FINAL

SITE CLOSURE REPORT

Prepared for:

DP011 Building 3 Drywell AOC
Former Griffiss Air Force Base
Rome, New York

Prepared for:

Air Force Civil Engineer Center
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LIST OF ACRONYMS AND ABBREVIATIONS

AFB	Air Force Base
AFCEC	Air Force Civil Engineer Center
AFRL	Air Force Research Laboratory
ARARs	Applicable or Relevant and Appropriate Requirements
AOC	Area of Concern
bgs	Below Ground Surface
CAPE	CAPE Environmental Management , Inc.
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	Contaminant of Concern
DP	Drainage Pit
FPM	FPM Remediations, Inc.
ft	feet
HI	Hazard Index
LUC/IC	Land Use Control/Institutional Controls
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NFA	No Further Action
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
RI	Remedial Investigation
ROD	Record of Decision
SI	Supplemental Investigation
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
TRPH	Total Recoverable Petroleum Hydrocarbons
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
WP	Work Plan

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1 Introduction

FPM Remediations, Inc. (FPM), in association with CAPE Environmental Management, Inc. (CAPE), was contracted by the Air Force Civil Engineer Center (AFCEC), to perform Land Use Control/Institutional Control (LUC/IC) site maintenance at the former Griffiss Air Force Base (AFB), New York. This report provides the site closure sampling results for sampling conducted at Drainage Pit (DP) 011 Building 3 Drywell Area of Concern (AOC). The work was conducted through contract number FA8903-10-D-8595-0014.

All work conducted at this site was performed in accordance with the former Griffiss AFB Uniform Federal Policy Quality Assurance Project Plan (UFP QAPP) (CAPE/FPM/AECOM, July 2011). Section 2 provides a site description, previous investigations, and proposed closure sampling activities.

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2 DP011 Building 3 Drywell AOC

2.1 Site Description

The Building 3 Drywell AOC is located in the center of the former Griffiss AFB on Air Force owned property [Parcel Air Force Research Laboratory (AFRL)-5] south of the Tank Farms 1 and 3 Source Removal AOC and northwest of the Building 20 AOC. Surface water drains to Six Mile Creek on the eastern side (drywell area) of the building and to Three Mile Creek on the western side. A drywell associated with the site was used to dispose of cleaning solvents, etching acids with metal salts, and paint thinners from 1960 to 1984 as stated in the Remedial Investigation (RI) (LAW, December 1996).

2.2 Previous Investigations

2.2.1 1987 Drywell Removal

The drywell associated with Building 3 was removed in 1987. During removal, surrounding soils were excavated. The excavation was completed at a depth of 10 feet (ft) below ground surface (bgs). Following excavation, one soil sample was collected and analyzed for toxicity characteristic metals. The results did not show detectable levels of metals. The soil sample was not analyzed for organic compounds.

2.2.2 1994 Remedial Investigation

The Building 3 Drywell AOC RI was conducted at the site in 1994. Groundwater and soil sampling were performed as part of the RI. The Building 3 Drywell AOC RI Report is included as Appendix A of this report. The objective of the RI was to determine if residual contamination was present in the subsurface soils and groundwater below the depth of the original drywell. Since the drywell was excavated and backfilled with clean soil in 1987, soil sampling for chemical analysis was not performed as it was deemed not necessary to satisfy the objective of the RI. In support of the RI two soil borings were completed and the soil samples collected were submitted for geotechnical analysis. In addition, groundwater samples were collected from each boring. Results indicated Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Target Analyte List (TAL) inorganics, hexavalent chromium, and total recoverable petroleum hydrocarbon (TRPH) detections. Two more groundwater samples were collected in November 1994 using a HydroPunch™ groundwater sampling tool. Four VOCs were detected in both samples; however the concentrations were not above New York State (NYS) Groundwater Standards. SVOCs, metals (11 exceedances), and TRPH were also detected in the groundwater samples. VOC and SVOC concentrations did not exceed Applicable or Relevant and Appropriate Requirements (ARARs).

In addition to the groundwater and soil sampling, a baseline risk assessment was also conducted as part of the RI. The baseline risk assessment evaluated the current and future (commercial/ administrative use) potential risks to human health and the environment associated with contaminants of concern (COCs) found in the groundwater at the site. Under commercial/administrative use, the potentially exposed future populations are utility and construction workers. However, the risks to these workers were not quantitatively addressed due to

the inability to collect soil samples from 6 to 8 ft bgs at the site. Soil samples were not collected at this interval because of poor recovery due to the presence of rocks and cobbles. It is important to note that soils up to 10 ft bgs were excavated as part of the drywell removal in 1987. One boring location was in the excavated area and one soil boring was slightly offset from the excavation.

A hypothetical groundwater exposure scenario was evaluated which assumes that future industrial workers may use the groundwater as a potable supply (LAW, December 1996). The total carcinogenic risk associated with exposure by industrial/commercial workers to contaminants in the groundwater was below the acceptable United States Environmental Protection Agency (USEPA) target risk range (1×10^{-6}). The hazard index (HI) was below the acceptable level of 1 (LAW, December 1996).

2.2.3 1997 Supplemental Investigation and Record of Decision

A vertical profile well (B3VMW-1) was installed and sampled as part of the Supplemental Investigation (SI) in 1997. Results showed the presence of VOCs and SVOCs; however no concentrations exceeded the most stringent criteria. During the ecological baseline risk assessment, no complete exposure pathways for ecological receptors were identified.

The ROD for the Building 3 Drywell AOC was issued by the Air Force in November 2004 and signed by the USEPA in March 2005. According to the ROD, the selected remedy for the Building 3 Drywell AOC is LUC/ICs for industrial/commercial use and groundwater use restrictions. The ROD is provided in Appendix B.

2.3 2011 Groundwater Sampling

Based on the 1994 RI and 1997 SI sampling results, one groundwater sample from the existing monitoring well B3VMW-1 was collected on December 7, 2011 in accordance with the Site Closure Sampling Work Plan for Building 3 Drywell Area (CAPE/FPM, November 2011). The groundwater sample was collected using low flow sampling procedures and analyzed for VOCs (using USEPA Method SW8260), SVOCs (using USEPA Method SW8270), and total and dissolved metals (using USEPA Method SW6010). The monitoring well location is illustrated in Figure 1. Daily Chemical Quality Control Report is provided in Appendix C. The complete list of analytes and the validated laboratory data are attached in Appendix D and the raw laboratory data are available in Appendix E.

The results were compared to the NYSDEC Division of Water Technical and Operational Guidance Series "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations", NYSDEC, June 1998 (NYSDEC Class GA Groundwater Standards). There were no VOC or SVOC detections above NYS Groundwater Standards. Additionally, there were no metals detections above NYS Groundwater Standards with the exception of sodium. Sodium was detected at 78,000 µg/L in the total metals analysis and 80,000 µg/L in the dissolved metals analysis. The NYS Groundwater Standard for sodium is 20,000 µg/L. The groundwater sampling results are provided in Table 1.

2.4 Conclusions and Recommendations

No further action at the site and removal of site LUC/ICs is recommended. The 5-gallon capacity drywell was removed, soils were excavated to 10 ft bgs, and the site was backfilled with clean soil in June 1987. The 1994 RI and 1997 SI reported VOCs, SVOCs, and metals present in groundwater at the site. Additional groundwater sampling was conducted in 2011. No VOCs, SVOCs, or metals exceedances were reported with the exception of sodium. This analyte is believed to be associated with road salting near the site as the well is within 30 ft of a heavily used road.

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3 References

CAPE/ FPM Remediations, Inc./ AECOM, *Uniform Federal Policy Quality Assurance Project Plan for the former Griffiss AFB, Rome, NY*, July 2011.

CAPE/ FPM Remediations, Inc., *Site Closure Sampling Work Plan for Building 3 Drywell Area of Concern at the Former Griffiss Air Force Base, Rome, NY*, November 2011.

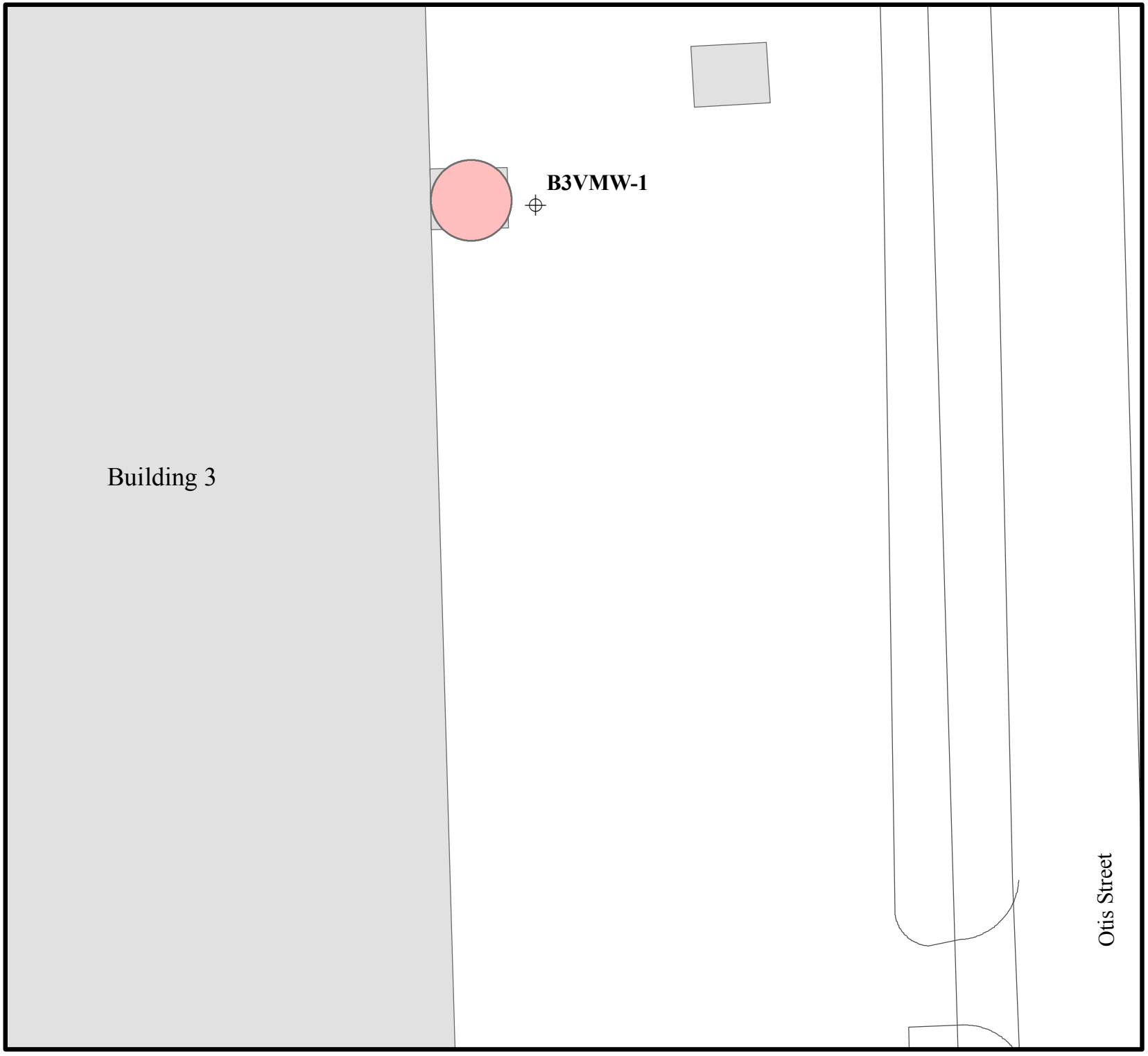
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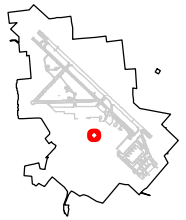
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FIGURES





Site Location

Legend

- Groundwater Monitoring Well
- Road
- Existing Facility
- Demolished Facility
- LUC/IC Site Boundary/Former Drywell Location and Excavation

0 5 10 20
Feet

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

Figure 1
DP011 (Building 3 Drywell AOC) Sampling Location

FPM Remediations, Inc CAPE

Y:\GIS_Projects\Griffiss\Projects\1015-11-01\B3_SampLocs.mxd

TABLES

Table 1
Building 3 Groundwater Sampling Results Table

Sample Location	**NYSDEC Class GA Groundwater Standards and Guidance Values (µg/L)**	**B3VMW-1**
Sample ID		**B03VM0114AA**
Date of Collection		**12/7/2011**
Sample Depth ft (TOIC)		**14**
VOCs (µg/L)		
1,1,1,2-tetrachloroethane	5*	U
1,1,1-trichloroethane	5*	0.33 J
1,1,2,2-tetrachloroethane	5*	U
1,1,2-trichloroethane	1	U
1,1-dichloroethane	5*	U
1,1-dichloroethene	5*	U
1,1-dichloropropene	5*	U
1,2,3-trichlorobenzene	5*	U
1,2,3-trichloropropane	0.04	U
1,2-dichloroethane	0.6	U
1,2,4-trichlorobenzene	5*	U
1,2,4-trimethylbenzene	5*	U
1,2-dibromoethane	5	U
1,2-dichlorobenzene	3	U
1,2-dichloropropane	1	U
1,2-dibromo-3-chloropropane	0.04	U
1,3-dichlorobenzene	3	U
1,3-dichloropropane	5*	U
1,4-dichlorobenzene	3	U
1,3,5-trimethylbenzene	5*	U
1-chlorohexane	--	U
2-hexanone	--	U
2-chlorotoluene	5	U
4-chlorotoluene	5	U
4-methyl-2-pentanone	--	U
2,2-dichloropropane	5*	U
acrylonitrile	--	U
acetone	50	U
benzene	1	U
bromobenzene	--	U
bromomethane	5*	U
bromochloromethane	5*	U
bromoform	50	U
bromodichloromethane	--	U
chlorobenzene	5	U

Table 1
Building 3 Groundwater Sampling Results Table

Sample Location	**NYSDEC Class GA Groundwater Standards and Guidance Values (µg/L)**	**B3VMW-1**
Sample ID		**B03VM0114AA**
Date of Collection		**12/7/2011**
Sample Depth ft (TOIC)		**14**
VOCs (µg/L)		
carbon tetrachloride	5	U
carbon disulfide	--	U
chloroethane	5*	U
chloroform	7	0.21 J
chloromethane	--	U
cis-1,2-dichloroethene	5*	U
dibromochloromethane	--	U
cis-1,3-dichloropropene	5*	U
dichlorofluoromethane	5*	U
dibromomethane	5*	U
ethylbenzene	5*	U
hexachlorobutadiene	0.5	U
isopropylbenzene	5*	U
methylene chloride	5*	0.52 J
methyl iodide	--	U
n-butylbenzene	5*	U
n-propylbenzene	5*	U
o-xylene	5*	U
naphthalene	10	U
m,p,-xylene (Sum of Isomers)	5*	U
p-isopropyltoluene	5*	U
sec-butylbenzene	5*	U
styrene	50	U
t-butylbenzene	5*	U
toluene	5*	U
tetrachloroethene	5*	U
trans-1,2-dichloroethene	5*	U
trans-1,3-dichloropropene	--	U
trichloroethlene	5	0.8 J
trichlorofluoromethane	5*	U
methyl tert butyl ether (MTBE)	10	U
2-butanone	--	U
vinyl chloride	2	U
vinyl acetate	--	U
cyclohexane	--	U
methyl cyclohexane	--	U

Table 1
Building 3 Groundwater Sampling Results Table

Sample Location	**NYSDEC Class GA Groundwater Standards and Guidance Values (µg/L)**	**B3VMW-1**
Sample ID		**B03VM0114AA**
Date of Collection		**12/7/2011**
Sample Depth ft (TOIC)		**14**
SVOCs (µg/L)		
1,2,4-Trichlorobenzene	5	U
1,2-Dichlorobenzene	3	U
1,3-Dichlorobenzene	3	U
1,4-Dichlorobenzene	3	U
2,4,5-Trichlorophenol	--	U
2,4,6-Trichlorophenol	--	U
2,4-Dichlorophenol	1	U
2,4-Dimethylphenol	1	U
2,4-Dinitrophenol	5	U
2,4-Dinitrotoluene	5	U
2,6-Dinitrotoluene	5	U
2-Chloronaphthalene	10	U
2-Chlorophenol	--	U
2-Methylnaphthalene	50	U
2-Methylphenol	--	U
2-Nitroaniline	5	U
2-Nitrophenol	--	U
3,3'-Dichlorobenzidine	5	U
3-Nitroaniline	5	U
4,6-Dinitro-2-methylphenol	--	U
4-Bromophenyl phenyl ether	--	U
4-Chloro-3-methylphenol	--	U
4-Chloroanaline	5	U
4-Chlorophenyl phenyl ether	--	U
4-Methylphenol	--	U
4-Nitroaniline	--	U
4-Nitrophenol	--	U
Acenaphthene	20	U
Acenaphthylene	--	U
Anthracene	50	U
Benzo(a)anthracene	0.002	U
Benzo(a)pyrene	--	U
Benzo(b)fluoranthene	0.002	U
Benzo(g,h,i)perylene	--	U
Benzo(k)fluoranthene	0.002*	U

Table 1
Building 3 Groundwater Sampling Results Table

Sample Location	**NYSDEC Class GA Groundwater Standards and Guidance Values (µg/L)**	**B3VMW-1**
Sample ID		**B03VM0114AA**
Date of Collection		**12/7/2011**
Sample Depth ft (TOIC)		**14**
SVOCs (µg/L)		
Benzoic Acid	--	U
Benzyl alcohol	--	U
Bis(2-chloroethoxy) methane	5	U
Bis(2-chloroethyl) ether	1	U
Bis(2-chloroisopropy) ether	--	U
Bis(2-ethylhexyl)phthalate	5	U
Benzyl butyl phthalate	--	U
Chrysene	0.002	U
Di-n-Butyl phthalate	50	U
Di-n-Octyl Phthalate	50	U
Dibenz(a,h)anthracene	--	U
Dibenzofuran	--	U
Diethylphthalate	50	U
Dimethyl phthalate	--	U
Fluoranthene	50	U
Fluorene	50	U
Hexachlorobenzene	0.04	U
Hexachlorobutadiene	0.5	U
Hexachlorocyclapentadiene	5	U
Hexachloroethane	5	U
Indeno(1,2,3-c,d)pyrene	0.002	U
Isophorone	50	U
n-Nitrosodi-n-Propylamine	--	U
N-Nitrosodiphenylamine	50	U
Naphthalene	--	U
Nitrobenzene	5	U
Pentachlorophenol	1	U
Phenanthrene	50	U
Phenol	1	U
Pyrene	50	U

Table 1
Building 3 Groundwater Sampling Results Table

Sample Location	**NYSDEC Class GA Groundwater Standards and Guidance Values (µg/L)**	**B3VMW-1**
Sample ID		**B03VM0114AA**
Date of Collection		**12/7/2011**
Sample Depth ft (TOIC)		**14**
Metals (µg/L) [Total]		
aluminum	2,000	160 J
antimony	3	0.3 J
arsenic	25	0.21 J
barium	1,000	36
berylium	3	U
boron	1,000	22 J
cadmium	5	0.088 J
calcium	--	88,000
chromium	50	3.5 J
cobalt	--	0.19 J
copper	200	1.1 J
iron	300	190
lead	25	0.18 J
magnesium	35,000	9,200
manganese	300	20
molybdenum	--	0.79 J
nickel	100	1.1 J
potassium	--	3,700
selenium	10	U
silver	50	0.019 J
sodium	20,000	**78,000**
thallium	0.5	0.072 J
vanadium	--	0.49 J
zinc	2,000	2.2 J
mercury	1	U

Table 1
Building 3 Groundwater Sampling Results Table

Sample Location	**NYSDEC Class GA Groundwater Standards and Guidance Values (µg/L)**	**B3VMW-1**
Sample ID		**B03VM0114AA**
Date of Collection		**12/7/2011**
Sample Depth ft (TOIC)		**14**
Metals (µg/L) [Dissolved]		
aluminum	2,000	U
antimony	3	0.15 J
arsenic	25	U
barium	1,000	33
berylium	3	U
boron	1,000	26 J
cadmium	5	U
calcium	--	89,000
chromium	50	1.6 J
cobalt	--	0.079 J
copper	200	U
iron	300	U
lead	25	U
magnesium	35,000	9,200
manganese	300	U
molybdenum	--	0.71 J
nickel	100	0.53 J
potassium	--	3,600
selenium	10	U
silver	50	0.017 J
sodium	20,000	**80,000**
thallium	0.5	0.063 J
vanadium	--	U
zinc	2,000	U
mercury	1	U

Table 1
Building 3 Groundwater Sampling Results Table

Sample Location	**NYSDEC Class GA Groundwater Standards and Guidance Values (µg/L)**	**B3VMW-1**
Sample ID		**B03VM0114AA**
Date of Collection		**12/7/2011**
Sample Depth ft (TOIC)		**14**
Field Parameters		
pH (-)	NA	6.97
conductivity (mS/cm)	NA	0.752
DO (mg/L)	NA	5.17
ORP (mV)	NA	214
Turbidity (NTU)	NA	11.1
Temperature (° Celsius)	NA	15.92

Notes:
F - The analyte was detected above the MDL, but below the RL.
B- The analyte was also detected in a blank.
J - The analyte was positively identified; the quantition is an estimation.
NA - Not Applicable
U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
BOLD and shaded grey - The analyte was detected above NYS Groundwater Standards.
TOIC - top of inside casing.
NYSDEC Class GA Groundwater Standards and Guidances as per TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values.
(--) There is No standard associated with this compound.

APPENDIX A

913 0 File: 17-C-10
M.M.

GRIFFISS AFB
NEW YORK

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 943

913 1
File: M.M. 17A-62
AIR 943

UNITED STATES AIR FORCE

GRIFFISS AIR FORCE BASE
NEW YORK

DRAFT-FINAL PRIMARY REPORT

VOLUME 17
REMEDIAL INVESTIGATION
BUILDING 3 DRYWELL
AREA OF CONCERN

11-2588-0211

DECEMBER 1996

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CONTRACT NO. DACA41-92-D-8001
JREZ NO. 92-0082

VOLUME 17

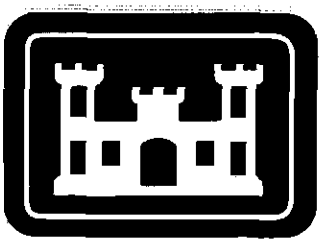
DRAFT-FINAL PRIMARY REPORT

REMEDIAL INVESTIGATION
BUILDING 3 DRYWELL AREA OF CONCERN

GRIFFISS AIR FORCE BASE, NEW YORK

Prepared For:

U.S. Army Corps of Engineers
Kansas City District
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Kennesaw, Georgia 30144

DECEMBER 1996

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7.1 Proposed Supplemental Investigation

1.0 BACKGROUND AND HISTORY

This section of the Remedial Investigation (RI) report describes the physical location and site characteristics of the Building 3 Drywell Area of Concern (AOC) and summarizes the site's history and previous uses.

The Building 3 Drywell AOC is located in the central portion of the base (Figure 1.1). The site is located approximately 400 feet south (downgradient) of the Tank Farms 1 and 3 Source Removal AOC and 800 feet north-northwest of the Lot 69 and Building 20 AOCs. The drywell at Building 3 was located at the east side of the building adjacent to a liquid nitrogen aboveground storage tank. The area in which the drywell was located is presently covered with gravel.

The drywell was used from the 1960s to 1984 to dispose of cleaning solvents (1 to 5 gallons per day); etching acids with metal salts (less than 2 gallons per day); and paint thinner, methanol, acetone and trichloroethylene (less than 1 gallon per day) from the industrial shop located within Building 3. The drywell was an open-bottomed earthen cylinder with a 5-gallon capacity. In June 1987, the drywell and contaminated soils were excavated. Records reviewed regarding the drywell removal included the contractual Statement of Work for the project, a Site Plan and Detail sheet noting activities required for the project, progress reports for the project, and the laboratory analytical data for one soil sample analyzed for the Extraction Procedure (EP) Toxicity Characteristic for metals.

The Statement of Work for the project "Decontaminate Drywell Building 3" dated May 16, 1986, listed the following activities pertinent to the drywell removal:

1. Removal of bituminous pavement around existing abandoned acid disposal drywell and contaminated bituminous pavement adjacent to building near electrical transformer enclosure.

2. Hand excavate, test (EP Toxic), and containerize contaminated soil in area of drywell. The EP Toxic test was to be performed on a representative sample of the soil for soil disposal purposes.

3. Backfill excavated material, 6-inch lifts, compacted. All backfill material to be free of stones larger than one inch in any dimension.

4. Disconnect and cap plumbing leading to drywell.

The notes for the Site Plan and Detail sheet dated May 28, 1986, noted the following actions to be performed:

1. Disconnect existing exterior waste line
2. Remove 5-gallon earthenware acid retention tank
3. Excavate contamination area 10 feet deep
4. Cap exterior waste line at the building exterior wall
5. Backfill area with satisfactory material

The contract file indicated that the work had been completed. No field notes or as-built drawings of the excavation were submitted by the contractor, so there is no detailed information about the actual extent of excavation performed. A soil sample analyzed for EP Toxicity Characteristic metals from this site on August 14, 1987, after excavation of the drywell, did not indicate detectable levels of metals (Table 1.1) (UNC, 1988). This soil sample was not analyzed for organic compounds.

In accordance with the Federal Facility Agreement and Resolution of Disputes between the U.S. Air Force (USAF), U.S. Environmental Protection Agency, Region II (EPA) and the New York State Department of Environmental Conservation (NYSDEC), an RI was performed at this AOC to evaluate the nature, levels, and extent of potential contamination at the site and perform a baseline risk assessment to evaluate the potential effects of chemicals of potential concern (COPCs) on human health and the environment. The following sections overview the field investigations performed at the AOC during the RI, report the results of the investigations, present the baseline risk assessment, and provide conclusions and recommendations for this site based on the data and risk assessment. Background information pertaining to Griffiss AFB and the RI is presented in Volume 1.

2.0 SITE-SPECIFIC INVESTIGATIONS

The following sections describe the field sampling program performed at the Building 3 Drywell AOC. The field investigation activities included the following:

- Drilled two soil borings to ground water near the abandoned drywell
- Collected three soil samples for geotechnical analysis from the soil borings
- Collected one grab ground-water sample from each soil boring
- Abandoned the soil borings
- Performed topographic and sample location surveys

The boring locations are shown on Figure 2.1. The procedures for soil sampling, visual soil classification, drilling, borehole abandonment, grab ground-water sample collection, and the methods used for geotechnical analysis are described in Volume 1 of the RI report.

2.1 SURFACE FEATURE INVESTIGATION

Topographic and location surveys were performed by Whitfield Engineering, Inc., at the Building 3 Drywell AOC. The topographic survey established elevations at 2-foot intervals and the location survey established horizontal and vertical coordinates for each soil boring. The elevation of the site is shown on Figure 2.1; topographic contour lines are not depicted on Figure 2.1, because the site is flat with less than 1 foot of relief.

2.2 CONTAMINANT SOURCE INVESTIGATION

The contaminant source includes the solvents, etching acids, and paint thinners disposed in the drywell from the 1960s to 1984. A visual site reconnaissance was performed at the Building 3 Drywell AOC in May 1992 to determine the scope of the field investigations for this RI.

2.3 SOIL AND SHALLOW GROUND-WATER INVESTIGATIONS

The following sections describe the investigations performed that involved the subsurface soil and ground-water conditions.

2.3.1 Soil Boring Drilling and Sampling

Two soil borings, designated B3SB-1 and B3SB-2, were drilled by Parratt-Wolff, Inc., to ground water at Building 3 on April 26 and 27, 1994. Soil boring B3SB-1 was drilled in the area of the former drywell, between the footer of Building 3 and the liquid nitrogen tank. Auger refusal was encountered in this boring at 3 feet below ground surface (bgs), and the offset boring was designated B3SB-1A (shown as B3SB-1 on Figure 2.1). Boring B3SB-2 was drilled at the southeast corner of the nitrogen tank and the northeast corner of Building 5869. The boring was relocated in the field due to the inaccessibility of the proposed boring location (too close to the buildings). The boring logs for this AOC are presented in Appendix A.

The subsurface soil sample for chemical analysis planned for the 6- to 8-foot depth interval of B3SB-1A could not be collected because of poor recovery from the split spoon sampler due to the presence of gravel and cobbles. In consultation with oversight personnel, offsetting the soil boring was determined to be unfeasible due to access constraints. Also in consultation with oversight personnel, a surface soil sample was proposed but it was decided that a surface soil sample would not satisfy the objective of determining the presence or absence of residual subsurface contamination from the drywell. The drywell at Building 3 was excavated and backfilled with clean soil in June 1987. The purpose of this investigation was to determine if any residual contamination remained below the depth of the original drywell. Therefore, neither a surface soil sample from B3SB-1A nor a subsurface soil sample from B3SB-2 (offset from the original drywell location) would satisfy this objective.

One soil sample from the 4- to 6-foot bgs sample interval in boring B3SB-1A was submitted for geotechnical analysis. Two soil samples, one from the 2- to 4-foot sample interval and one from the 8- to 10-foot sample interval, from boring B3SB-2 were submitted for geotechnical analysis. The results are presented in Appendix B.

2.3.2 Grab Ground-Water Sampling

Two grab ground-water samples, one from each boring, were collected on April 27, 1994, using a HydroPunch™ II ground-water sampling tool. The grab ground-water samples were designated B3HP-1 and B3HP-2. The samples were submitted to RECRA Environmental, Inc., (RECRA) for chemical

analysis for the parameters listed on Table 2.1. The analytical parameters and methods are listed on Table 2.2. The borings were abandoned after sampling.

Two additional grab ground-water samples were collected from borings drilled adjacent to the original borings on November 15, 1994. These samples were submitted to Lancaster Laboratories, Inc., (Lancaster) for cyanide analysis; the original grab ground-water samples were inadvertently not analyzed for cyanide. The borings were abandoned after sampling.

3.0 SITE-SPECIFIC PHYSICAL CHARACTERISTICS

The following sections describe the geological and hydrological properties which were evaluated during the investigation at the Building 3 AOC.

3.1 SITE SETTING

Building 3 is located in the central portion of the base with less than 1 foot of relief. The site is located in the center of the base industrial complex.

3.2 SURFACE-WATER HYDROLOGY

Building 3 is located along a surface-water divide, with run-off from the west portion of the site draining to Threemile Creek and run-off from the east portion of the site, including the former drywell area, draining to Sixmile Creek. The site is located approximately 2,000 feet northwest of Threemile Creek, and approximately 5,520 feet northeast of Sixmile Creek.

3.3 SOILS

Based on field descriptions of soils encountered in soil boring B3SB-1A, the upper 2 feet of soil consist of silty, fine to medium sand with gravel below 0.25 to 0.5 feet of asphalt. The subsurface soils in boring B3SB-1A were described as silty sands from 2 to 4 feet bgs and sandy gravels and gravelly sands from 4 to 12 feet bgs (boring completion). The geotechnical analysis of the 4- to 6-foot sample from the soil boring classifies the soil as poorly graded gravel with silt and sand. The soil profile in boring B3SB-1A represents fill material placed after the drywell was excavated.

The subsurface soils encountered in boring B3SB-2 were described as silty sand from 2 to 9 feet bgs and gravelly sand from 9 to 12 feet bgs (boring completion). The geotechnical analysis of the 2- to 4-foot sample classifies the soil as poorly graded gravel with silt and sand and the 8- to 10-foot sample as well graded gravel with sand. The field descriptions of geotechnical classifications of the soil samples collected for geotechnical analysis are provided in Table 3.1.

3.4 STRATIGRAPHY

Since only two soil borings were drilled at Building 3 and the soils are not considered to be representative of the soils in the area, a cross section was not prepared for this AOC.

3.5 HYDROGEOLOGY

The ground-water zone investigated at Building 3 exists under unconfined conditions within the unconsolidated aquifer. The saturated zone at Building 3 was encountered at depths ranging from 8 feet bgs to 8.5 feet bgs in the soil borings. No monitoring wells have been installed at the Building 3 AOC.

As generated by the three-point triangulation method, Figure 3.1 depicts the ground-water flow direction of the surficial aquifer in the vicinity of Building 3 as to the south/southwest.

The hydraulic conductivities for the wells installed for the RI were input into the numerical ground-water flow model, presented in the On-Base Ground-Water Contamination AOC, and average hydraulic conductivities were modelled for the areas in and around base relative to each other. These values are used to determine the ground-water flow rate in the Building 3 area.

The hydraulic conductivity of the surficial aquifer at Building 3 was estimated to be 30 feet/day (ft/day), or 0.021 feet/minute (ft/min) from the basewide numerical ground-water model. Based on the hydraulic conductivity of 0.021 ft/min, the modeled ground-water gradient of 0.0015 ft/ft, and effective porosity of 20 percent from literature, the rate of ground-water flow at Building 3 was estimated to be 82.8 ft/year using the Darcy flow equation:

$$V = \frac{K(i)}{n_e} \times 525{,}600$$

where:

V	=	average ground-water flow velocity, in ft/yr
K	=	average hydraulic conductivity, in ft/min
i	=	hydraulic gradient, in ft/ft
525,600	=	number of minutes in a year (conversion factor)
n_e	=	effective porosity (expressed as a decimal

4.0 NATURE AND EXTENT OF CONTAMINATION

This section contains information on the nature and extent of contamination at the Building 3 AOC. Information is presented on sampling program results, analytical results, and interpretation of analytical results grouped by sample media. The discussion in this section focuses on the chemicals which were detected at concentrations greater than the potential applicable or relevant and appropriate requirements (ARARs), to-be-considered (TBC) criteria, and background screening levels. The ARARs, TBCs, and background screening levels are presented and defined in Volume 1.

4.1 CONTAMINANT SOURCES

The drywell at Building 3 was used from the 1960s to 1984 to dispose of cleaning solvents, etching acids with metal salts, paint thinner, methanol, acetone, and trichloroethylene from the industrial shop in Building 3. The drywell, an open-bottomed earthen cylinder with a 5-gallon capacity, was removed in 1987.

4.2 SAMPLING PROGRAM AND ANALYTICAL RESULTS

This section of the report provides results for the sampling and analytical program. Subsurface soil samples could not be collected as planned due to poor recovery from the split spoon sampler. The results of a 1987 soil investigation involving analysis for inorganics at the Building 3 Drywell are reported in Section 1.0. The results of the 1987 soil investigation did not indicate detectable concentrations of metals in EP Toxicity Leachate samples of soils from the drywell excavation (Table 1.1).

Ground-water samples were collected from two locations, B3HP-1 and B3HP-2, on April 27 and November 15, 1994 (Figure 2.1). Chemical analyses were performed in order to determine the concentration of analytes as described in Tables 2.1 and 2.2. There were no previous investigations of ground water at Building 3.

The analytes detected in the Building 3 ground-water samples are reported in Table 4.1. Table 4.2 summarizes the detection of analytes that exceeded the most stringent potential ARAR or TBC and/or were greater than the background screening levels in ground water at the two sample locations.

The complete analytical results for samples collected from this site are provided in Appendix C. The results of the data quality evaluation for the grab ground-water samples collected at the Building 3 AOC were provided in the "RI Analytical Data Technical Memorandum No. 2," dated October 1994 (LAW, 1994a).

Four volatile organic compounds were detected (chloroform, tetrachloroethylene, 1,1,1-trichloroethane, and trichloroethylene) in the grab ground-water samples from locations B3HP-1 and B3HP-2. Concentrations of volatiles ranged from 0.24 µg/L for tetrachloroethylene to 2.0 µg/L for trichloroethylene. None of the detected concentrations exceed the most stringent potential ARAR or TBC. There was no apparent difference in the concentrations detected in the two samples.

Seven semi-volatile organic compounds were detected in the grab ground-water samples at Building 3 AOC. Each of the semi-volatile organic compounds were detected at estimated concentrations below the practical quantitation limit (PQL) and did not exceed potential ARARs.

A total of 21 metals were detected (11 of which exceeded potential ARARs or TBCs, and 18 of which exceed background screening levels) in ground water at Building 3 AOC. The detected concentrations of most metals analytes, including aluminum, chromium, iron, and lead, were higher in sample B3HP-2 than in B3HP-1. Soil boring B3SB-2 is located approximately 6 feet southeast of soil boring B3SB-1, the former drywell, and a liquid nitrogen storage tank. Concentrations of metals are typically elevated in grab ground-water samples. Grab ground-water samples are more turbid than ground-water samples from a monitoring well because they are not collected from a well which has been developed and purged prior to sampling. Because of this turbidity, concentrations of metals in grab ground-water samples are elevated, sometimes several orders of magnitude, above concentrations in ground-water samples collected from monitoring wells. The results of a statistical analyses performed comparing metals concentrations in grab ground-water samples to those in samples obtained from monitoring wells is presented in Volume 1, Section 2.17.6.3. This evaluation of the data indicated a statistically significant difference between metals concentrations in grab ground-water samples and monitoring well ground-water samples.

Total recoverable petroleum hydrocarbons were detected in both samples at the Building 3 AOC. Sample B3HP-1, taken from the location of the former drywell, contained a higher concentration of petroleum hydrocarbons (10.1 mg/L) than sample B3HP-2 (1.1 mg/L). Concentrations in both samples exceeded the NYSDEC Ground-Water Standard of 0.1 mg/L. Note that petroleum hydrocarbons are regulated as a group of Unspecified Organic Compounds (UOCs) and thus have a NYSDEC MCL of 0.1 mg/L.

5.0 CHEMICAL FATE AND TRANSPORT

This section discusses fate and transport mechanisms that may affect chemicals of potential concern identified in ground water at Building 3.

Chemical persistence and potential routes of chemical migration are based primarily on the physical and chemical characteristics of individual chemicals and their degradation products, as well as site-specific geological, hydrological, and chemical conditions. Physical and chemical properties for individual constituents are discussed in Volume 1 of this RI Report.

As discussed in Section 3, the subsurface soils consisted mainly of sandy gravels and gravelly sands. Ground water was encountered between 8 and 8.5 feet bgs at this location. Due to the relatively impermeable nature of the underlying bedrock, ground-water flow and constituent migration should be restricted to the overlying gravelly sands and sandy gravels. The following sections describe the chemicals present at this location, and address potential migration routes for groups of chemicals having generally similar transport characteristics.

5.1 METALS

A total of 11 metals were identified in the ground water at concentrations above potential ARARs. These included aluminum, arsenic, barium, beryllium, chromium, copper, iron, lead, manganese, nickel, and zinc. The potential for migration of these metals depends on the solubility of their various forms in ground water. Metals in solution will exist in an ionic form, whereas non-ionic forms tend to precipitate and bind to soil and sediments. Metals in soluble form, and not bound to the soil, may be expected to migrate with ground water.

Metals present in the soils tend to sorb to the soil and natural organics, and form metallic hydroxide precipitates. A variety of factors, including pH, determine whether or not these metals will be mobilized in soil. Most metals present in soils with a pH range of 5 to 8 will be present as insoluble metal hydroxides. The metals will remain in their predominantly insoluble form unless soil and/or ground-water conditions change. For acidic and basic solutions, the solubility of metal ions in solution increases significantly. Acidic soil conditions, as caused by acid rain, may promote the leaching of metals from

the soil. The metal species may then be transported with the water or undergo a series of ion exchange reactions with other compounds or elements.

Water at this location was within the anticipated pH range of most ground waters, 6.5 to 7.5. This pH is within the pH range where most metals are insoluble and does not support conditions where metals could be present at concentrations greater than their solubility. Since the water samples at this location were collected as grab ground water and had high turbidity, the elevated metals concentrations are probably a result of the turbidity and do not represent actual ground-water conditions.

5.2 VOLATILE ORGANIC COMPOUNDS

As a class, volatiles exhibit a wide range of solubility in water. The volatile organic compounds identified in ground water at this location included chloroform, tetrachloroethylene, trichloroethylene, and 1,1,1-trichloroethane. None of the VOCs exceeded potential ARARs. However, the results from Total Recoverable Petroleum Hydrocarbon (TRPH) test exceeded the potential ARAR for TPHs. Based on the analytical results for volatiles and semi-volatiles, there is no evidence to support the concentrations of 1.1 to 10.1 mg/L of petroleum-based compounds. TRPH results are obtained through 418.1 methodology. Natural products, including plant waxes, are sometimes measured as part of the TRPH. As a result, the data may actually be biased high and does not necessarily indicate contamination.

Vertical and horizontal transport in the aqueous phase of the soil-water interface is a possible transport process of volatile organic compounds. As a class, volatiles exhibit a wide range of solubility in water. Organic chemicals move in the ground-water system by advection and dispersion, and transport is retarded by adsorption, hydrophobic partitioning and biological and chemical degradation. All of these factors influence the direction and rate of transport as well as the ultimate fate of organic contaminants in a ground-water system. Since none of the volatiles identified at this site exceeded potential ARARs, there is a low potential for off-site impact.

5.3 SEMI-VOLATILE ORGANIC COMPOUNDS

Seven semi-volatile organic compounds were detected in ground water, none at concentrations exceeding potential ARARs. Semi-volatile organics are expected to remain adsorbed to soil particles in unsaturated

soils. In saturated soils, the soluble semi-volatile organics are available for transport with ground-water flow.

Ground-water flow is normally linear with no vertical mixing by turbulence or convection as in surface water. As a result, the downward dispersion of soluble constituents is only by molecular diffusion and by downward displacement as new water enters at the water table (Farmer, 1983). Like volatiles, semi-volatile organic compounds also move in the ground-water system by advection and dispersion. Adsorption, hydrophobic partitioning and biological and chemical degradation act as retardation factors. Since none of the semi-volatiles identified at this site exceeded potential ARARs, there is a low potential of off-site impact.

6.0 BASELINE RISK ASSESSMENT

A baseline risk assessment was conducted for the Building 3 AOC to determine whether chemicals detected at the site pose a risk to human and/or ecological receptors. This assessment consisted of three components: (1) data evaluation, (2) human health risk assessment, and (3) ecological risk assessment. Analytical results collected at the AOC indicate that volatile organic compounds (volatiles); semi-volatile organic compounds (semi-volatiles), and petroleum hydrocarbons were detected in grab ground-water samples collected from 2 soil borings at the site.

6.1 DATA EVALUATION

Analytical data for grab ground-water samples collected from the Building 3 AOC were evaluated for use in the human health and ecological risk assessments, using the analytical data quality evaluation methodologies outlined in the risk assessment methodology presented in Volume 1 of this report. The ground-water samples obtained during the RI were analyzed using EPA- and NYSDEC-approved methods. The appropriate and required data quality evaluation procedures were employed throughout the evaluation process. The laboratory quality control (QC) procedures for calibration, method validation, and performance evaluation included such procedures as analysis of method blanks, matrix spike/matrix spike duplicate (MS/MSD) analyses, analysis of laboratory control samples, and assessment of surrogate analytes.

6.1.1 Analytical Methods and Quantitation Limits

The analytical data used for the risk assessment were obtained from EPA-approved methods incorporating additional quality assurance (QA) procedures to meet the requirements for definitive data as listed in the Data Quality Objectives Process for Superfund (EPA, 1993a). According to EPA's Guidance for Data Useability in Risk Assessment (Part A) (EPA, 1992a), such data are appropriate for assessing risk as well as the nature and extent of site contamination.

The practical quantitation limit (PQL) is the lowest concentration that can be reliably assessed given the limits of precision and accuracy of routine laboratory operations and conditions. The PQL is generally five to ten times greater than the method detection limit. During the planning process for the RI, the

PQLs were compared to chemical-specific potential ARARs and TBC criteria for soil and ground water to determine whether the analytical methods used were sensitive enough for regulatory review. These comparisons are presented in Appendix L of the RI Work Plan (LAW, 1993). The laboratory PQLs used for analysis of chemicals at the site were at or below the most stringent ARARs and/or TBCs except for a few chemicals analyzed by EPA Method 524.2 in aqueous media. Specifically, the PQLs for the analysis of acrylonitrile and 1,1,2,2-tetrachloroethane in ground water by EPA Method 524.2, exceeded the most stringent regulatory criteria identified (NYS Ground-Water Standards). These exceedances are due to the fact that available analytical methods are not sensitive enough to meet the most stringent regulatory criteria for compounds mentioned above.

The sample quantitation limit (SQL) is a sample-specific detection limit that accounts for sample characteristics, sample preparation, and analytical adjustments such as dilution. The SQL's for samples analyzed from the Building 3 AOC were consistent with the PQLs established during the planning process.

6.1.2 Data Qualification

The data quality indicators which were evaluated during the data quality evaluation process included sample integrity, holding times, method blanks, internal standards, surrogate recoveries, MS/MSD recoveries, matrix spike blank recoveries, and duplicate precision. Analytical results associated with noncompliant QC indicators were assigned with the appropriate qualifiers. Based on the results of the data quality evaluation process, sample results were considered acceptable as presented, qualified as estimates ("J" flag), or rejected ("R" flag).

As a component of the data evaluation process, chemical concentrations in laboratory and field blanks were analyzed to validate analytical results. If common laboratory contaminants were detected in samples at concentrations less than 10 times the amount measured in associated blanks, or if other "uncommon" laboratory contaminants were detected in samples at concentrations less than five times the amount reported in any associated blank, the results are flagged "U." Chemicals qualified in this manner are considered nondetect results. Duplicate samples (i.e., QC samples) collected at the Building 3 AOC were utilized in the risk assessment. They were not, however, considered as individual data points. Rather, the highest value in the sample or its duplicate was selected for calculations of exposure point

concentrations. The results of the data quality evaluation process were summarized in the "RI Analytical Data Technical Memorandum No. 2" (LAW, 1994a).

Positively detected data with no flags, nondetect data with "U" flags, and estimated data with "J" flags were used in the risk assessment. However, rejected data with "R" flags and "U"-flagged data for chemicals that were not detected in at least one sample in a particular medium were not used in the risk assessment. In cases where the chemical was detected in at least one other sample, "U" qualified data were incorporated into the calculation of the exposure point concentration through use of one-half the SQL as a surrogate value for nondetect results.

6.1.3 Summary of Data Evaluation

The grab ground-water samples from the Building 3 AOC were collected and analyzed in accordance with EPA's Functional Guidelines (EPA, 1988a,b; 1991) and EPA Region II data quality evaluation protocols (EPA, 1992b,c). The analytical results which were considered acceptable as presented (no flags) and the estimated results ("J" flags) were considered acceptable for use in the baseline risk assessment. The "U"-flagged data were also considered acceptable for use in the baseline risk assessment if there was at least one positive detection of the chemical in a medium. The rejected analytical results ("R" flags) were not used in the baseline risk assessment. The analytical data for the Building 3 AOC are presented in Appendix C (Table C.1) and the sampling locations are identified on Figure 2.1.

6.2 HUMAN HEALTH EVALUATION

The purpose of the human health evaluation was to establish whether contaminants present at the Building 3 AOC could pose a potential health risk to individuals under current and foreseeable future land uses in the absence of remediation. The human health evaluation consisted of the following components: identification of chemicals of potential concern, exposure assessment, toxicity assessment, risk characterization, and uncertainty evaluation.

6.2.1 Identification of Chemicals of Potential Concern

The results of the data collection and data evaluation efforts are presented in this section. Based on the results of the data evaluation, a subset of chemicals present at the site were selected as chemicals of potential concern (COPCs) for the human health and ecological risk assessments. The COPCs at this AOC were identified in accordance with the general procedures for COPC selection presented in Volume 1 of the RI Report. The COPC selection is summarized in Table 6.1.

Chemicals were not selected as COPCs if they were essential human nutrients (iron, magnesium, calcium, potassium, and sodium), or if the maximum sample concentration was less than the background screening concentrations (metals only). Chemicals detected in less than 5 percent of the total samples were also excluded from the risk assessment unless they were class A carcinogens. Total recoverable petroleum hydrocarbons (TRPH) were not selected as a COPC because of a lack of toxicity data for this mixture of chemicals and the uncertainties associated with the analytical method used (see Volume 1 for additional discussion). However, any of the individual constituents of TRPH detected at the site (e.g., benzene, toluene, xylenes, PAHs, etc.) were selected as COPCs and included in the quantitative risk evaluation.

Grab Ground Water

For the purpose of evaluating exposure to ground water, it is assumed that future industrial workers may be exposed to grab ground water at the site should ground water be used as a potable water supply in the future. The analytical data from 2 grab ground-water samples collected during the RI at the Building 3 AOC comprised the grab ground-water data set.

Table 6.1 summarizes the chemicals detected in the grab ground-water samples and the COPCs selected. A total of 11 COPCs were detected in ground water including 4 volatiles and 7 semi-volatiles. Grab ground-water sampling locations are presented on Figure 2.1.

Soil

For the purpose of evaluating exposure to soils, it is assumed that future utility and construction workers may be exposed to residual contamination in the subsurface soils if excavation were to occur at the site.

However, due to poor recovery from the split spoon because of a high percentage of gravel and cobbles in the soil boring, no soil sample could be collected for chemical analysis at this site. Therefore, no COPCs were identified for the soils because no analytical data are available.

It is important to note that soils up to 10 feet bgs were excavated as part of the drywell removal action in 1987. Therefore, no residual soil contamination is expected at this site. However, for the reasons described above, no confirmatory samples could be collected to either prove or disprove this point. This data gap will be addressed in the Uncertainties Evaluation of this risk assessment (Section 6.2.5).

Summary

The COPCs selected for grab ground water at the Building 3 AOC are as follows: chloroform, 1,1,1-trichloroethane, tetrachloroethene, trichloroethene, anthracene, 2,4-dichlorophenol, fluorene, N-nitrosodiphenylamine, phenanthrene, pyrene, and simazine.

6.2.2 Exposure Assessment

Under existing and proposed future land use scenarios for the Building 3 AOC, receptors may be at risk through potential exposure to residual contamination in soils and ground water. The following sections describe present and potential future land uses at the Building 3 AOC, medium-specific exposure pathways, exposure point concentrations, and pathway-specific intakes for the COPCs. The exposure parameters and intake equations used for estimating risks through exposure pathways identified for this AOC are presented in Volume 1. A subset of these exposure parameters was used for the Building 3 AOC and are presented in Appendix D.

6.2.2.1 Characterization of Exposure Setting

The physical characteristics of the site which may impact potential exposure include climate, vegetation, soil type, and hydrology. The hydrology, geology, stratigraphy, and hydrogeology of this AOC are discussed in Section 3.0 of this volume. The climate and vegetation are discussed in Volume 1.

6.2.2.2 Potentially Exposed Populations

The human populations residing at and/or working in the vicinity of the AOC are discussed in the following sections. Demographic information for Griffiss AFB and surrounding areas can be found in Volume 1.

AOC and Vicinity

Building 3, a former industrial shop, is located in the central part of Griffiss AFB. The drywell was reportedly used for the disposal of cleaning solvents, methanol, acetone, and trichloroethylene, etching acid solutions, salt containing wastes, and paint thinner. The drywell was formerly located on the east side of the former industrial shop and consisted of an open-bottomed earthen cylinder of 5-gallon capacity.

Following base realignment, this AOC is assumed to be part of a research and development complex. Accordingly, the future land use for this AOC will be commercial/administrative. Personnel are expected to continue working in this building and in nearby facilities. However, these people are not expected to be exposed to potential contaminants previously placed in the drywell adjacent to Building 3 because the drywell and surrounding soils were removed during remedial activities performed in 1987. If, however, contaminated soils were not completely removed during previous remedial activities at this AOC, construction workers may be exposed to constituents present in subsurface soils if the site were to undergo development in the future. Consequently, construction and utility workers, therefore, are considered potentially affected human receptors who could be potentially exposed to residual soil contamination through incidental ingestion, dermal absorption, inhalation of fugitive dusts, and inhalation of volatile emissions.

Current Land Use

The current land use designation for the Building 3 Drywell is industrial. People are currently employed in Building 3 and neighboring facilities.

Future Land Use

According to the Griffiss Redevelopment Planning Council (GRPC) redevelopment scenario, the area that encompasses this AOC is recommended for commercial/administrative use (LAW, 1994b). Under this scenario, the potentially exposed future populations are utility and construction workers working at the site. The risks to utility and construction workers arising from potential exposure to contaminants detected in subsurface soils will not be quantitatively addressed in this risk assessment because no soil samples could be collected at the site due to excess cobbles.

In addition, a hypothetical ground-water exposure scenario will be evaluated which assumes that future industrial workers may use the ground water at this site as a potable water supply. Future industrial workers could be exposed to contaminants in ground water via ingestion, dermal contact and inhalation of volatiles.

6.2.2.3 Identification of Exposure Pathways

Exposure pathways for this AOC are identified in the conceptual site model (CSM) presented in Figure 6.1. Exposure to residual contamination at this AOC may occur through several pathways. The media evaluated for potential impact on human health are the subsurface soil and ground water. In the following sections, the potential exposure pathways for the Building 3 Drywell AOC are identified.

Sources and Receiving Media

The most probable sources of contamination associated with Building 3 derive from residual soils remaining at the site after excavation of the drywell. The drywell and surrounding soils were removed during the remedial actions performed in 1987. Contaminants released into the drywell may have infiltrated surrounding soils and percolated through deep soils to ground water. Should subsurface soils be exposed at this site, residual soil contaminants remaining at the site after excavation of the drywell may be released to the air as fugitive dusts or volatile emissions.

Fate and Transport in Release Media

The purpose of the fate and transport evaluation is to identify the possible extent and magnitude of environmental contamination and to identify environmental media potentially affected. The fate and transport of analytes detected in site media are discussed in Section 5.0. The primary environmental transport pathways for chemicals detected at the site is through infiltration and percolation to deep soils and ground-water movement. Ground water in the area of Building 3 flows toward Threemile Creek located approximately ½ mile south of the site. However, the impact of constituents on surface waters and sediments would be diminished due to dilution and degradative processes prior to discharge to surface waters. Contaminants released to the atmosphere as fugitive dust and volatile emissions may be transported through air over considerable distances. Fugitive dust and volatile emissions are likely to occur during intrusive activities at or near the location of the former drywell.

6.2.2.4 Exposure Points and Exposure Routes

Because contaminants historically released in the Building 3 AOC would likely impact subsurface soil and percolate to deep soil and ground water, persons who come into contact with these media are likely to be affected by site contaminants. Accordingly, occupational receptors, (including industrial workers), are the most probable target populations because their work may involve future use of site ground water as process water. This hypothetical use of ground water as industrial process water or as a source of potable water for industrial workers was considered for this AOC in the event that future industrial use of this site will include use of ground water beneath the site as a water supply. Industrial workers could potentially be exposed to chemicals in ground water through ingestion, dermal contact, and inhalation of volatiles if ground water is used for process water.

6.2.2.5 Quantification of Exposure

Potential exposure is quantified by estimating exposure point concentrations and calculating pathway-specific intakes. Intake variables and exposure point concentrations are selected so that the combination of all variables results in an estimate of reasonable maximum exposure (RME) for each pathway. In the event that the RME exposure results in a hazard index greater than 1 or an excess cancer risk value

greater than 1 x 10^{-4}, the risk is then quantified based on central tendency values as discussed in Volume 1, Section 5.1.7 of the RI Report.

Estimation of Exposure Point Concentrations

The maximum detected concentration of COPCs were used as the exposure point concentration for grab ground water because the data set was limited to less than 10 samples (i.e., only 2 samples in the ground-water data set). The maximum ground-water concentrations were used directly as the exposure point concentration for the ingestion and dermal contact exposure pathways. For the inhalation of volatiles from industrial use of ground water (e.g., washing vehicles), ambient air concentrations were estimated using the maximum ground-water concentration and a conversion factor of 6.29 x 10^{-3}L/m^3. The conversion factor is based on the Simple Box Model and the conservative assumption that 100 percent of the volatiles in ground water will be released to the air (see Figure 5-10 from Volume 1 which is duplicated as Table D.4 in Appendix D). A more detailed discussion on the methods used in calculation of exposure point concentrations is provided in Volume 1 of the RI Report.

Pathway-Specific Intake Estimates

The values for each exposure parameter and the assumptions used in their derivation (e.g., frequency and duration of exposure), as well as intake values for each exposure pathway evaluated, are presented in Volume 1 as well as in Appendix D of this document. The pathway-specific intakes used are incorporated into Tables D.1 through D.3 which are presented in Appendix D.

Dermal Contact Exposure Estimates

Dermal exposures to analytes in water were adjusted to absorbed dose estimates using chemical-specific permeability constants (Kp values) and absorption coefficients, respectively. The permeability constants used to calculate absorbed dose(s) through dermal contact with contaminated ground water were obtained either from the EPA's guidance document Dermal Exposure Assessment; Principles and Applications or calculated using equations provided in this document (EPA, 1992d). The permeability constants, as well as the equations used in the derivation of those that were not available in the guidance document, are

provided in Table 5.3a of Volume 1. The permeability coefficient (Kp values) for compounds detected in grab ground water at the Building 3 AOC are also provided in Table D.3 of Appendix D.

6.2.2.6 Summary of Exposure Assessment

Three potential exposure scenarios were evaluated in this risk assessment for the Building 3 AOC. Two potential exposure scenarios are evaluated qualitatively in this risk assessment. These scenarios, which cannot be quantified due to lack of analytical data, include:

1. Occupational Worker - Utility Worker (Future)

   - Incidental ingestion of soils
   - Dermal contact with soils
   - Inhalation of fugitive dust

2. Occupational Worker - Construction Worker (Future)

   - Incidental ingestion of soils
   - Dermal contact with soils
   - Inhalation of fugitive dust

3. Occupational Worker - Industrial Worker (Future)

   - Ingestion of ground water
   - Dermal contact with ground water
   - Inhalation of volatiles from ground water

The exposure pathways for each scenario were developed under the assumption that land use for this AOC will remain commercial/administrative following base realignment. The future industrial worker is included in the risk assessment to evaluate hypothetical future exposures to ground water. It is assumed that this individual works inside an industrial facility or shop and thus exposure to soil would be minimal, as compared to the other occupational receptors.

6.2.3 Toxicity Assessment

The toxicity assessment provides information regarding the potential for a specific chemical to cause adverse effects in humans and characterizes the relationship between the dose of a chemical and the incidence of adverse health effects in the exposed population. The systemic and carcinogenic effects of chemicals are evaluated based on reference doses (RfDs) and cancer slope factors. The following sections describe toxicity values used to evaluate potential risks from exposure to chemicals detected at the site.

6.2.3.1 Toxicity Values for Noncarcinogenic and Carcinogenic Effects

The EPA has developed toxicity values that reflect the magnitude of the adverse noncarcinogenic and carcinogenic effects from exposure to specific chemicals. The toxicity values for COPCs detected in site soil and ground water were obtained from the Integrated Risk Information System (IRIS, 1996). If the toxicity values were not provided in IRIS, secondary sources included the Health Effects Assessment Summary Tables for 1995 (HEAST, 1995) and the National Center for Environmental Assessment (NCEA, 1996). Available toxicity values for COPCs detected at the site are incorporated into Tables D.1 through D.3 of Appendix D. Brief toxicological profiles for each COPC are provided in Volume 1.

Toxicity values were not available for phenanthrene. The potential risks from exposure to this chemical is evaluated qualitatively in Section 6.2.4.3.

Noncarcinogenic Effects

Chronic RfDs were used for the evaluation of noncarcinogenic effects because potential exposure is likely to occur over an extended period of time.

Carcinogenic Effects

Several constituents detected in grab ground water at the Building 3 AOC are considered human carcinogens or potential suspected human carcinogens. Cancer slope factors were available for most of the carcinogenic COPCs detected.

6.2.3.2 Toxicity Assessment of Dermal Exposures

Currently, no RfDs or cancer slope factors are available for the dermal route of exposure. The oral RfDs and cancer slope factors may be adjusted by chemical-specific gastrointestinal absorption values, resulting in absorbed-dose RfDs or cancer slope factors (EPA, 1989). Based on the recommendations of EPA Region II, the oral toxicity values (RfDs and cancer slope factors) were not adjusted because of lack of adequate data to determine gastrointestinal absorption (EPA, 1995). Thus, the oral RfDs and cancer slope factors were used for quantitation of dermal exposure for all analytes (i.e., assuming 100 percent absorption from the gastrointestinal tract identified as COPCs for this site).

6.2.4 Risk Characterization

The risk characterization integrates the results of exposure and toxicity assessments into quantitative and qualitative expressions of risk associated with exposure to COPCs. Risks that a particular type of receptor (e.g., industrial workers) might experience are determined by combining the relevant pathways with appropriate exposure factors into a risk scenario. Quantitative estimates of carcinogenic risk and noncarcinogenic benchmark values have been calculated for the Building 3 AOC. Risk estimates were calculated using the maximum detected concentrations of COPCs identified in grab ground water. Pathway risk estimates were summed by medium (e.g., ground-water exposures equal the sum of ingestion, inhalation of volatiles, and dermal contact) to obtain the total risk from exposure by a given receptor. The chronic hazard index estimates and carcinogenic risks for the potentially exposed populations (i.e., industrial workers) are presented in Appendix D, Tables D.1 through D.3.

6.2.4.1 Noncarcinogenic Health Effects Characterization

The benchmark level for evaluating noncarcinogenic effects, according to the EPA, is a hazard index (HI) of 1.0. A hazard index of 1.0 or less indicates that exposure to potential contaminants is not expected to result in adverse noncarcinogenic health effects. The potential noncarcinogenic health effects arising from exposure to grab ground water at the Building 3 AOC are summarized below.

Industrial Workers (Grab Ground Water)

The cumulative hazard index for industrial workers exposed to grab ground water was 0.006 (Table 6.2). This cumulative hazard index is below the benchmark value of 1.0. The calculated hazard indices for ingestion of ground water, dermal exposure to ground water, and inhalation of volatiles released from ground water were 0.005, 0.0005, and 0.000002, respectively (Tables D.1 through D.3).

6.2.4.2 Carcinogenic Risk

The National Contingency Plan (NCP) defines the target risk range for exposure to carcinogenic compounds as an excess upper bound lifetime risk within the range 10^{-4} to 10^{-6}. This translates to one excess cancer in a population of ten thousand to one excess cancer in a population of one million. Potential risks from exposure to carcinogens at the Building 3 AOC were evaluated for industrial workers. The potential carcinogenic risks from exposure to grab ground water at the Building 3 AOC are summarized below.

It is important to note that the cancer risk estimates quantified in the risk assessment are upper bound estimates. That is, a cancer risk of 2×10^{-4} means that if 1,000,000 people were exposed to site-related contaminants, most likely fewer than 200 people might be expected to develop cancer as a specific consequence of the exposure.

Industrial Workers (Grab Ground Water)

The cumulative carcinogenic risk from exposure to contaminants in grab ground water by industrial workers is 2×10^{-7} (Table 6.2). Therefore, the carcinogenic risk from exposure to contaminants in ground water by industrial workers is within the EPA's target risk range. The pathway-specific risks from ingestion, inhalation of volatiles released from ground water, and dermal exposure to ground water were 2×10^{-7}, 1×10^{-8} and 2×10^{-8}, respectively (Tables D.1 through D.3).

6.2.4.3 Qualitative Evaluation of Risk

Toxicity values were not available for phenanthrene and, it was not possible therefore, to perform a quantitative assessment of the potential risk arising from exposure to this compound detected at the Building 3 AOC. Thus, this compound is discussed qualitatively in this section on the basis of the results of analysis for all of the grab ground-water samples collected at the Building 3 AOC.

Phenanthrene was detected in 1 of 2 grab ground-water samples at a concentration of 0.00012 mg/L. This concentration is below the most stringent potential ARAR for ground water of 0.005 mg/L (NYS Ground-Water Standards). Phenanthrene is reported to cause lung tumors in rats, but there is no evidence that this compound may induce cancer in humans (IRIS, 1996).

Based on the results of the ground-water investigations at the Building 3 AOC, possible exposure to detected concentrations of phenanthrene is unlikely to pose a health hazard to industrial receptors. This chemical is below the NYS Ground-Water Standards of 0.005 mg/L which is a default value for Principal Organic Compounds (POCs).

Two exposure scenarios could only be evaluated qualitatively due to the lack of analytical data for soils. Future utility workers and construction workers could be exposed to residual contamination in subsurface soils, if any, during excavation activities at the site. The drywell and upper 10 feet of soils at the drywell location were removed in 1987. The water table was encountered between 8 and 8.5 feet bgs in the soil borings at this site. Thus, it is unlikely that any residual contamination remains in the soils above the water table. Therefore, the potential risks to utility and construction workers from exposure to soils at this site are expected to be minimal because the contaminated soils were removed.

6.2.5 Uncertainties Evaluation

Uncertainty exists in many areas of the human health assessment. However, use of conservative variables in intake calculations and conservative assumptions throughout the risk assessment results in an assessment that is protective of human health. A summary of uncertainties in the risk assessment process is included in Table 6.3. A detailed discussion of the uncertainties inherent in the risk assessment process

is provided in Volume 1. The site-specific uncertainties for the baseline risk assessment for the Building 3 AOC are identified below.

Uncertainties Associated with Exposure Assessment

- In quantifying exposure, it was assumed that chemicals are uniformly distributed over a defined area. At this AOC, chemical samples were collected from the suspected source(s) of contamination. Areas thought to be free of contamination were not investigated. Data collected in this manner, rather than through random sampling, result in a biased data set which may overestimate risk.

- Exposure point concentrations in air were derived using an EPA-approved model: the Simple Box Model. As discussed in Section 5.1 of Volume 1 of the RI Report, the inherent assumptions and input parameters used in these models are likely to overestimate exposure point concentrations and, ultimately, the calculated risk through the inhalation pathway.

- It was assumed that ground water would be used for industrial purposes in the future. This is very unlikely since the site has ready access to the existing water supplies at the base and in the city of Rome which are more than adequate for industrial purposes.

- Subsurface soil samples could not be collected from the two soil borings due to excessive cobblestones at the AOC. This is a data gap which resulted in the soil pathway not being quantified in this risk assessment.

- The ground water collected to characterize the Building 3 Drywell AOC consisted of two grab samples collected with a HydroPunch™. Analytical samples collected in this manner are typically very turbid. This results in reported analytical concentrations that are most likely elevated, particularly for metals. As discussed in Volume 1, the metals results for grab ground-water samples are not included in the baseline risk assessment because they are not representative of metals in the ground water.

Uncertainties Associated with Toxicity Assessment

- Inhalation RfDs and cancer slope factors were unavailable for several chemicals detected in site ground water. The risks of potential exposure to compounds of unknown toxicity could not be quantified. This may result in an underestimation of the overall risk.

- Toxicity values were not available for one COPC at this site: phenanthrene. This may result in an underestimation of the overall risk.

While some of the uncertainties identified above may underestimate the potential risks from exposure to ground water at the Building 3, overall the use of conservative assumptions throughout the risk assessment results in an assessment that is protective of human health.

6.2.6 Summary of the Baseline Risk Assessment

The analytical data used in the risk assessment were acquired and evaluated according to approved EPA procedures. The data were deemed suitable for the needs of the risk assessment. The risk assessment was performed on grab ground-water data collected from 2 soil borings advanced at the Building 3 AOC. According to the Griffiss Redevelopment Planning Council, the current industrial use of land at this AOC is expected to remain unchanged following base realignment.

The exposure scenarios were developed based on assumed current and future commercial/administrative land use at the Building 3 AOC. Occupational receptors (future industrial workers) were identified as populations potentially exposed to ground water. Potential exposure pathways identified for ground water included ingestion, dermal contact, and inhalation of volatiles released from ground water. Future utility workers and construction workers could be exposed to residual contaminants in soil, if any, via incidental ingestion, dermal contact, and inhalation of fugitive dust.

The cumulative carcinogenic risk associated with the industrial worker exposure scenario was 2×10^{-7} which is below EPA's target risk range. Carcinogenic risks were not calculated for soil because no samples could be collected at the site due to excessive cobbles in the soil.

The cumulative noncarcinogenic hazard indices for all ground-water exposure pathways for the industrial workers were below the benchmark level of 1.0. The ground-water ingestion pathway was the greatest contributor to the cumulative hazard index of 0.006 for grab ground water with a hazard index of 0.005. A hazard index could not be calculated for soils at the site because excessive cobbles at the site prevented sampling in the area.

The results of the human health baseline risk assessment indicate that chemicals detected in grab ground water should not present a risk to future industrial workers. Risks to future utility and construction workers from exposure to soils could not be quantified but are expected to be minimal because a removal

action was completed in 1987. Moreover, the quantitative evaluation of risk is subject to several conservative assumptions and should not be considered as an absolute quantitative measure of risk.

6.3 ENVIRONMENTAL EVALUATION

This section evaluates the potential for adverse impacts to ecological receptors at the base due to contamination at the Building 3 Drywell site. The methodology for this evaluation is presented in Volume 1 of the RI.

6.3.1 Identification of Chemicals of Concern

No soil samples were obtained and analyzed as part of the RI. The drywell and surrounding soils were excavated in 1987. Therefore, no surface soil contamination would be expected to remain at this site.

Neither surface-water bodies nor sediments are associated with this AOC and, therefore, COPCs were not identified and no environmental assessment was conducted for these media at the Building 3 AOC.

6.3.2 Exposure Assessment

Building 3 is located within a highly developed portion of the base, with little habitat available for ecological receptors. Contamination that may be associated with the site is expected to be well below ground surface, underneath the building. In addition, future land use is expected to be commercial/ administrative. Therefore, potential exposures related to this AOC are not considered to exist for ecological receptors.

There are no plant or animal species at the base or in the immediate vicinity of the base that are considered threatened or endangered by the U.S. Department of the Interior (50 CFR 17). Though some plant species present at the base are protected in the state of New York, these species have not been found in this portion of the base. Therefore, threatened and/or endangered species are not considered to be a concern at this AOC.

6.3.3 Conclusions, Limitations, and Uncertainties

Risks to ecological receptors due to contamination at this AOC have not been quantitatively assessed because no complete exposure pathways exist. Therefore, risks are considered to be virtually nonexistent. If it were discovered that surface soil surrounding the Building 3 Drywell was contaminated, this conclusion would need to be reevaluated.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The purpose of this section of the RI report is to briefly summarize the site background, scope of the field investigation, site characteristics, nature and extent of contamination, and the baseline risk assessment and to provide recommendations as to whether no further action, removal action(s), feasibility study, or additional field investigation is needed at the Building 3 Drywell AOC.

7.1 SUMMARY AND CONCLUSIONS

Site Background

- Building 3 is located in the central portion of the base. The drywell at this building was located on the east side of the building adjacent to a liquid nitrogen aboveground storage tank. The area in which the drywell was located is presently covered with gravel.
- The Building 3 Drywell was used from the 1960s through 1984 to dispose of cleaning solvents and etching acids from the industrial shop. In June 1987, the drywell and contaminated soils were removed. The analytical results for EP leachate samples from the confirmatory sampling conducted in August 1987 did not indicate elevated concentrations of metals. Volatile and semi-volatile organic compounds were not analyzed for in the confirmatory soil samples.

Scope of Field Investigations

- Two soil borings were drilled to ground water near the former drywell location.
- One grab ground-water sample was collected from each boring using the HydroPunch™ sampler.
- The subsurface soil sample, planned for collection from 6 to 8 feet bgs in B3SB-1, could not be collected because of poor recovery from the split spoon sampler due to gravel and cobbles.

Site Characteristics

- Building 3 is located along a surface-water divide; run-off from the west portion of the site drains to Threemile Creek and run-off from the eastern portion of the site, including the former drywell location, drains to Sixmile Creek.

- Subsurface soils encountered at Building 3 were described as silty sands from 2 to 4 feet bgs and sandy gravels to gravelly sands from 4 to 12 feet bgs.

- The saturated zone was encountered at depths ranging from 8 to 8.5 feet bgs in the soil borings at this site. Ground water flows to the south/southwest towards Threemile Creek.

Nature and Extent of Contamination

- Volatile organic compounds detected in the grab ground-water samples were 1,1,1-trichloroethane, chloroform, tetrachloroethene, and trichloroethene. The detected concentrations ranged from 0.24 μg/L for tetrachloroethene to 2.0 μg/L for trichloroethene. None of the detected concentrations exceeded potential ARARs.

- Semi-volatile organic compounds detected included 2,4-dichlorophenol, anthracene, fluorene, n-nitrosodiphenylamine, phenanthrene, pyrene, and simazine. All of the detected concentrations were estimated concentrations below the PQL. None of the detected concentrations exceeded potential ARARs.

- Eleven metal analytes were detected at concentrations which exceeded potential ARARs. Eighteen metals were detected at levels exceeding background screening levels. However, it must be noted that the grab ground-water samples were collected using the HydroPunch™ sampler and were turbid. Therefore, the metals concentrations for these samples are biased high due to turbidity rather than site-related contamination.

- Petroleum hydrocarbons (as TRPH) were detected in both grab ground-water samples at concentrations ranging from 1.1 mg/L to 10.1 mg/L, exceeding the NYSDEC standard of 0.1 mg/L.

Baseline Risk Assessment

- The baseline risk assessment assumed future commercial/administrative land use for this site which is the use projected by the GRPC re-use plan. Potential exposure pathways identified include utility and construction workers exposed to

surface and subsurface soils via ingestion, inhalation of fugitive dusts, and dermal contact.

- Exposures to chemicals of potential concern in ground water were evaluated for a future industrial worker using the ground water as a potable water supply. Exposures via ingestion, dermal contact and inhalation of volatile emissions were evaluated.

- The cumulative hazard index for ground-water exposures was 0.006 which is below the benchmark level of 1.0. The estimated lifetime excess cancer risk for ground-water exposures was 2×10^{-7} which is below the EPA's target risk range.

- Potential risks from exposure to soils at this site could not be quantified because no soil sample could be collected for chemical analysis. However, it should be noted that the contaminated soils were excavated when the drywell was removed in 1987. Therefore, risks from exposure to soils are considered to be unlikely.

- Building 3 is located in the developed portion of the base where there is little habitat available for ecological receptors. Thus, the potential exposures for ecological receptors are considered minimal.

7.2 RECOMMENDATIONS

- No further action is recommended at this site based on the results of the environmental sampling and the risk assessment.

- The absence of analytical results for a soil sample from this site is not considered to be a significant data gap because the contaminated soils were excavated when the drywell was removed in 1987. Confirmatory soil samples collected at that time did not indicate elevated concentrations of metals.

- In addition, no organic chemicals were detected in the ground water at concentrations exceeding potential ARARs; therefore, the soils do not appear to be a continuing source of ground-water contamination.

7.3 SUPPLEMENTAL INVESTIGATIONS

Based on the comments received from the regulators on the Draft RI reports, the USAF will perform supplemental investigations at the Building 3 Drywell AOC to address the data gaps identified above. The supplemental investigations to be performed at this AOC include the installation of a ground-water monitoring well adjacent to the former drywell location. Soil samples will be collected at 10-foot intervals to bedrock for field screening. One ground-water sample will be collected from the well and

analyzed for volatiles and semi-volatiles. The supplemental investigations, which are summarized in Table 7.1 and Figure 7.1, describe in more detail in the work plan which was submitted under separate cover (E & E, 1996).

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TAB

Tables

Table 1.1: Maximum Concentration of Inorganics in Residual Soil After Drywell Excavation at Building 3 on August 14, 1987 Building 3 Drywell Remedial Investigation Griffiss Air Force Base, Rome, New York

PARAMETER	EXTRACTION PROCEDURE TOXICITY CHARACTERISTIC LEACHATE CONCENTRATION (mg/L)
Arsenic	<0.001
Barium	<0.3
Cadmium	<0.005
Chromium	<0.05
Lead	<0.1
Mercury	<0.0004
Selenium	<0.001
Silver	<0.05

NOTES: mg/L = milligrams per liter
< = less than

Reference: UNC, 1988.

PREPARED/DATE: DLG 6/29/95
CHECKED/DATE: LAS 7/12/95

Table 2.1: Summary of Samples Collected for Chemical Analysis[a]
Building 3 Drywell Remedial Investigation
Griffiss AFB, Rome, New York

Matrix	Samples Collected	Date Sampled	Laboratory[b]	Volatiles	Semi-Volatiles	TAL Inorganics	Hexavalent Chromium	Cyanide	TRPH
Grab Ground Water	B3-HP-1	04/27/94	R	1	1	1	1	0	1
	B3-HP-1	11/15/94	L	0	0	0	0	1	0
	B3-HP-2	04/27/94	R	1	1	1	1	0	1
	B3-HP-2	11/15/94	L	0	0	0	0	1	0
	B3-HP-1MS	04/27/94	R	1	1	1	1	0	1
	B3-HP-1MD	04/27/94	R	1	1	1	1	0	1
	B3-HP-2-01	04/27/94	R	1	1	1	1	0	1
	B3-HP-2-01	11/15/94	L	0	0	0	0	1	0
	TB-1	04/27/94	R	1	0	0	0	0	0

(a) Analytical methods for each matrix are presented in Table 2.2.
(b) Laboratories: R - RECRA Environmental, Inc.; L - Lancaster Laboratories, Inc.

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CHECKED/DATE: LAS 7/12/95

Table 2.2: Analytical Parameters and Methods
Building 3 Drywell Remedial Investigation
Griffiss Air Force Base, Rome, New York

PARAMETER	METHODS	
	SOIL	WATER
TCL Organics:		
Volatiles	-	EPA 524.2
Semi-Volatiles	-	EPA 525.1
TAL Inorganics:		
Metals by ICP	-	SW3005/6010
Metals by GFAA		
Antimony	-	SW3005/7041
Arsenic	-	SW3020/7060
Lead	-	SW3020/7421
Molybdenum	-	SW3020/7480
Selenium	-	SW3020/7740
Thallium	-	SW3020/7841
Mercury by CVAA	-	SW7470
Hexavalent Chromium:	-	SW7195
Total Cyanide	-	SW9012
TRPH:	-	EPA 418.1

CVAA = Cold Vapor Atomic Absorption
GFAA = Graphite Furnace Atomic Absorption
ICP = Inductively Coupled Argon Plasma
TAL = Target Analyte List
TCL = Target Compound List
TRPH = Total Recoverable Petroleum Hydrocarbons

PREPARED/DATE: DLG 6/29/95
CHECKED/DATE: LAS 7/12/95

Table 3.1: Summary of Soil Properties
Building 3 Drywell Remedial Investigation
Griffiss Air Force Base, Rome, New York

Boring No.	Depth Interval (feet bgs)	Field Description*	Geotechnical (USCS) Classification and Description
B3SB-1A	4 to 6	Fine to coarse sandy GRAVEL, and silty fine sand	POORLY GRADED GRAVEL with SILT and SAND (GP-GM)
B3SB-2	2 to 4	Silty, fine to coarse SAND with coarse gravel	POORLY GRADED GRAVEL with SILT and SAND (GP-GM)
B3SB-2	8 to 10	Fine to coarse SAND with gravle and trace to no silt	WELL GRADED GRAVEL with SAND (GW

NOTE:

* - Field descriptions included on this table are for the soil sample intervals submited for geotechnical analysis.

PREPARED/DATE: JLB 7/5/95
CHECKED/DATE: GPM 7/20/95

Table 4.1: Detection of Analytes in Grab Ground-Water Samples
Building 3 Drywell Remedial Investigation
Griffiss Air Force Base, Rome, New York

Sample I.D.	B3-HP-1	B3-HP-1 *	B3-HP-2	B3-HP-01 (1)	B3-HP-2 *	B3-HP- (2)
Sample Date	04-27-94	11-15-94	04-27-94	04-27-94	11-15-94	11-15-94
METHOD: EPA 524.2						
VOLATILES: (µg/L)						
1,1,1-Trichloroethane	0.82	--	0.82	0.77	--	--
Chloroform	1.1	--	1.1	1.0	--	--
Tetrachloroethene	0.24 J	--	0.26 J	0.25 J	--	--
Trichloroethene	2.0	--	2.0	2.0	--	--
METHOD: EPA 525.1						
SEMI-VOLATILES: (µg/L)						
2,4-Dichlorophenol	1.1 U	--	0.016 J	1.1 U	--	--
Anthracene	0.011 J	--	2.2 U	2.2 U	--	--
Fluorene	0.024 J	--	0.0089 J	5.6 U	--	--
N-nitrosodiphenylamine	0.070 J	--	0.030 J	4.4 U	--	--
Phenanthrene	0.12 J	--	0.036 J	0.046 J	--	--
Pyrene	0.047 J	--	0.0089 J	5.6 U	--	--
Simazine	5.6 U	--	0.046 J	5.6 U	--	--
METALS: (mg/L)						
Aluminum (3005/6010)	3.3 J	--	140 J	14.7 J	--	--
Arsenic (3020/7060)	0.0050	--	0.027	0.0080	--	--
Barium (3005/6010)	0.073	--	1.2	0.66	--	--
Beryllium (3005/6010)	0.0030 U	--	0.0050	0.0030 U	--	--
Calcium (3005/6010)	79.9	--	306	170	--	--
Chromium (3005/6010)	0.010 U	--	0.27	0.028	--	--
Cobalt (3005/6010)	0.010 U	--	0.21	0.080	--	--
Copper (3005/6010)	0.039	--	1.1	0.19	--	--
Hexavalent Chromium (7195)	0.014	--	0.010 U	0.011	--	--
Iron (3005/6010)	11.7	--	613	44.0	--	--
Lead (3020/7421)	0.014	--	0.26	0.086	--	--
Magnesium (3005/6010)	7.8	--	82.6	15.7	--	--
Manganese (3005/6010)	2.8	--	58.0	30.5	--	--
Mercury (7470)	0.00040 U	--	0.00075	0.00050	--	--
Molybdenum (3020/7480)	0.050 J	--	0.080 J	0.050 U	--	--
Nickel (3005/6010)	0.030 U	--	0.66	0.31	--	--
Potassium (3005/6010)	2.6	--	17.0	2.8	--	--
Sodium (3005/6010)	17.1	--	17.7	16.8	--	--
Strontium (3005/6010)	0.23	--	0.80	0.43	--	--
Vanadium (3005/6010)	0.010 U	--	0.31	0.010 U	--	--
Zinc (3005/6010)	0.060	--	1.6	0.25	--	--
WET CHEMISTRY : (mg/L)						
Total Recoverable Petroleum Hydrocarbons (418.1)	10.1 J	--	1.1 J	0.93 J	--	--

* Samples collected on November 15, 1994 were analyzed for total cyanides only.
(1) = Duplicate of B3-HP-2 (04-27-94)
(2) = Duplicate of B3-HP-2 (11-15-94)

µg/L = micrograms per liter
mg/L = milligrams per liter
J = Estimated concentration
U = Analyte not detected
-- = Analyte not analyzed

PREPARED/DATE: DLG 6/29/95
CHECKED/DATE: LAS 7/12/95

Table 4.2: Frequency of Detection and Exceedance of Potential ARARs or TBCs for Grab Ground-Water Samples
Building 3 Drywell Remedial Investigation
Griffiss Air Force Base, New York

Parameter	Frequency of Detection	Range of Detected Concentrations	Comparison to Potential ARARs and TBCs: Frequency of Detection Above Most Stringent	Comparison to Potential ARARs and TBCs: Most Stringent Criterion	Comparison to Backgrou: Frequency of Detection Above Background	Backg ind Scre g Concentratio
Volatiles (µg/L)						
1,1,1-Trichloroethane	2/2	0.82 – 0.82	0	5.0	--	N
Chloroform	2/2	1.1 – 1.1	0	7.0	--	N
Tetrachloroethylene	2/2	0.24 J – 0.26 J	0	0.7	--	NA
Trichloroethylene	2/2	2.0 – 2.0	0	3.0	--	NA
Semi-Volatiles (µg/L)						
2,4-Dichlorophenol	1/2	0.016 J	0	1.0	--	N
Anthracene	1/2	0.011 J	0	50.0	--	NA
Fluorene	2/2	0.0089 J – 0.024 J	0	50.0	--	NA
n-Nitrosodiphenylamine	2/2	0.03 J – 0.07 J	0	50.0	--	N
Phenanthrene	2/2	0.046 JB – 0.12 J	0	50.0	--	N
Pyrene	2/2	0.0089 J – 0.047 J	0	50.0	--	N
Simazine	1/2	0.046 J	0	4.0	--	NA
Metals (mg/L)						
Aluminum	2/2	3.3 J – 140 J	2	0.05	2	0.
Arsenic	2/2	0.005 – 0.027	1	0.025	1	0.00 U
Barium	2/2	0.073 – 1.2	1	1.0	2	0.057
Beryllium	1/2	0.005	1	0.003	0	0.008 U
Calcium	2/2	79.9 – 306	--	NA	2	7
Chromium, hexavalent	2/2	0.011 – 0.014	0	0.05	0	0.
Chromium, total	1/2	0.27	1	0.05	1	0.02 U
Cobalt	1/2	0.21	--	NA	1	0.02 U
Copper	2/2	0.039 – 1.1	1	0.1	2	0.01 U
Iron	2/2	11.7 – 613	2	0.3	2	0.
Lead	2/2	0.014 – 0.26	1	0.015	2	0.0
Magnesium	2/2	7.8 – 82.6	--	NA	1	14
Manganese	2/2	2.8 – 58	2	0.05	2	0.14
Mercury	1/2	0.00075	0	0.002	1	0.00021
Molybdenum	2/2	0.05 J – 0.08 J	--	NA	2	0.0
Nickel	1/2	0.66	1	0.1	1	0.0
Potassium	2/2	2.6 – 17	--	NA	1	12
Sodium	2/2	17.1 – 17.7	0	20	0	23
Strontium	2/2	0.23 – 0.8	--	NA	2	0.
Vanadium	1/2	0.31	--	NA	1	0.0
Zinc	2/2	0.06 – 1.6	1	0.3	2	0.0
Wet Chemistry (mg/L)						
Petroleum Hydrocarbons	2/2	1.1 J – 10.1 J	2	0.1	--	N

NA – Not available or not applicable
J – Estimated concentration
U – Analyte not detected at indicated detection limit

PREPARED/DATE: DLG 6/29/95
CHECKED/DATE: LAS 7/1/ 5

Table 6.1: Selection of Chemicals of Potential Concern Detected in Grab Ground-Water Samples
Building 3 Drywell Remedial Investigation
Griffiss Air Force Base, Rome, New York

Parameter (a)	Frequency of Detection	Range of Detected Concentrations (b)	Background Screening Concentration
VOLATILES (µg/L):			
* Chloroform	2/2	1.1-1.1	NA
* 1,1,1-Trichloroethane	2/2	0.82-0.82	NA
* Tetrachloroethene	2/2	0.24 J-0.26 J	NA
* Trichloroethene	2/2	2.0-2.0	NA
SEMI-VOLATILES (µg/L):			
* Anthracene	1/2	0.011 J	NA
* 2,4-Dichlorophenol	1/2	0.016 J	NA
* Fluorene	2/2	0.0089 J-0.024 J	NA
* N-Nitrosodiphenylamine	2/2	0.03 J-0.07J	NA
* Phenanthrene	1/2	0.12 J	NA
* Pyrene	2/2	0.0089 J-0.047 J	NA
* Simazine	1/2	0.046 J	NA
WET CHEMISTRY (mg/L):			
Petroleum Hydrocarbons	2/2	1.1 J-10.1 J	NA

(a) * Denotes Chemical of Potential Concern (COPC)
(b) - Based on chemical results for two grab ground-water samples (B3-HP-1 and B3-HP-2)
J - Indicates an estimated value
NA - Not applicable

PREPARED/DATE: COK 6/29/95
CHECKED/DATE: LAS 7/12/95

Table 6.2: Summary of Occupational Human Health Risks – Future Industrial Worker Exposure Scenario
Building 3 Drywell Remedial Investigation
Griffiss Air Force Base, Rome, New York

Pathway	Adult HQ	Chemical(s) Driving (a) Noncarcinogenic Hazard	Industrial Worker Lifetime Excess Cancer Risk	Chemical(s) Driving Risk (a)
GROUND WATER				
Ingestion	0.005	--	2E-07	--
Inhalation of volatiles	2E-06	--	1E-08	--
Dermal Contact	0.0005	--	2E-08	--
Total for Ground Water	0.006		2E-07	
TOTAL FOR ALL PATHWAYS	0.006		2E-07	

-- Not applicable or available
(a) Chemicals contributing cancer risk > $1x10^{-6}$ and/or HQ>1 are listed.

PREPARED/DATE: EFC 8/13/96
CHECKED/DATE: SRT 8/13/96

Table 6.3: Evaluation of Uncertainties
Building 3 Drywell Remedial Investigation
Griffiss Air Force Base, Rome, New York

ASSUMPTIONS	POTENTIAL EFFECT ON RISK: May Overestimate	POTENTIAL EFFECT ON RISK: May Underestimate
Environmental Sampling and Analysis:		
Probability of insufficient samples taken to characterize ground water at the site	X	X
Subsurface soil samples could not be collected to confirm removal action		X
Fate and Transport of Constituents:		
Use of an industrial use of ground water model to estimate concentrations of volatiles in air	X	
No degradation or dispersion of contaminants assumed for estimating future exposure point concentrations	X	
Exposure Pathways and Parameters:		
Possible future change in land use assumptions	X	X
Standard exposure parameters may not be respresentative of the actual exposed population	X	X
Assumed use of ground water in the future as a potable water supply	X	
Maximum concentrations of COPCs detected in ground water used as exposure point concentration	X	
Intakes by ground–water pathways are assumed to be constant over the exposure duration	X	X
Toxicity Assessment:		
Use of administered RfDs and CSFs for dermal risk calculations		X
Qualitative toxicity evaluation when no toxicity values available		X
Metals results for grab ground–water samples not included in risk estimates		X

PREPARED/DATE: CHR 7/31/95
CHECKED/DATE: LAS 8/1/95

TABLE 7.1

FORMER GRIFFISS AFB PROPOSED SUPPLEMENTAL INVESTIGATIONS
BUILDING 3 DRYWELL

Proposed Investigations							
SI Activity	**Sample Type**	**No. of Locations**	**No. of Samples Per Location**	**Approximate Boring Depth (feet BGS)**	**Sample Depth (feet BGS)**	**Sample Identification**	**Analytical Tests to be Conducted**
Vertical Profile Well Installation	GW (see On-Base Groundwater AOC)						

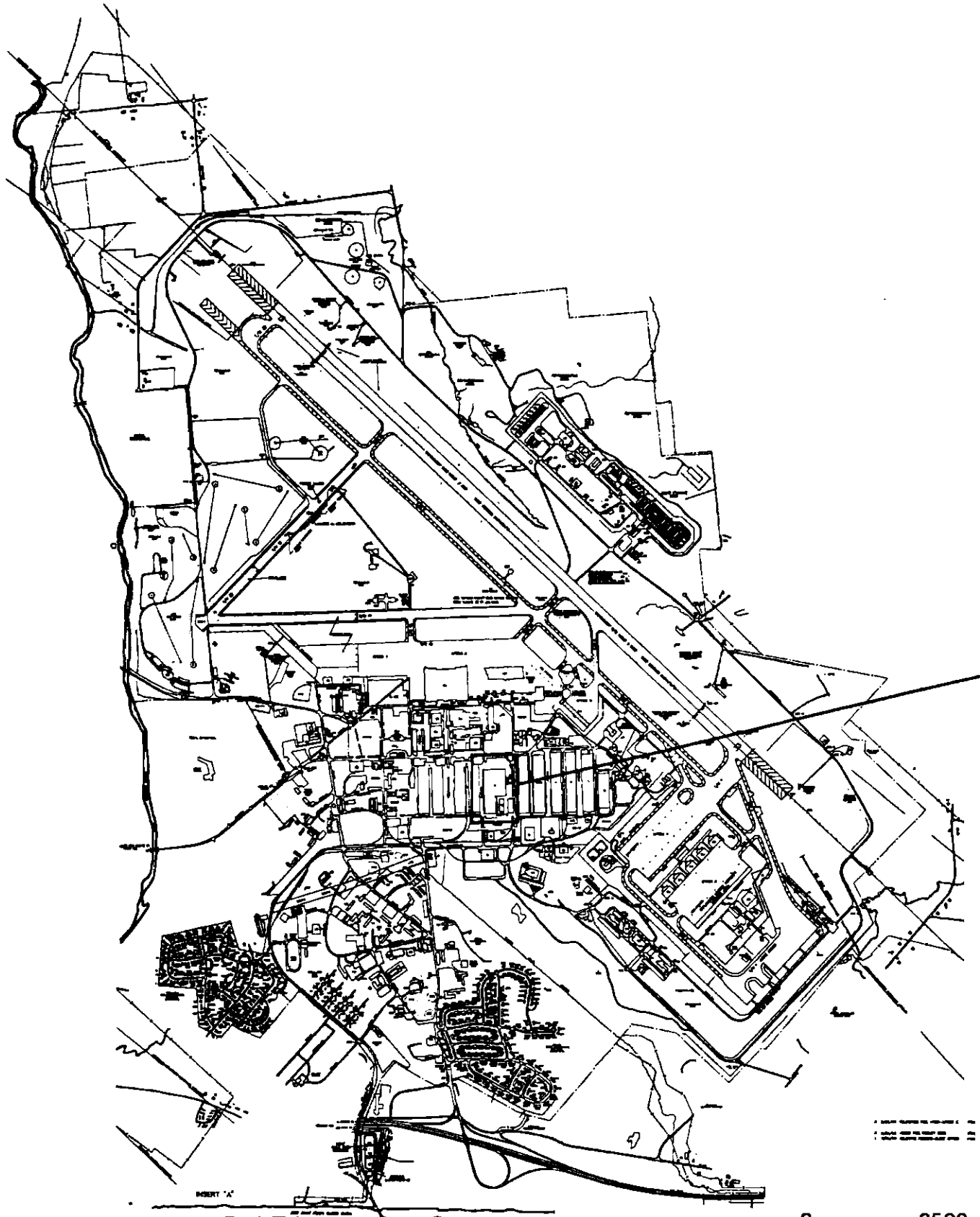
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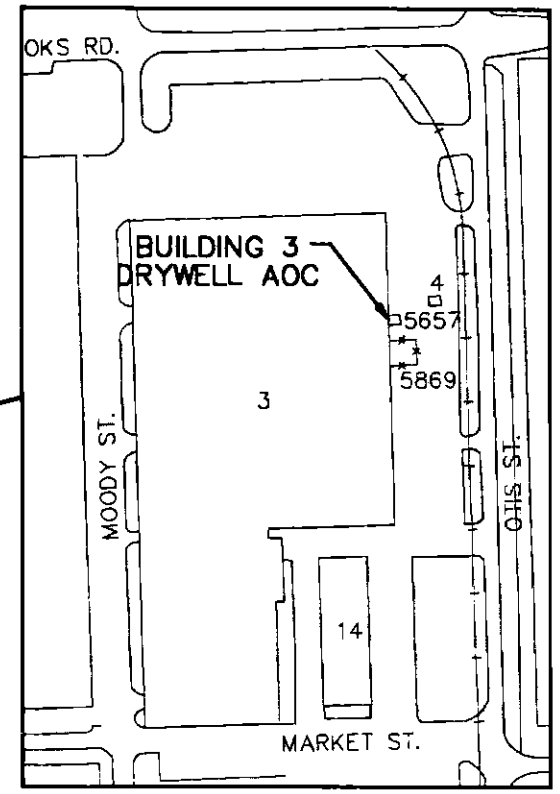
AFB = Air Force Base.
AOC = Area of Concern.
BGS = Below ground surface.
GW = Groundwater.
SI = Supplemental Investigation.

TAB

Figures

943 55





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UNITED STATES ARMY CORPS OF ENGINEERS
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

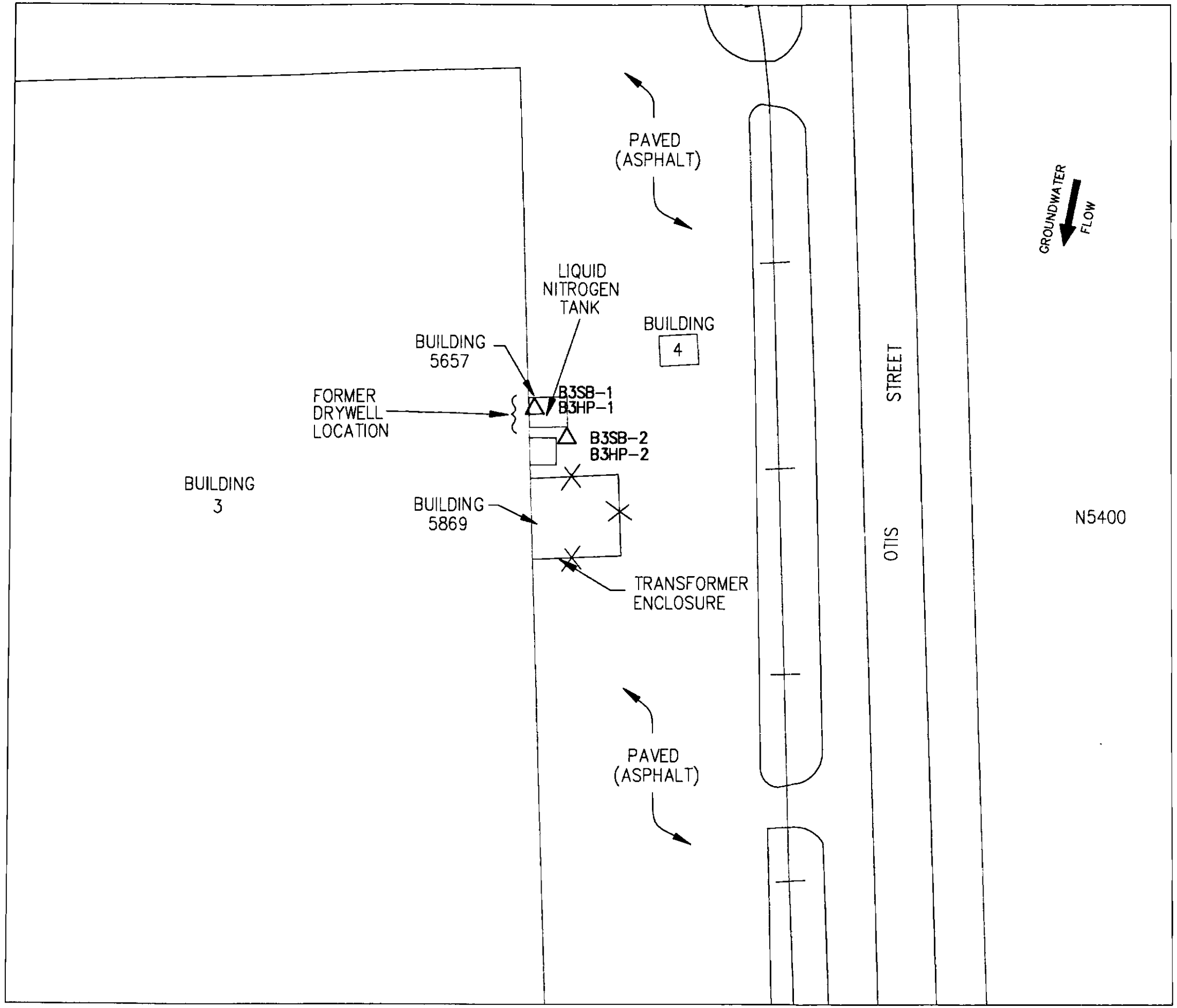
REMEDIAL INVESTIGATION

AREA OF CONCERN LOCATION

BUILDING 3 DRYWELL

PREPARED BY: DSS 4/25/95	FIGURE NUMBER: 1.1	FILE DATE: 25.APRIL.95
CHECKED BY: KLA 4/25/95		PLOT DATE: 02.DECEMBER.96
PROJECT NO. 11-2588-0221		FILE NAME: BLDG-03.DWG

943 56 N



LEGEND:

△ SOIL BORING/GRAB GROUND-WATER SAMPLE

RAILROAD TRACKS

0 50 100

SCALE IN FEET

GROUND SURFACE ELEVATION IS 467 FEET.

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

RI REPORT

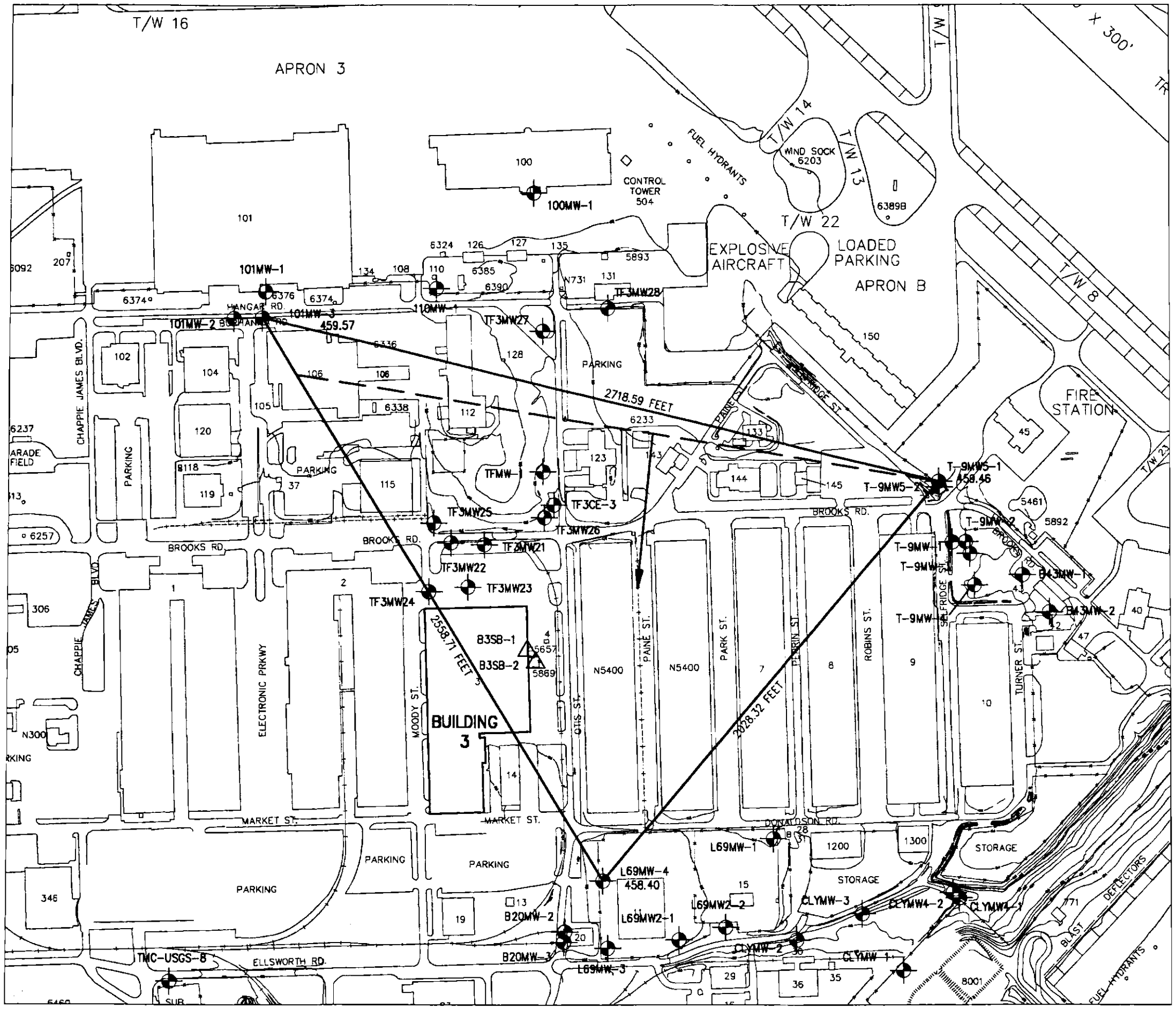
SOIL BORING AND GRAB GROUND-WATER SAMPLING LOCATIONS

BUILDING 3 DRYWELL

PREPARED BY/DATE: DSS 4/25/95	FIGURE NUMBER: 2.1	FILE DATE: 06.DEC.94
CHECKED BY/DATE: KLA 4/25/95		PLOT DATE: 02.DECEMBER.96
PROJECT NUMBER: 11-2588-0211		FILE NAME: B3-DWELL.DWG

943 57

N



LEGEND:

- MONITORING WELL
- SOIL BORING SAMPLE
- 459.46 TOPOGRAPHIC CONTOUR
- TRIANGLE USED FOR CALCULATION
- 459.46 GROUNDWATER ELEVATIONS MEASURED AUGUST, SEPTEMBER 1994
- CALCULATED DIRECTION OF GROUND-WATER FLOW

0 400 800

SCALE IN FEET

TOPOGRAPHIC CONTOUR INTERVAL 2 FEET

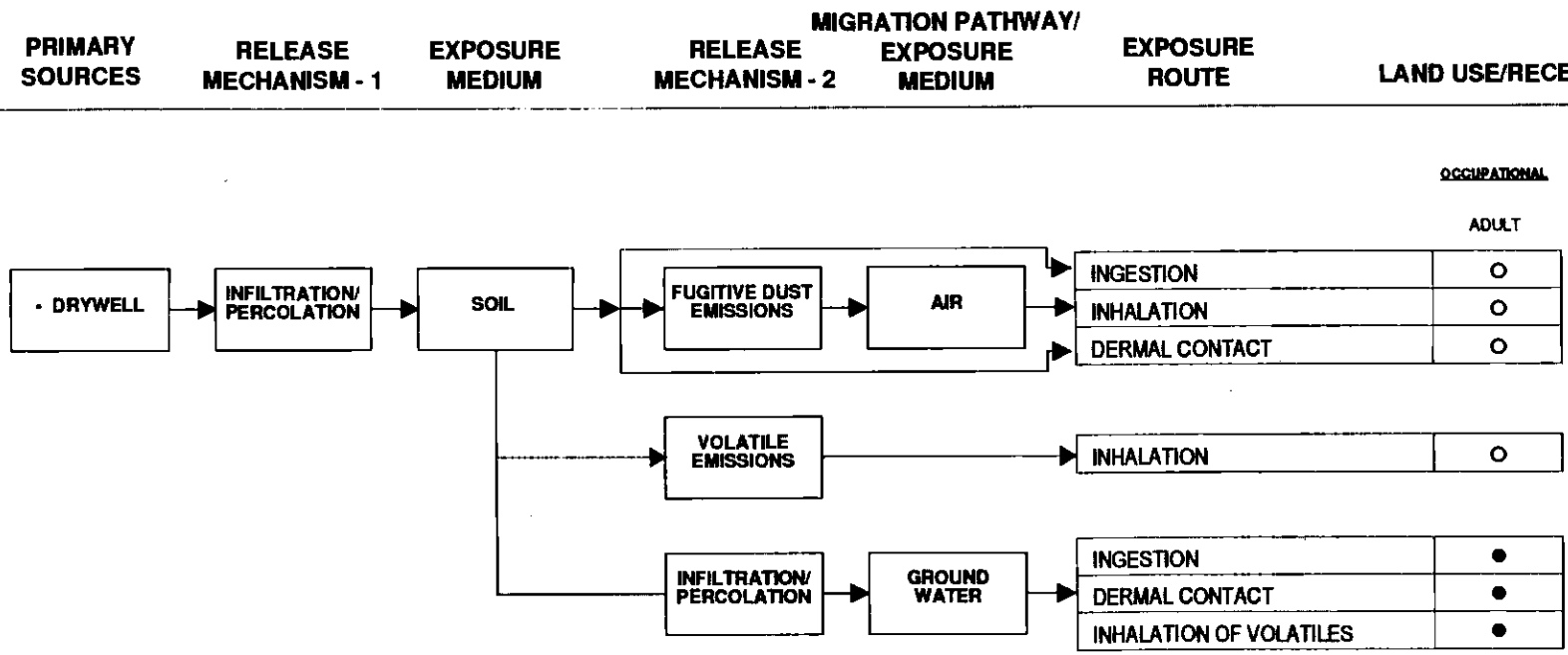
UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

RI REPORT

GROUND-WATER FLOW VECTOR MAP

BUILDING 3 DRYWELL

PREPARED BY: HAL	FIGURE NUMBER: 3.1	FILE DATE: 16.MAY.95	
CHECKED BY: JRK		PLOT DATE: 09.DECEMBER.96	
PROJECT NUMBER: 11-2588-0211		FILE NAME: TRI-MAP1.DWG	



LEGEND

○ EXPOSURES COULD NOT BE QUANTIFIED FOR THIS AOC DUE TO THE LACK OF DATA

● EXPOSURES WERE EVALUATED QUANTITATIVELY

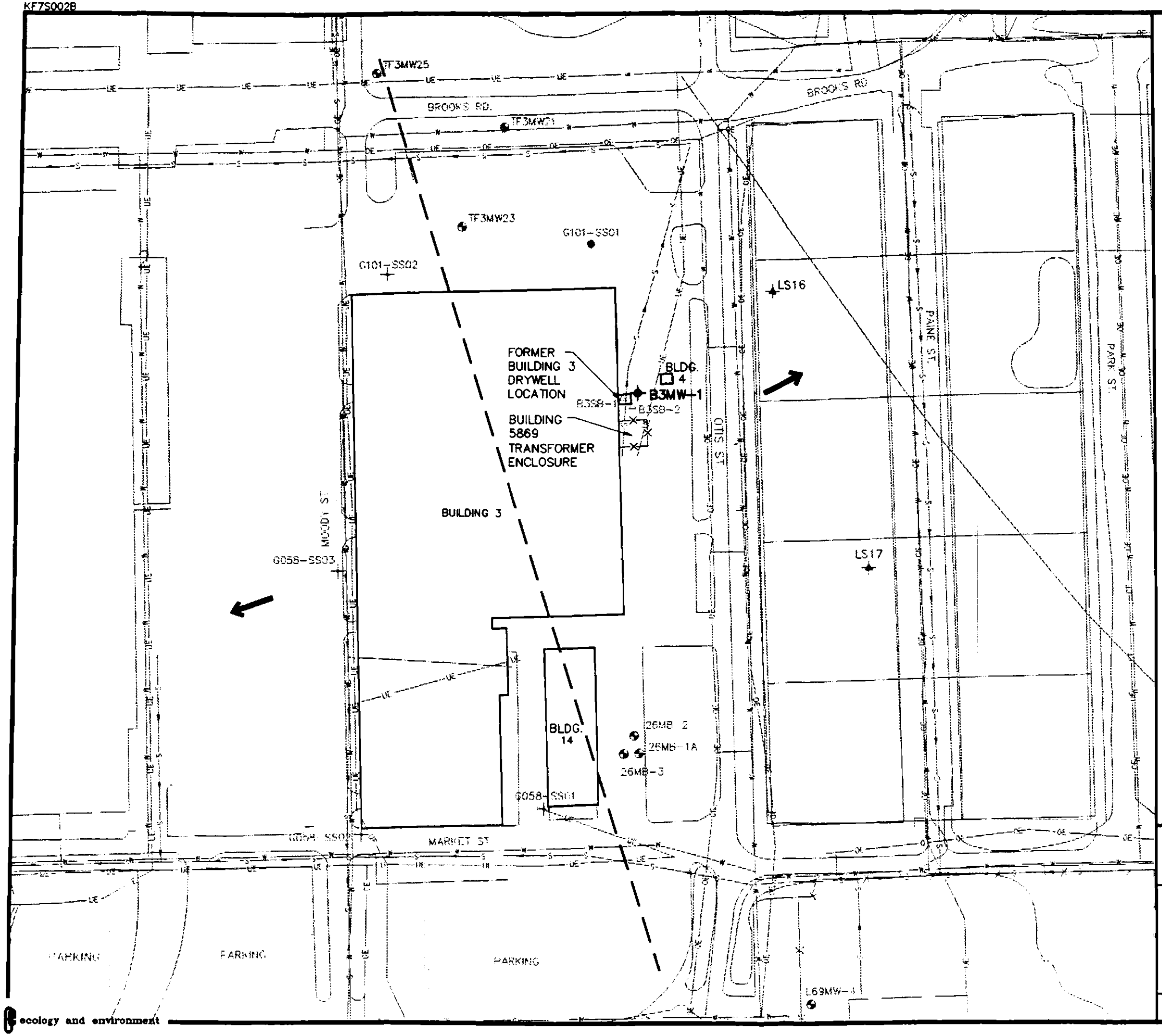
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RI REPORT

CONCEPTUAL SITE MODEL–

HUMAN HEALTH EVALUATION – BUILDING 3

PREPARED BY: COK 15 JUL 95	FIGURE NUMBER: 6.1	FILE DATE: 13 JUL 95	
CHECKED BY: LAS 15 JUL 95		PLOT DATE: 11 NOV 96	
PROJECT No: 11-2588-0211		FILE NAME: 2588-0211.17	



LEGEND

- PROPOSED SUPPLEMENTAL INVESTIGATION MONITORING WELL
- RI SOIL BORING
- EXISTING WELL
- GROUP I AOI LEAD-SCREEN AUGER BORING
- GROUP III AOI SOIL BORING
- GROUP III AOI BORING/TEMPORARY MONITORING WELL
- DIRECTION OF GROUNDWATER FLOW
- GROUNDWATER DIVIDE
- FENCE
- SEWER LINE
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- WATER LINE

N

SCALE IN FEET

0 150 300 450

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

Figure 7.1
PROPOSED SUPPLEMENTAL INVESTIGATION
BUILDING 3 – DRYWELL

TAB

Appendix A

APPENDIX A

SOIL BORINGS - HTW DRILLING LOGS
Building 3 Drywell

HTW DRILLING LOG

HOLE NO. B3-SB-1

1. COMPANY NAME: Law Environmental, Inc.	2. DRILLING SUBCONTRACTOR: Parratt-Wolff
SHEET 1 OF 1 SHEETS	
3. PROJECT: Griffiss AFB RI	4. LOCATION (CITY, STATE): Rome, N.Y
5. NAME OF DRILLER: Butch Steven	6. MANUFACTURER'S DESIGNATION OF DRILL: R/A (Shop-built motor driven cathead
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 220V motor-driven electric cathead w/ portable tripod; 2" carbon steel split spoons; 3" stainless steel split spoons	9. HOLE LOCATION (SITE): Building 3 drywell
	10. SURFACE ELEVATION: N/A
8. WEATHER: partly cloudy, warm	11. DATE STARTED: 4/27/94 — 12. DATE COMPLETED: 4/27/94
13. OVERBURDEN THICKNESS: 0.25' Asphalt	16. DEPTH GROUNDWATER ENCOUNTERED: N/A
14. DEPTH DRILLED INTO ROCK: N/A	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
15. TOTAL DEPTH OF HOLE: 3'	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
N/A	—	—	N/A

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY%
N/A	—	—	—	—	—	N/A

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
Vertical	✓	—	—	John M Quinn

25. CHECKED BY: DSS 6-7-94 — 26. NAME OF INSPECTOR: John M. Quinn

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		0.25' asphalt (broke thru with pick)	BZ			0.5'-2.0	0.5' Recovery for 0.5'-2.0'
	1.0	Brown, moist, silty GRAVEL, rounded, with black sandy SILT (ML-GM)	HNu 0.2 ppm; B.G. 0.2 ppm; O_2 20.9%; CO 3 ppm; LEL 0%; H_2S 0				
	2.0	CONCRETE at 3 feet					Refusal at 3'; boring terminated; well offset.
	3.0	BORING TERMINATED AT 3 feet; Refusal; CONCRETE					
	4.0						

MRK FORM JUN 89 55 — PROJECT NAME & NO: Griffiss AFB RI 11-2588-0204 — HOLE No: B3-SB-1

HTW DRILLING LOG

HOLE No. B3-SB-1
SHEET 1 OF 2 SHEET

1 COMPANY NAME: Law Environmental, Inc.	2 DRILLING SUBCONTRACTOR: Parratt-Wolff
3 PROJECT: Griffiss AFB RI	4 LOCATION (CITY, STATE): Rome, NY
5 NAME OF DRILLER: Butch Steven	6 MANUFACTURER'S DESIGNATION OF DRILL: NA
7 SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 220 V mobile-drive, electric cathead w/ portable tripod; 2" carbon steel split-spoon; 3" stainless steel split-spoon	9 HOLE LOCATION (SITE): Building 3 dry well
	10 SURFACE ELEVATION: 468.37
8 WEATHER: partly cloudy, warm	11 DATE STARTED: 4/27/94 — 12 DATE COMPLETED: 4/27/94
13 OVERBURDEN THICKNESS: 0.25' asphalt	16 DEPTH GROUNDWATER ENCOUNTERED: 8.5'
14 DEPTH DRILLED INTO ROCK: N/A	17 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLET: N/A
15 TOTAL DEPTH OF HOLE: 12'	18 OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

19 GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20 TOTAL NUMBER OF CORE BOXES
1 (4-6')	✓		N/A

21 SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22 TOTAL CORE RECOVERY%
Hydrocarbon only N/A	-	-	-	-	-	-

23 DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24 SIGNATURE OF INSPECTOR
Vertical	abandoned per F.U.P.	—	-	John M. Quinn

25 CHECKED BY: DSS 6-7-94 — 26 NAME OF INSPECTOR: John M. Quinn

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		0.25' asphalt @ surface	BZ HNu 0.2 ppm BG 0.2 ppm Borehole O_2 20.9% LEL 0% CO 3.0 ppm H_2S 0 ppm			0'-2'	offset from B3-SB-1 0.2' rec (asphalt only)
	1.0						
	2.0						
	3.0	Gray, sl. moist, med to co silty SAND w/ fine to coarse gravel (subangular); also includes black inclusions ("cinder" appearance; hard, dry) (SM-SP)	BZ HNu 0 ppm BG 0 ppm Borehole O_2 20.8% LEL 0% CO 2 ppm H_2S 0 ppm				2'-4' Recovery-0.4'
	4.0	Red brown, moist, sl. silty f. SAND w/ co to fine gravel (rounded) (SM-SP)					4'-6' 0.9' rec transition @ 5'

MRK FORM JUN 89 55 | PROJECT NAME & NO. GAFB. RI 11-2588-0104 | HOLE No B3-SB-1

HTW DRILLING LOG

HOLE No. B3-SB-1 A

PROJECT: Griffiss AFB RI

INSPECTOR: John Quinn

SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5.0	Tan slightly moist co to Fi sandy co to Fine GRAVEL (rounded) (GM)	BZ	(1) 4'-6'			4'-6' 0.9' recovery
	6.0	Brown, moist, silty med to co SAND w/ Fine to co gravel and cobbles (SM-SP)	HNu 0.2 ppm BG 0.2 ppm Borehole O_2 20.8% CO 0.3 ppm H_2S 0 ppm LEL 0%			6'-8'	Recovery for 6'-8' - 1' (not enough sample for chem sample)
	7.0						
	8.0						
8.5'		Brown, wet Fine GRAVEL (rounded) w/ silty med to coarse sand (GM)	BZ HNu 0.0 ppm BG 0.0 ppm Borchole O_2 20.8% LEL 0% CO 3.0 ppm H_2S 0 ppm			8'-10'	0.1' recovery No recovery for chemical sampling
	9.0						
	10.0						
	11.0						Hydropunch driven to 12 feet
	12.0	BORING TERMINATED AT 12 feet (Hydropunch driven to 12 feet)					
	13.0						

MRK FORM JUN 89 55-2

PROJECT NAME & NO. GAFO - RI 11-2588-020

HOLE No. B3-SB-1A

HTW DRILLING LOG

HOLE No. B-3-SB-2

1. COMPANY NAME: Law Environmental, Inc.	2. DRILLING SUBCONTRACTOR: Parratt-Wolff
3. PROJECT: Griffiss AFB RI	4. LOCATION (CITY, STATE): Rome, N.Y
5. NAME OF DRILLER: Butch Steven	6. MANUFACTURER'S DESIGNATION OF DRILL: Ingersoll Rand A-200
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Ingersoll Rand A-200; 4¼" H-Sawger; 2" dia split spoon	9. HOLE LOCATION (SITE): Building 3
	10. SURFACE ELEVATION: 468.23
8. WEATHER: sunny, warm (75°F)	11. DATE STARTED: 4/26/94 — 12. DATE COMPLETED: 4/26/94
13. OVERBURDEN THICKNESS: 6" asphalt	16. DEPTH GROUNDWATER ENCOUNTERED: 8'
14. DEPTH DRILLED INTO ROCK: N/A	17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A
15. TOTAL DEPTH OF HOLE: 12'	18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

19. GEOTECHNICAL SAMPLES (#)	DISTURBED	UNDISTURBED	20. TOTAL NUMBER OF CORE BOXES
	2	—	N/A

21. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	22. TOTAL CORE RECOVERY
N/A	—	—	—	—		N/A

23. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	24. SIGNATURE OF INSPECTOR
Abandoned	as per FOP	—	—	John M. Quinn

25. CHECKED BY: DSS 6-17-94 — 26. NAME OF INSPECTOR: John M. Quinn

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARK h
		6" asphalt				0.5'-2.0' 18/11/12	6" asphalt
	1.0	Brown, dry silty med. to fine SAND w/ coarse gravel (subangular) (SW); medium dense	BZ HNu 0.2 ppm B.G. 0.2 ppm Borehole O_2 20.9% LEL 0% CO 2.5 ppm H_2S 0 ppm	① 2.0'-4.0'		2'-4' 19/9/10/9	
	2.0	Tan, dry sl. silty coarse to fine SAND w/ coarse gravel (subangular) (SW); medium dense					
	3.0		BZ HNu 0.2 ppm B.G. 0.2 ppm Borehole O_2 20.8 ppm LEL 0% CO 0.5 ppm H_2S 0 ppm			4'-6' 6/6/6/8	
	4.0	Brown, sl moist, sl. silty med SAND with subangular to fine gravel (SW); medium dense					

MRK FORM JUN 89 55 — PROJECT NAME & NO. GAFB - RI 1L2588-0214 — HOLE No. B3-SB-2

HTW DRILLING LOG

HOLE No. B-3-SB-2

PROJECT: Griffiss AFB RI

INSPECTOR: John Quinn

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS (ppm) d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	5	Brown, sl. moist, sl. silty med. SAND w gravel co to fine (SW); gravel: low weath					
	6	medium dense					
	7	Brown, moist, sl. silty co to fine SAND w co to fine gravel (SW) medium dense	BZ HNu 0.0ppm B.G. 0.2ppm Bore hole O_2 20.9ppm LEL 0% CO 25ppm H_2S 0ppm	(2) 8-10' 4/4/2/2		6'-8' (10/8/8/7)	
	8						water @ 8 feet
	9	Brown, wet, coarse to fine SAND w trace silt w/ co to fine gravel; loose (SW)				8'-10' 4/4/2/2	
	10						
	11						Drive Hydropunch to 12'; attempt 3 times before successful
	12	BORING TERMINATED AT 12 feet (Hydropunch advanced to 12')					
	13						

MRK FORM JUN 80 55-2

PROJECT NAME & NO. GAFB - RI 11-2588-0264

HOLE No. B3-SB-2 ~~B-3-SB-2~~

TAB

Appendix B

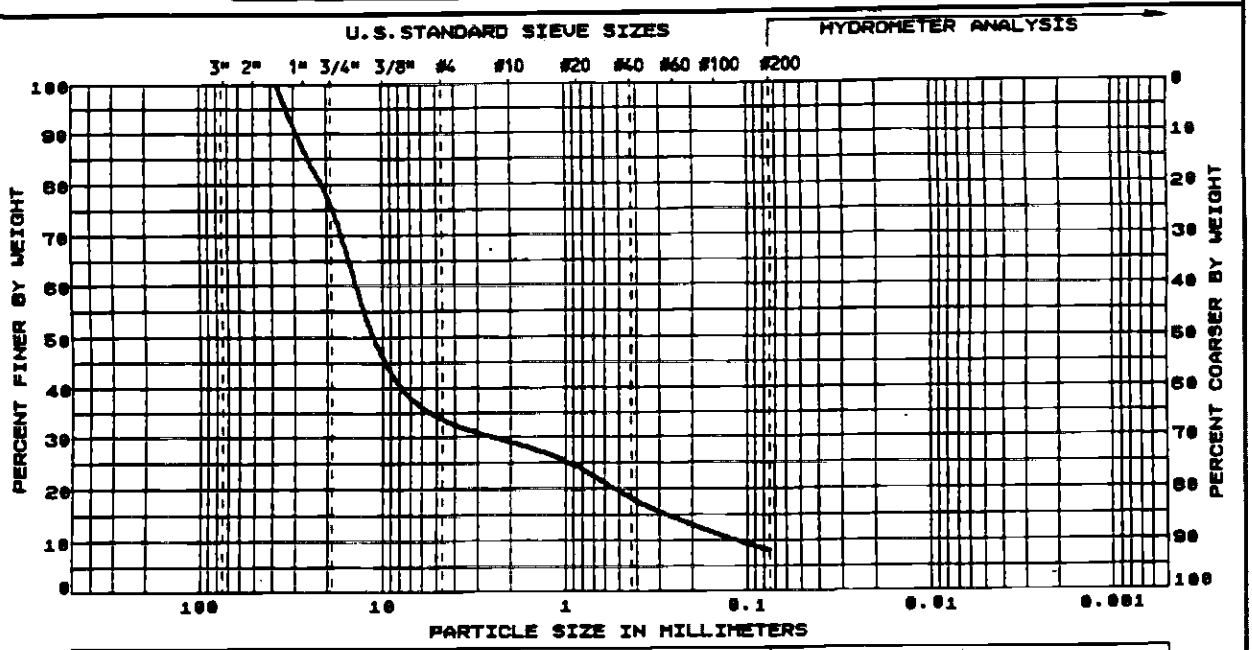
APPENDIX B

GEOTECHNICAL ANALYTICAL RESULTS
Building 3 Drywell

LAW ENVIRONMENTAL, INC.
300 CHASTAIN CNTR BLVD, SUITE 315
KENNESAW, GEORGIA 30144
404-425-7879

PARTICLE SIZE DISTRIBUTION & PHYSICAL PROPERTIES

CLIENT Government Services
JOB NO. 11-2588-0204
DATE October 14, 1994
LAB NO. 84761
PAGE 10
PROJECT Griffiss AFB - RI
CLIENT JOB NO./PO#
SAMPLE ID B-3 SB-1 4-6 JAR



COBBLES	GRAVEL		SAND			SILT & CLAY
	COARSE	FINE	CO.	MEDIUM	FINE	

U.S. STANDARD SIEVE SIZE		*PERCENT PASSING	HYDROMETER
SIEVE NO.	SIEVE SIZE (MILLIMETERS)		PARTICLE DIAMETER (MILLIMETERS)
3"	75		0.050
2"	50		0.020
1-1/2"	37.5	100.0	0.005
1"	25	84.8	0.002
3/4"	19	76.1	0.001
1/2"	12.5	54.8	
3/8"	9.5	44.7	
No.4	4.75	33.8	
No.10	2.00	29.2	
No.20	0.850	24.3	
No.40	0.425	18.2	
No.60	0.250	14.5	
No.100	0.150	11.5	
No.200	0.075	8.1	

*REMARKS: TABULATED HYDROMETER VALUES ARE COMPUTER INTERPOLATED FROM A LINEAR DATA PLOT. PLOTTED VALUES MAY BE MORE ACCURATE FOR THE 0.050 mm PARTICLE DIAMETER.

TESTED BY: SC JM MO

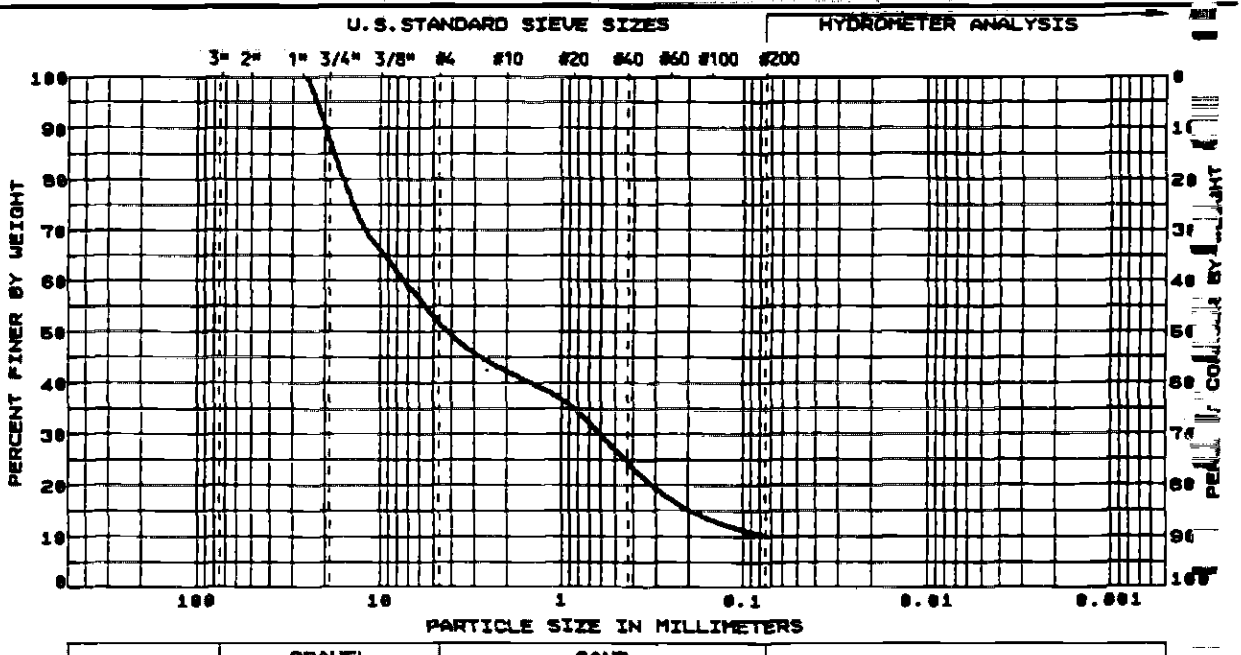
TOTAL POROSITY (%)
EFFECTIVE SIZE (mm)
COEFFICIENT OF UNIFORMITY 124.99
COEFFICIENT OF CURVATURE 3.56
LIQUID LIMIT NP
PLASTIC LIMIT NP
PLASTICITY INDEX NP
CLASSIFICATION POORLY GRADED GRAVEL with SILT and SAND (GP-GM)
WATER CONTENT (%) 6.3
DRY DENSITY (PCF)
SPECIFIC GRAVITY OF SOLIDS
HYDRAULIC CONDUCTIVITY (cm/sec - 20C)
TEST PROCEDURES: ASTM D422, D2216, D4318, D2487.

LAW ENVIRONMENTAL, INC.
M. A. O'Kelley

LAW ENVIRONMENTAL, INC.
300 CHASTAIN CNTR BLVD, SUITE 315
KENNESAW, GEORGIA 30144
404-425-7879

PARTICLE SIZE DISTRIBUTION & PHYSICAL PROPERTIES

CLIENT Government Services
JOB NO. 11-2588-0284 DATE October 14, 1994
LAB NO. 84762 PAGE 19
PROJECT Griffiss AFB - RI
CLIENT JOB NO./PO# SAMPLE ID B-3 SB-2 2-4 JAR



COBBLES	GRAVEL		SAND			SILT & CLAY
	COARSE	FINE	CO.	MEDIUM	FINE	

U.S. STANDARD SIEVE SIZE		*PERCENT PASSING		HYDROMETER
SIEVE NO.	SIEVE SIZE (MILLIMETERS)			PARTICLE DIAMETER (MILLIMETERS)
3"	75			0.050
2"	50			0.020
1-1/2"	37.5			0.005
1"	25	100.0		0.002
3/4"	19	88.2		0.001
1/2"	12.5	71.0		
3/8"	9.5	65.2		
No.4	4.75	52.0		
No.10	2.00	42.4		
No.20	0.850	35.1		
No.40	0.425	24.5		
No.60	0.250	17.3		
No.100	0.150	13.3		
No.200	0.075	10.1		

*REMARKS: TABULATED HYDROMETER VALUES ARE COMPUTER INTERPOLATED FROM A LINEAR DATA PLOT. PLOTTED VALUES MAY BE MORE ACCURATE FOR THE 0.050 mm PARTICLE DIAMETER.

TESTED BY: SC JM MO

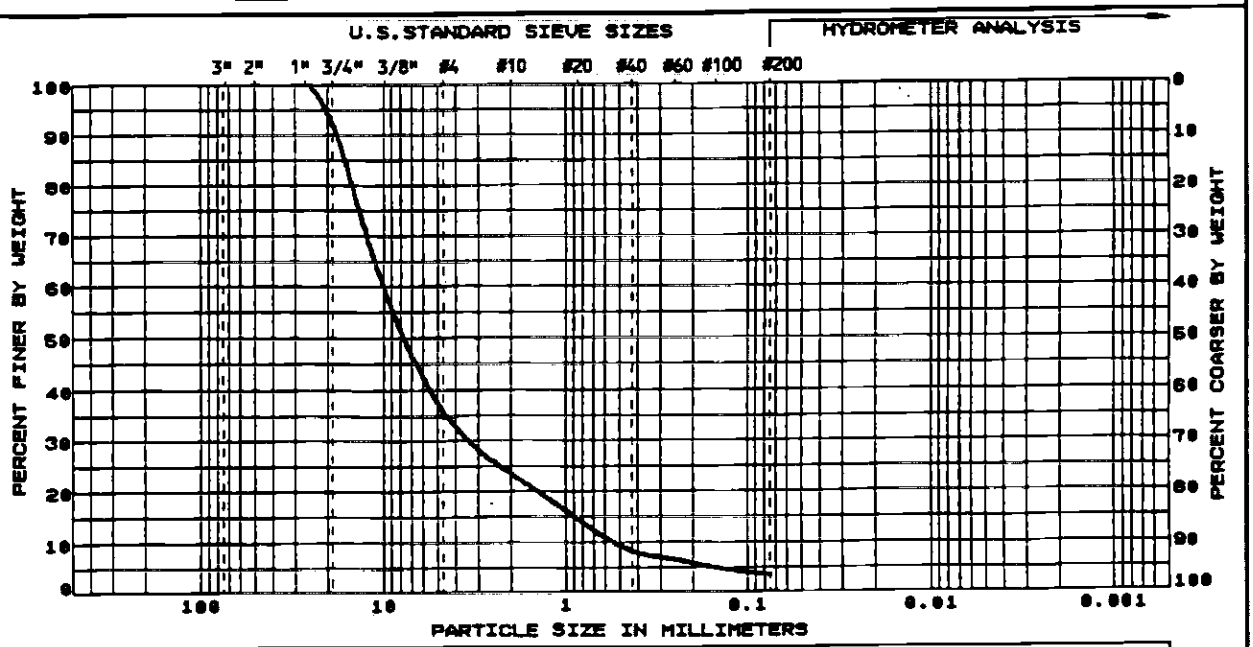
TOTAL POROSITY (%)
EFFECTIVE SIZE (mm)
COEFFICIENT OF UNIFORMITY 193.41
COEFFICIENT OF CURVATURE 0.73
LIQUID LIMIT NP
PLASTIC LIMIT NP
PLASTICITY INDEX NP
CLASSIFICATION POORLY GRADED GRAVEL with SILT and SAND (GP-GM)
WATER CONTENT (%) 3.1
DRY DENSITY (PCF)
SPECIFIC GRAVITY OF SOLIDS
HYDRAULIC CONDUCTIVITY (cm/sec - 20C)
TEST PROCEDURES: ASTM D422, D2216, D4318, D2487.

LAW ENVIRONMENTAL, INC.
M. A. Kelley

LAW ENVIRONMENTAL, INC.
300 CHASTAIN CNTR BLVD, SUITE 315
KENNESAW, GEORGIA 30144
404-425-7879

PARTICLE SIZE DISTRIBUTION & PHYSICAL PROPERTIES

CLIENT Government Services
CLIENT JOB NO./PO#
JOB NO. 11-2568-0204
LAB NO. 84763
PROJECT Griffiss AFB - RI
SAMPLE ID B-3 SB-2 8-10 JAR
DATE October 14, 1994
PAGE 20



COBBLES	GRAVEL		SAND			SILT & CLAY
	COARSE	FINE	CO.	MEDIUM	FINE	

U.S.STANDARD SIEVE SIZE		*PERCENT PASSING	HYDROMETER
SIEVE NO.	SIEVE SIZE (MILLIMETERS)		PARTICLE DIAMETER (MILLIMETERS)
3"	75		0.050
2"	50		0.020
1-1/2"	37.5		0.005
1"	25	100.0	0.002
3/4"	19	92.6	0.001
1/2"	12.5	78.5	
3/8"	9.5	67.9	
No.4	4.75	36.2	
No.10	2.00	23.7	
No.20	0.850	14.7	
No.40	0.425	8.3	
No.60	0.250	6.5	
No.100	0.150	5.0	
No.200	0.075	3.6	

*REMARKS: TABULATED HYDROMETER VALUES ARE COMPUTER INTERPOLATED FROM A LINEAR DATA PLOT. PLOTTED VALUES MAY BE MORE ACCURATE FOR THE 0.050 mm PARTICLE DIAMETER.

TESTED BY: SC JM MO

TOTAL POROSITY (%)
EFFECTIVE SIZE (mm)
COEFFICIENT OF UNIFORMITY 19.45
COEFFICIENT OF CURVATURE 1.80
LIQUID LIMIT NP
PLASTIC LIMIT NP
PLASTICITY INDEX NP
CLASSIFICATION WELL GRADED GRAVEL with SAND (GW)
WATER CONTENT (%) 10.0
DRY DENSITY (PCF)
SPECIFIC GRAVITY OF SOLIDS
HYDRAULIC CONDUCTIVITY (cm/sec - 20C)
TEST PROCEDURES: ASTM D422, D2216, D4318, D2487,

LAW ENVIRONMENTAL, INC.
M. A. O'Kelley

TAB

Appendix C

APPENDIX C

ANALYTICAL DATA SUMMARY TABLE
Building 3 Drywell

Table C.1: Analytical Data Summary for Grab Ground-Water
Building 3 Drywell Remedial Investigation
Griffiss Air Force Base, Rome, New York

Sample I.D.	B3-HP-1	B3-HP-1	B3-HP-2	B3-HP-01 (1)	B3-HP-2	B3-H
Laboratory	(R)	(L)	(R)	(R)	(L)	(L)
Sample Date	04-27-94	11-15-94	04-27-94	04-27-94	11-15-94	11-15
METHOD: EPA 524.2						
VOLATILES: (ug/L)						
1,1,1,2-Tetrachloroethane	0.50 U	--	0.50 U	0.50 U	--	
1,1,1-Trichloroethane	0.82	--	0.82	0.77	--	
1,1,2,2-Tetrachloroethane	0.17 U	--	0.17 U	0.17 U	--	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50 U	--	0.50 U	0.50 U	--	
1,1,2-Trichloroethane	0.50 U	--	0.50 U	0.50 U	--	
1,1-Dichloroethane	0.50 U	--	0.50 U	0.50 U	--	
1,1-Dichloroethene	0.50 U	--	0.50 U	0.50 U	--	
1,1-Dichloropropene	0.50 U	--	0.50 U	0.50 U	--	
1,2,3-Trichlorobenzene	0.50 U	--	0.50 U	0.50 U	--	
1,2,3-Trichloropropane	0.50 U	--	0.50 U	0.50 U	--	
1,2,4-Trichlorobenzene	0.50 U	--	0.50 U	0.50 U	--	
1,2,4-Trimethylbenzene	0.50 U	--	0.50 U	0.50 U	--	
1,2-Dibromo-3-chloropropane	0.50 U	--	0.50 U	0.50 U	--	
1,2-Dibromoethane	0.50 U	--	0.50 U	0.50 U	--	
1,2-Dichlorobenzene	0.50 U	--	0.50 U	0.50 U	--	
1,2-Dichloroethane	0.50 U	--	0.50 U	0.50 U	--	
1,2-Dichloropropane	0.50 U	--	0.50 U	0.50 U	--	
1,3,5-Trimethylbenzene	0.50 U	--	0.50 U	0.50 U	--	
1,3-Dichlorobenzene	0.50 U	--	0.50 U	0.50 U	--	
1,3-Dichloropropane	0.50 U	--	0.50 U	0.50 U	--	
1,4-Dichlorobenzene	0.50 U	--	0.50 U	0.50 U	--	
2,2-Dichloropropane	0.50 U	--	0.50 U	0.50 U	--	
Acrolein	10 U	--	10 U	10 U	--	
Acrylonitrile	1.4 UJ	--	1.4 UJ	1.4 UJ	--	
Benzene	0.50 U	--	0.50 U	0.50 U	--	
Bromobenzene	0.50 U	--	0.50 U	0.50 U	--	
Bromochloromethane	0.50 U	--	0.50 U	0.50 U	--	
Bromodichloromethane	0.50 U	--	0.50 U	0.50 U	--	
Bromoform	0.50 U	--	0.50 U	0.50 U	--	
Bromomethane	0.50 U	--	0.50 U	0.50 U	--	
Carbon Tetrachloride	0.40 U	--	0.40 U	0.40 U	--	
Chlorobenzene	0.50 U	--	0.50 U	0.50 U	--	
Chloroethane	0.50 U	--	0.50 U	0.50 U	--	
Chloroform	1.1	--	1.1	1.0	--	
Chloromethane	0.50 U	--	0.50 U	0.50 U	--	
cis-1,2-Dichloroethene	0.50 U	--	0.50 U	0.50 U	--	
cis-1,3-Dichloropropene	0.50 U	--	0.50 U	0.50 U	--	
Cyanogen chloride	0.50 W	--	0.50 W	0.50 W	--	
Dibromochloromethane	0.50 U	--	0.50 U	0.50 U	--	
Dibromodichloromethane	5.0 U	--	5.0 U	5.0 U	--	
Dibromomethane	0.50 U	--	0.50 U	0.50 U	--	
Dichlorodifluoromethane	0.50 U	--	0.50 U	0.50 U	--	
Dichlorofluoromethane	0.50 U	--	0.50 U	0.50 U	--	
Ethyl benzene	0.50 U	--	0.50 U	0.50 U	--	
Hexachlorobutadiene	0.45 U	--	0.45 U	0.45 U	--	
Isopropylbenzene	0.50 U	--	0.50 U	0.50 U	--	
Methyl methacrylate	2.0 U	--	2.0 U	2.0 U	--	
Methylene chloride	0.50 U	--	0.50 U	0.50 U	--	
n-Butylbenzene	0.50 U	--	0.50 U	0.50 U	--	
n-Propylbenzene	0.50 U	--	0.50 U	0.50 U	--	
Naphthalene	0.50 U	--	0.50 U	0.50 U	--	
o-Chlorotoluene	0.50 U	--	0.50 U	0.50 U	--	
p-Chlorotoluene	0.50 U	--	0.50 U	0.50 U	--	
p-Cymene	0.50 U	--	0.50 U	0.50 U	--	
sec-Butylbenzene	0.50 U	--	0.50 U	0.50 U	--	
Styrene	0.50 U	--	0.50 U	0.50 U	--	
tert-Butylbenzene	0.50 U	--	0.50 U	0.50 U	--	
Tetrachloroethene	0.24 J	--	0.26 J	0.25 J	--	
Toluene	0.50 U	--	0.50 U	0.50 U	--	
Total Xylenes	0.50 U	--	0.50 U	0.50 U	--	
trans-1,2-Dichloroethene	0.50 U	--	0.50 U	0.50 U	--	
trans-1,3-Dichloropropene	0.50 U	--	0.50 U	0.50 U	--	
Trichloroethene	2.0	--	2.0	2.0	--	
Trichlorofluoromethane	0.50 U	--	0.50 U	0.50 U	--	
Vinyl chloride	0.50 U	--	0.50 U	0.50 U	--	
SURROGATE RECOVERY (%)						
p - Bromofluorobenzene	90	--	97	89	--	
1,2 - Dichlorobenzene - d4	95	--	101	98	--	
METHOD: EPA 525.1						
SEMI-VOLATILES: (ug/L)						
1,2-Diphenylhydrazine	0.66 U	--	0.66 U	0.66 U	--	
2,3-Dichlorobiphenyl	8.9 U	--	8.9 U	8.9 U	--	
2,4,5-Trichlorobiphenyl	5.6 U	--	5.6 U	5.6 U	--	
2,4,5-Trichlorophenol	5.6 U	--	5.6 U	5.6 U	--	

Table C.1: Analytical Data Summary for Grab Ground-Water
Building 3 Drywell Remedial Investigation
Griffiss Air Force Base, Rome, New York

Sample I.D.	B3-HP-1	B3-HP-1	B3-HP-2	B3-HP-01 (1)	B3-HP-2	E
Laboratory	(R)	(L)	(R)	(R)	(L)	(L
Sample Date	04-27-94	11-15-94	04-27-94	04-27-94	11-15-94	11-15
2,4,6-Trichlorophenol	1.3 U	--	1.3 U	1.3 U	--	
2,4-Dichlorophenol	1.1 U	--	0.016 J	1.1 U	--	
2,4-Dinitrotoluene	0.56 U	--	0.56 U	0.56 U	--	
2-Chlorobiphenyl	8.9 U	--	8.9 U	8.9 U	--	
2-Chlorophenol	0.56 UR	--	0.56 UR	0.56 UR	--	
2-Nitrophenol	0.56 UR	--	0.56 UR	0.56 UR	--	
2,2',3,3,4,4,6-Heptachlorobiphenyl	8.9 UJ	--	8.9 U	8.9 U	--	
2,2',3,3,4,5,6,6-Octachlorobiphenyl	8.9 UJ	--	8.9 U	8.9 U	--	
2,2',3,4,6-Pentachlorobiphenyl	8.9 U	--	8.9 U	8.9 U	--	
2,2',4,4-Tetrachlorobiphenyl	8.9 U	--	8.9 U	8.9 U	--	
2,2',4,4',5,6-Hexachlorobiphenyl	8.9 U	--	8.9 U	8.9 U	--	
3,3'-Dichlorobenzidine	5.6 UJ	--	5.6 U	5.6 U	--	
4-Chloro-3-methylphenol	5.6 U	--	5.6 U	5.6 U	--	
4-Nitrophenol	0.56 U	--	0.56 U	0.56 U	--	
Acenaphthylene	5.6 U	--	5.6 U	5.6 U	--	
Alachlor	5.6 U	--	5.6 U	5.6 U	--	
Aldrin	5.6 U	--	5.6 U	5.6 U	--	
alpha-Chlordane	5.6 UJ	--	5.6 U	5.6 U	--	
Aminocresols	5.6 W	--	5.6 W	5.6 W	--	
Anthracene	0.011 J	--	2.2 U	2.2 U	--	
Atrazine	5.6 U	--	5.6 U	5.6 U	--	
Benzidine	4.4 U	--	4.4 U	4.4 U	--	
Benzo(a)anthracene	0.21 UJ	--	0.21 U	0.21 U	--	
Benzo(a)pyrene	0.66 UJ	--	0.66 U	0.66 U	--	
Benzo(b)fluoranthene	0.73 UJ	--	0.73 U	0.73 U	--	
Benzo(ghi)perylene	5.6 UJ	--	5.6 U	5.6 U	--	
Benzo(k)fluoranthene	0.44 UJ	--	0.44 U	0.44 U	--	
Bis(2-chloroethyl) ether	0.11 U	--	0.11 U	0.11 U	--	
Bis(2-ethylhexyl) phthalate	5.6 U	--	5.6 U	5.6 U	--	
Butyl benzyl phthalate	5.6 U	--	5.6 U	5.6 U	--	
Captan	5.6 U	--	5.6 U	5.6 U	--	
Chrysene	0.23 UJ	--	0.23 U	0.23 U	--	
Di-2-ethylhexyladipate	5.6 UJ	--	5.6 U	5.6 U	--	
Di-n-butyl phthalate	5.6 U	--	5.6 U	5.6 U	--	
Dibenzo(a,h)anthracene	1.1 U	--	1.1 U	1.1 U	--	
Diethyl phthalate	5.6 U	--	5.6 U	5.6 U	--	
Dimethyl phthalate	5.6 U	--	5.6 U	5.6 U	--	
Endrin	5.6 U	--	5.6 U	5.6 U	--	
Fluorene	0.024 J	--	0.0089 J	5.6 U	--	
gamma-BHC (Lindane)	1.1 U	--	1.1 U	1.1 U	--	
gamma-Chlordane	5.6 UJ	--	5.6 U	5.6 U	--	
Heptachlor	5.6 U	--	5.6 U	5.6 U	--	
Heptachlor epoxide	5.6 U	--	5.6 U	5.6 U	--	
Hexachlorobenzene	0.78 U	--	0.78 U	0.78 U	--	
Hexachlorocyclopentadiene	0.98 U	--	0.98 U	0.98 U	--	
Indeno(1,2,3-cd)pyrene	1.3 UJ	--	1.3 U	1.3 U	--	
Methoxychlor	0.56 UJ	--	0.56 U	0.56 U	--	
N-Nitrosodi-n-butylamine	1.4 U	--	1.4 U	1.4 U	--	
N-Nitrosodiethylamine	0.056 U	--	0.056 U	0.056 U	--	
N-Nitrosodimethylamine	0.28 U	--	0.28 U	0.28 U	--	
N-nitrosodiphenylamine	0.070 J	--	0.030 J	4.4 U	--	
Nitrobenzene	1.1 U	--	1.1 U	1.1 U	--	
o-Toluidine	5.6 W	--	5.6 W	5.6 W	--	
Pentachlorophenol	2.1 UJ	--	2.1 U	2.1 U	--	
Phenanthrene	0.12 J	--	0.036 J	0.046 J	--	
Propham	5.6 W	--	5.6 W	5.6 W	--	
Pyrene	0.047 J	--	0.0089 J	5.6 U	--	
Simazine	5.6 U	--	0.046 J	5.6 U	--	
Thiram	5.6 W	--	5.6 W	5.6 W	--	
Toxaphene	56 UJ	--	56 U	56 U	--	
trans-Nonachlor	5.6 UJ	--	5.6 U	5.6 U	--	
SURROGATE RECOVERY (%)						
Perylene - d12	118	--	80	87	--	
METALS: (mg/L)						
Aluminum (3005/6010)	3.5 J	--	140 J	14.7 J	--	
Antimony (3005/7041)	0.030 U	--	0.030 U	0.030 U	--	
Arsenic (3020/7060)	0.0050	--	0.027	0.0080	--	
Barium (3005/6010)	0.073	--	1.2	0.66	--	
Beryllium (3005/6010)	0.0030 U	--	0.0050	0.0030 U	--	
Cadmium (3005/6010)	0.010 U	--	0.010 U	0.010 U	--	
Calcium (3005/6010)	79.9	--	306	170	--	
Chromium (3005/6010)	0.010 U	--	0.27	0.028	--	
Cobalt (3005/6010)	0.010 U	--	0.21	0.050	--	
Copper (3005/6010)	0.039	--	1.1	0.19	--	
Hexavalent Chromium (7195)	0.014	--	0.010 U	0.011	--	
Iron (3005/6010)	11.7	--	613	44.0	--	

2588-0211.17 (ads-gw)

Table C.1: Analytical Data Summary for Grab Ground-Water
Building 3 Drywell Remedial Investigation
Griffiss Air Force Base, Rome, New York

Sample I.D.	B3-HP-1	B3-HP-1	B3-HP-2	B3-HP-01 (1)	B3-HP-2	B3-
Laboratory	(R)	(L)	(R)	(R)	(L)	(L
Sample Date	04-27-94	11-15-94	04-27-94	04-27-94	11-15-94	11-1
Lead (3020/7421)	0.014	--	0.26	0.086	--	
Magnesium (3005/6010)	7.8	--	82.6	15.7	--	
Manganese (3005/6010)	2.8	--	58.0	30.5	--	
Mercury (7470)	0.00040 U	--	0.00075	0.00050	--	
Molybdenum (3020/7480)	0.050 J	--	0.080 J	0.050 U	--	
Nickel (3005/6010)	0.030 U	--	0.66	0.31	--	
Potassium (3005/6010)	2.6	--	17.0	2.8	--	
Selenium (3020/7740)	0.0030 U	--	0.0030 U	0.0030 U	--	
Silver (3005/6010)	0.010 U	--	0.010 U	0.010 U	--	
Sodium (3005/6010)	17.1	--	17.7	16.8	--	
Strontium (3005/6010)	0.23	--	0.80	0.43	--	
Thallium (3020/7841)	0.0040 U	--	0.0040 U	0.0040 U	--	
Vanadium (3005/6010)	0.010 U	--	0.31	0.010 U	--	
Zinc (3005/6010)	0.060	--	1.6	0.25	--	
WET CHEMISTRY: (mg/L)						
Total Cyanide (9012)	--	0.005 U	--	--	0.005 U	0.
Total Recoverable Petroleum Hydrocarbons (418.1)	10.1 J	--	1.1 J	0.93 J	--	

(1) = Duplicate of B3-HP-2 (04-27-94)
(2) = Duplicate of B3-HP-2 (11-15-94)

(R) = Recra Environmental, Inc.
(L) = Lancaster Laboratories
µg/L = micrograms per liter
mg/L = milligrams per liter
D = Diluted
J = Estimated concentration
R = Rejected
U = Analyte not detected
UJ = Estimated concentration possibly biased low
W = Compound not detected by comparing extracted ion profile against NIST library
-- = Analyte not analyzed

PREPARED/DATE: DLG 6/29/95
CHECKED/DATE: LAS 7/12/95

TAB

Appendix D

APPENDIX D

RISK ASSESSMENT CALCULATION TABLES
Building 3 Drywell

LIST OF TABLES

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D.3	Industrial Workers - Dermal Contact with Ground Water
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Table D.1: Calculations of Risk from Ground Water
Industrial Workers - Ingestion of Ground Water
Building 3 Drywell Remedial Investigation
Griffiss Air Force Base, Rome, New York

Parameter	Exposure Point Concentration (mg/L)	Exposure Value Type [a]	Intake Factor (L/kg-d) [b]		Intake (mg/kg-d) [c]		Administered Toxicity Values [d]		Adult Hazard Quotient [e] (unitless)	Excess Cancer Risk [f] (unitless)
			Noncarc. (Adult)	Carcinogen (Lifetime)	Noncarc. (Adult)	Carcinogen (Lifetime)	Oral RfD (mg/kg-d)	Slope Factor (kg-d/mg)		
VOLATILES										
Chloroform	0.0011	Conc.	9.78E-03	3.49E-03	1.08E-05	3.84E-06	1.00E-02	6.10E-03	1.08E-03	2.34E-08
Tetrachloroethene	0.00026	Conc.	9.78E-03	3.49E-03	2.54E-06	9.07E-07	1.00E-02	5.20E-02	2.54E-04	4.72E-08
1,1,1-Trichloroethane	0.00082	Conc.	9.78E-03	3.49E-03	8.02E-06	2.86E-06	–	–	–	–
Trichloroethene	0.002	Conc.	9.78E-03	3.49E-03	1.96E-05	6.98E-06	6.00E-03	1.10E-02	3.26E-03	7.68E-08
SEMI-VOLATILES										
Anthracene	0.000011	Conc.	9.78E-03	3.49E-03	1.08E-07	3.84E-08	3.00E-01	–	3.59E-07	–
2,4-Dichlorophenol	0.000016	Conc.	9.78E-03	3.49E-03	1.56E-07	5.58E-08	3.00E-03	–	5.22E-05	–
Fluorene	0.000024	Conc.	9.78E-03	3.49E-03	2.35E-07	8.38E-08	4.00E-02	–	5.87E-06	–
N-Nitrosodiphenylamine	0.00007	Conc.	9.78E-03	3.49E-03	6.85E-07	2.44E-07	2.00E-02	4.90E-03	3.42E-05	1.20E-09
Phenanthrene	0.00012	Conc.	9.78E-03	3.49E-03	1.17E-06	4.19E-07	–	–	–	–
Pyrene	0.000047	Conc.	9.78E-03	3.49E-03	4.60E-07	1.64E-07	3.00E-02	–	1.53E-05	–
Simazine	0.000046	Conc.	9.78E-03	3.49E-03	4.50E-07	1.61E-07	5.00E-03	1.20E-01	9.00E-05	1.93E-08
								TOTAL:	0.005	2E-07

– Not available or applicable
a - "Conc." refers to the maximum detected concentration.
b - Intake Factors from Figure 5.7 of Volume 1
c - Intake = Exposure Point Concentration * Intake Factor
d - Toxicity Values from Table 5.4 of Volume 1
e - Hazard Quotient = Intake/RfD
f - Excess Cancer Risk (Carcinogens) = Intake * Slope Factor

PREPARED/DATE: CHR 7/31/95
CHECKED/DATE: LAS 8/1/95

Table D.2: Calculations of Risk from Ground Water
Industrial Workers - Inhalation of Volatiles
Building 3 Drywell Remedial Investigation
Griffiss Air Force Base, Rome, New York

Parameter	Exposure Point Concentration (mg/L)	Exposure Value Type [a]	Conversion Factor [b] (L/m^3)	Intake Factor [c] (m^3/kg-day)		Intake [d] (mg/kg-day)		Toxicity Values [e]		Adult Hazard Quotient [f] (unitless)	Excess Cancer Risk [g] (unitless)
				Noncarc. (Adult)	Carcinogen (Lifetime)	Noncarc. (Adult)	Carcinogen (Lifetime)	Inhalation RfD (mg/kg-d)	Inhalation Slope Factor (kg-d/mg)		
VOLATILES											
Chloroform	0.0011	Conc.	6.29E-03	4.89E-02	1.75E-02	3.38E-07	1.21E-07	–	8.05E-02	–	9.75E-09
Tetrachloroethene	0.00026	Conc.	6.29E-03	4.89E-02	1.75E-02	8.00E-08	2.86E-08	1.14E-01	2.03E-03	7.02E-07	5.81E-11
1,1,1-Trichloroethane	0.00082	Conc.	6.29E-03	4.89E-02	1.75E-02	2.52E-07	9.03E-08	2.86E-01	–	8.82E-07	–
Trichloroethene	0.002	Conc.	6.29E-03	4.89E-02	1.75E-02	6.15E-07	2.20E-07	–	6.00E-03	–	1.32E-09
									TOTAL:	2E-06	1E-08

– Not available or applicable
a - "Conc." refers to the maximum detected concentration.
b - Conversion factor from Box Model (see Figure 5.10 of Volume 1)
c - Intake Factors from Figure 5.8 of Volume 1
d - Intake = Exposure Point Concentration * Intake Factor
e - Toxicity Values from Table 5.4 of Volume 1
f - Hazard Quotient = Intake/RfD
g - Excess Cancer Risk (Carcinogens) = Intake * Slope Factor

PREPARED/DATE: SRT 8/16/96
CHECKED/DATE: EFC 8/16/96

Table D.3: Calculations of Risk from Ground Water
Industrial Workers - Dermal Contact With Ground Water
Building 3 Drywell Remedial Investigation
Griffiss Air Force Base, Rome, New York

Parameter	Exposure Point Concentration (mg/L)	Exposure Value Type [a]	Permeability Factor (cm/hr) [b]	Intake Factor (L-hr/kg-d-cm) [c]		Intake (mg/kg-d) [d]		Administered Toxicity Values [e]		Adult Hazard Quotient [f] (unitless)	Excess Cancer Risk [g] (unitless)
				Noncarc. (Adult)	Carcinogen (Lifetime)	Noncarc. (Adult)	Carcinogen (Lifetime)	Oral RfD (mg/kg-d)	Slope Factor (kg-d/mg)		
VOLATILES											
Chloroform	0.0011	Conc.	8.90E-03	6.01E-02	2.15E-02	5.88E-07	2.10E-07	1.00E-02	6.10E-03	5.88E-05	1.28E-09
Tetrachloroethene	0.00026	Conc.	4.80E-02	6.01E-02	2.15E-02	7.50E-07	2.68E-07	1.00E-02	5.20E-02	7.50E-05	1.40E-08
1,1,1-Trichloroethane	0.00082	Conc.	1.70E-02	6.01E-02	2.15E-02	8.38E-07	3.00E-07	--	--	--	--
Trichloroethene	0.002	Conc.	1.60E-02	6.01E-02	2.15E-02	1.92E-06	6.88E-07	6.00E-03	1.10E-02	3.21E-04	7.57E-09
SEMI-VOLATILES											
Anthracene	0.000011	Conc.	2.25E-01	6.01E-02	2.15E-02	1.49E-07	5.32E-08	3.00E-01	--	4.96E-07	--
2,4-Dichlorophenol	0.000016	Conc.	2.30E-02	6.01E-02	2.15E-02	1.52E-08	5.44E-09	3.00E-03	--	5.07E-06	--
Fluorene	0.000024	Conc.	1.55E-01	6.01E-02	2.15E-02	1.49E-07	5.34E-08	4.00E-02	--	3.73E-06	--
N-Nitrosodiphenylamine	0.00007	Conc.	1.96E-02	6.01E-02	2.15E-02	2.83E-08	1.01E-08	2.00E-02	4.90E-03	1.42E-06	4.97E-11
Phenanthrene	0.00012	Conc.	2.30E-01	6.01E-02	2.15E-02	9.68E-07	3.46E-07	--	--	--	--
Pyrene	0.000047	Conc.	3.24E-01	6.01E-02	2.15E-02	2.34E-06	8.37E-07	3.00E-02	--	7.80E-05	--
Simazine	0.000046	Conc.	1.32E-03	6.01E-02	2.15E-02	3.74E-09	1.34E-09	5.00E-03	1.20E-01	7.48E-07	1.60E-10
									TOTAL:	0.0005	2E-08

-- Not available or applicable

a - "Conc." refers to the maximum detected concentration.

b - Dermal Exposure Assessment - Principles and Applications (EPA, 1992) (see Table 5.3a of Volume 1)

c - Intake Factors from Figure 5.11 of Volume 1

d - Intake = Exposure Point Concentration * Permeability Factor * Intake Factor

e - Toxicity Values from Table 5.4 of Volume 1

f - Hazard Quotient = Intake/RfD

g - Excess Cancer Risk (Carcinogens) = Intake * Slope Factor

PREPARED/DATE: CHR 7/31/95
CHECKED/DATE: LAS 8/1/95

Table D.4: Ambient Air Concentrations of Volatile Organic Compounds Released from Ground Water During Industrial Use Building 3 Drywell Remedial Investigation Griffiss Air Force Base, Rome, New York

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Emission Rate of Volatile Organic Compounds from Ground Water:

$$Q = FR \times 3.8\ L/gal \times 1\ min/60 \times CGW = 0.63\ L/sec \times CGW\ (mg/L)$$

Q = Emission Rate (mg/sec)
FR = Flow Rate of ground water through the hose (assumed 10 gal/min)

CGW = Contaminant concentration in ground water (mg/L)

Concentration of Volatile Organic Compounds:

$$C_{air} = Q/(LS \times V \times M)$$

$$C_{air} = \frac{0.63\ L/sec \times CGW\ mg/L}{25\ m \times 2.015\ m/sec \times 2\ m} = 6.29 \times 10^{-3}$$

C_{air} = Constituent concentration in air (mg/m^3)
Q = Emission Rate (mg/sec)
LS = Width dimension of the contaminated area perpendicular to the prevailing wind direction (25 m)
V = Average wind speed in the mixing zone - one-half the average wind speed at the mixing height (2.015 m/s)
M = Mixing height (2 m)

Source: Hwang and Falco, 1986.

PREPARED/DATE: BLG 5/30/95
CHECKED/DATE: LAS 6/15/95

Summary of Reasonable Maximum Exposure Parameters and Intake Factors for Human Health Risk Assessment
Griffiss Air Force Base, Rome, New York

Exposure Parameters	Symbol	Recreational				Residential				Agricultural				Occupational				
		Adult	Adolescent	Youth	Child	Adult	Adolescent	Youth	Child	Adult	Adolescent	Youth	Child	Utility	Flightline Worker	Construction Worker	Landscaper Worker	Industrial Worker
Exposure Frequency (days/year)	EF	175	175	175	175	350	350	350	350	350	350	350	350	39	175	250	175	250
Exposure Duration (years)	ED	30	6	6	6	30	6	6	6	30	6	6	6	25	25	1	25	25
Carcinogens-Adult		12	NA	NA	NA	12	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA
Body Weight (kg)	BW	70	61	36	15	70	61	36	15	70	61	36	15	70	70	70	70	70
Averaging Time (days)	AT																	
Noncarcinogens		10,950	2,190	2,190	2,190	10,950	2,190	2,190	2,190	10,950	2,190	2,190	2,190	9,125	9,125	365	9,125	9,125
Carcinogens		25,550	NA	NA	NA	25,550	NA	NA	NA	25,550	NA	NA	NA	25,550	25,550	25,550	25,550	25,550
Conversion Factors																		
Converts milligrams to kilograms (kg/mg)	CF_1	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06
Converts cubic centimeters to liters (L/cm^3)	CF_2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Incidental Ingestion of Soils. (Intake Factor = IR_s * EF * ED * CF_1 * FI / (BW * AT) (Noncarcinogens), Intake Factor = IR_{adj} * CF_1 * FI / AT (carcinogens))																		
Soil or Sediment Ingestion Rate (mg/day)	IR_s	100	100	100	200	NA	NA	NA	NA	NA	NA	NA	NA	100	50	480	100	NA
Fraction Ingested from Source (unitless)	FI	1	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1	1	NA
Age-Adjusted Intake Factor (mg/kg body weight)[1]	IR_{adj}	21638	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor (Noncarcinogens) ($days^{-1}$)		6.85E-07	7.86E-07	1.33E-06	6.39E-06	NA	NA	NA	NA	NA	NA	NA	NA	1.53E-07	3.42E-07	4.70E-06	6.85E-07	NA
Intake Factor (Carcinogens) (day^{-1})		8.47E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.45E-08	1.22E-07	6.71E-08	2.45E-07	NA
Inhalation of Airborne (Vapor Phase) Chemicals. (Intake Factor = InhR * EF * ED / (BW * AT))																		
Inhalation Rate (m^3/day)	InhR	3.9	8.4	8.8	8	20	21	24	16	20	21	24	16	20	20	20	20	NA
Intake Factor (Noncarcinogens) (m^3/kg-day)		2.67E-02	6.60E-02	1.17E-01	2.56E-01	2.74E-01	3.30E-01	6.39E-01	1.02E+00	2.74E-01	3.30E-01	6.39E-01	1.02E+00	3.05E-02	1.37E-01	1.96E-01	1.37E-01	NA
Intake Factor (Carcinogens) (m^3/kg-day)		1.14E-02	NA	NA	NA	1.17E-01	NA	NA	NA	1.17E-01	NA	NA	NA	1.09E-02	4.89E-02	2.80E-03	4.89E-02	NA
Inhalation of Fugitive Dust: (Intake Factor = InhR * EF_{dust} * ED / (BW * AT))																		
Exposure Frequency for Dust (days/year)	EF_{dust}	175	175	175	175	245	245	245	245	245	245	245	245	39	175	250	175	250
Intake Factor (Noncarcinogens) (m^3/kg-day)		2.67E-02	6.60E-02	1.17E-01	2.56E-01	1.92E-01	2.31E-01	4.47E-01	7.16E-01	1.92E-01	2.31E-01	4.47E-01	7.16E-01	3.05E-02	1.37E-01	1.96E-01	1.37E-01	NA
Intake Factor (Carcinogens) (m^3/kg-day)		1.14E-02	NA	NA	NA	8.22E-02	NA	NA	NA	8.22E-02	NA	NA	NA	1.09E-02	4.89E-02	2.80E-03	4.89E-02	NA
Dermal Contact with Soils. (Intake Factor = SA_s * AF * ABS * EF * ED * CF_1 / (BW * AT))																		
Surface Area of Exposed Skin (cm^2/day)	SA_s	5,080	4,944	3,701	1,914	NA	NA	NA	NA	NA	NA	NA	NA	3,070	2,020	3,070	3,070	NA
Soil to Skin Adherence Factor (mg/cm^2)	AF	1	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1	1	NA
Absorption Factor (unitless)																		
Dioxins	ABS_d	0.03	0.03	0.03	0.03	NA	NA	NA	NA	NA	NA	NA	NA	0.03	0.03	0.03	0.03	NA
Cadmium	ABS_c	0.001	0.001	0.001	0.001	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.001	0.001	NA
PCBs	ABS_b	0.06	0.06	0.06	0.06	NA	NA	NA	NA	NA	NA	NA	NA	0.06	0.06	0.06	0.06	NA
Arsenic	ABS_a	0.03	0.03	0.03	0.03	NA	NA	NA	NA	NA	NA	NA	NA	0.03	0.03	0.03	0.03	NA
Pentachlorophenol	ABS_p	0.25	0.25	0.25	0.25	NA	NA	NA	NA	NA	NA	NA	NA	0.25	0.25	0.25	0.25	NA
Intake Factor - Dioxins (Noncarcinogens) (day^{-1})		1.04E-06	1.17E-06	1.48E-06	1.84E-06	NA	NA	NA	NA	NA	NA	NA	NA	1.41E-07	4.15E-07	9.01E-07	6.31E-07	NA
Intake Factor - Dioxins (Carcinogens) (day^{-1})		4.47E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.02E-08	1.48E-07	1.29E-08	2.25E-07	NA
Intake Factor - Cadmium (Noncarcinogens) (day^{-1})		3.48E-08	3.89E-08	4.93E-08	6.12E-08	NA	NA	NA	NA	NA	NA	NA	NA	4.69E-09	1.38E-08	3.00E-08	2.10E-08	NA
Intake Factor - Cadmium (Carcinogens) (day^{-1})		1.49E-08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.67E-09	4.94E-09	4.29E-10	7.51E-09	NA
Intake Factor - PCBs (Noncarcinogens) (day^{-1})		2.09E-06	2.33E-06	2.96E-06	3.67E-06	NA	NA	NA	NA	NA	NA	NA	NA	2.81E-07	8.30E-07	1.80E-06	1.26E-06	NA
Intake Factor - PCBs (Carcinogens) (day^{-1})		8.95E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.00E-07	2.96E-07	2.57E-08	4.51E-07	NA
Intake Factor - Arsenic (Noncarcinogens) (day^{-1})		1.04E-06	1.17E-06	1.48E-06	1.84E-06	NA	NA	NA	NA	NA	NA	NA	NA	1.41E-07	4.15E-07	9.01E-07	6.31E-07	NA
Intake Factor - Arsenic (Carcinogens) (day^{-1})		4.47E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.02E-08	1.48E-07	1.29E-08	2.25E-07	NA
Intake Factor - Pentachlorophenol (Noncarcinogens) (day^{-1})		8.70E-06	9.71E-06	1.23E-05	1.53E-05	NA	NA	NA	NA	NA	NA	NA	NA	1.17E-06	3.46E-06	7.51E-06	5.26E-06	NA
Intake Factor - Pentachlorophenol (Carcinogens) (day^{-1})		3.73E-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.18E-07	1.24E-06	1.07E-07	1.88E-06	NA

Summary of Reasonable Maximum Exposure Parameters and Intake Factors for Human Health Risk Assessment
Griffiss Air Force Base, Rome, New York

Exposure Parameters	Symbol	Recreational				Residential				Agricultural				Occupational				
		Adult	Adolescent	Youth	Child	Adult	Adolescent	Youth	Child	Adult	Adolescent	Youth	Child	Utility	Flightline Worker	Construction Worker	Landscaper Worker	Industrial Worker
Ingestion of Ground Water. [Intake Factor = (IR_{gw} * EF * ED) / (BW * AT) (Noncarcinogens); Intake Factor = IR_{adj} / AT (carcinogens)]																		
Ingestion Rate of Ground Water (L/day)	IR_{gw}	NA	NA	NA	NA	2	2	2	1	2	2	2	1	NA	NA	NA	NA	1
Age-Adjusted Intake Factor (L/kg)[1]	IR_{adj}	NA	NA	NA	NA	446	NA	NA	NA	446	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor (Noncarcinogens) (L/kg-day)		NA	NA	NA	NA	2 74E-02	3 14E-02	5.33E-02	6 39E-02	2 74E-02	3 14E-02	5 33E-02	6 39E-02	NA	NA	NA	NA	9.78E-03
Intake Factor (carcinogens) (L/kg-day)		NA	NA	NA	NA	1.74E-02	NA	NA	NA	1 74E-02	NA	NA	NA	NA	NA	NA	NA	3.49E-03
Inhalation of Airborne (Vapor Phase) Chemicals from Ground Water while Showering. (Intake Factor = EF * ED / AT)																		
Intake Factor (Noncarcinogens) (unitless)		NA	NA	NA	NA	9 59E-01	9.59E-01	9 59E-01	9 59E-01	9 59E-01	9 59E-01	9 59E-01	9 59E-01	NA	NA	NA	NA	NA
Intake Factor (carcinogens) (unitless)		NA	NA	NA	NA	4.11E-01	NA	NA	NA	4 11E-01	NA	NA	NA	NA	NA	NA	NA	NA
Inhalation of Airborne (Vapor Phase) Chemicals from Ground Water while Truck Washing. [Intake Factor = InhR * ET * EF * ED / (BW * AT)]																		
Inhalation Rate (m^3/hour)	InhR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2 5
Exposure Time (hours/day)	ET	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2
Intake Factor (Noncarcinogens) (m^3/kg-day)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4 89E-02
Intake Factor (carcinogens) (unitless) (m^3/kg-day)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 75E-02
Dermal Contact with Ground Water. (Intake Factor = SA * ET * EF * ED * CF_2 / (BW * AT))																		
Surface Area of Exposed Skin (cm^2)	SA	NA	NA	NA	NA	18,150	13,550	10,425	7,195	18,150	13,550	10,425	7,195	NA	NA	NA	NA	3,070
Exposure Time (hours/day)	ET	NA	NA	NA	NA	0.25	0 25	0.25	0.25	0.25	0.25	0.25	0.25	NA	NA	NA	NA	2
Intake Factor (Noncarcinogens) (hour-L/kg-day-cm)		NA	NA	NA	NA	6 22E-02	5 33E-02	6 94E-02	1 15E-01	6 22E-02	5 33E-02	6 94E-02	1 15E-01	NA	NA	NA	NA	6 01E-02
Intake Factor (carcinogens) (hour-L/kg-day-cm)		NA	NA	NA	NA	2.66E-02	NA	NA	NA	2 66E-02	NA	NA	NA	NA	NA	NA	NA	2 15E-02
Ingestion of Contaminated Fruits and Vegetables. [Intake Factor = $IngR_c$ * FI_{crop} * EF * ED / (BW * AT) (Noncarcinogens); Intake Factor = IR_{adj} * FI_{crop} / AT (carcinogens)]																		
Ingestion Rate Root Crops (kg/day)	IR_{root}	NA	NA	NA	NA	0.02	0 02	0 02	0 01	0 02	0 02	0 02	0 01	NA	NA	NA	NA	NA
Ingestion Rate Leaf/Stem Crops (kg/day)	IR_{leaf}	NA	NA	NA	NA	0 102	0.102	0.102	0 051	0.102	0 102	0.102	0 051	NA	NA	NA	NA	NA
Fraction Ingested from Source (unitless)	FI_{crop}	NA	NA	NA	NA	0 5	0 5	0 5	0 5	0 8	0 8	0 8	0 8	NA	NA	NA	NA	NA
Age-Adjusted Intake Factor - Root Crops (mg/kg)[1]	IR_{adj}	NA	NA	NA	NA	4 46	NA	NA	NA	4 46	NA	NA	NA	NA	NA	NA	NA	NA
Age-Adjusted Intake Factor - Leaf/Stem Crops (mg/kg)[1]	IR_{adj}	NA	NA	NA	NA	22 7	NA	NA	NA	22 7	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor (Noncarcinogens (day^{-1})																		
Root Crops		NA	NA	NA	NA	1 37E-04	1 57E-04	2.66E-04	3 20E-04	2.19E-04	2 52E-04	4 26E-04	5.11E-04	NA	NA	NA	NA	NA
Leaf/Stem Crops		NA	NA	NA	NA	6.99E-04	8.02E-04	1.36E-03	1 63E-03	1.12E-03	1 28E-03	2.17E-03	2.61E-03	NA	NA	NA	NA	NA
Intake Factor (carcinogens) (day^{-1})																		
Root Crops		NA	NA	NA	NA	8 72E-05	NA	NA	NA	1 39E-04	NA	NA	NA	NA	NA	NA	NA	NA
Leaf/Stem Crops		NA	NA	NA	NA	4 45E-04	NA	NA	NA	7.11E-04	NA	NA	NA	NA	NA	NA	NA	NA
Incidental Ingestion of Surface Water. [Intake Factor = IR_{sw} * EF_{sw} * ED / (BW * AT) (Noncarcinogens), Intake Factor = IR_{adj} / AT (carcinogens)]																		
Ingestion Rate of Surface Water (L/event)	IR_{sw}	0 05	0 05	0 05	0 05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Exposure Frequency for Swimming (events/year)	EF_{sw}	26	26	26	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Age-Adjusted Ingestion Rate for Swimming (L/kg)[1]	IR_{adj}	1 09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor (Noncarcinogens) (L/kg-day)		5.09E-05	5.84E-05	9.89E-05	2 37E-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor (carcinogens) (L/kg-day)		4.26E-05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dermal Contact with Surface Water. [Intake Factor = SA_{sw} * ET * EF_{sw} * ED * CF_2 / (BW * AT)]																		
Surface Area of Exposed Skin (cm^2)	SA_{sw}	3,050	5,628	3,480	2,255	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Exposure Time (hours/event)	ET	1	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor (Noncarcinogens) (hour-L/kg-day-cm)		3 10E-03	6 57E-03	6 89E-03	1 07E-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor (carcinogens) (hour-L/kg-day-cm)		1 33E-03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Summary of Reasonable Maximum Exposure Parameters and Intake Factors for Human Health Risk Assessment
Griffiss Air Force Base, Rome, New York

Exposure Parameters	Symbol	Recreational				Residential				Agricultural				Occupational				
		Adult	Adolescent	Youth	Child	Adult	Adolescent	Youth	Child	Adult	Adolescent	Youth	Child	Utility	Flightline Worker	Construction Worker	Landscaper Worker	Industrial Worker
Incidental Ingestion of Sediment. [Intake Factor = IR_s * EF_{ss} * FI * ED * CF_1 / (BW * AT) (Noncarcinogens); Intake Factor = IR_{sa} * FI * CF_1 / AT (carcinogens)]																		
Age-Adjusted Intake Factor (mg/kg)[1]	IR_{sa}	3210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor (Noncarcinogens) (day^{-1})		1.02E-07	1.17E-07	1.98E-07	9.50E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor (carcinogens) (day^{-1})		1.26E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dermal Contact with Sediment. [Intake factor = SA_{ss} * AF * ABS * EF_{ss} * ED * CF_1 / (BW * AT)]																		
Intake Factor - Dioxins (Noncarcinogens) (day^{-1})		9.31E-08	1.97E-07	2.07E-07	3.21E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Dioxins (Carcinogens) (day^{-1})		3.99E-08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Cadmium (Noncarcinogens) (day^{-1})		3.10E-09	6.57E-09	6.89E-09	1.07E-08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Cadmium (Carcinogens) (day^{-1})		1.33E-09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - PCBs (Noncarcinogens) (day^{-1})		1.86E-07	3.94E-07	4.13E-07	6.43E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - PCBs (Carcinogens) (day^{-1})		7.98E-08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Arsenic (Noncarcinogens) (day^{-1})		9.31E-08	1.97E-07	2.07E-07	3.21E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Arsenic (Carcinogens) (day^{-1})		3.99E-08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Pentachlorophenol (Noncarcinogens) (day^{-1})		7.76E-07	1.64E-06	1.72E-06	2.68E-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Pentachlorophenol (Carcinogens) (day^{-1})		3.33E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

1 - Ingestion rates for residential, recreational, and agricultural adults are age-adjusted based on child, youth, adolescent exposures (total 18 years) and a 12-year adult exposure

$$IR_{adj} = \frac{IR_c \cdot EF_c \cdot ED_c}{BW_c} + \frac{IR_y \cdot EF_y \cdot ED_y}{BW_y} + \frac{IR_{ad} \cdot EF_{ad} \cdot ED_{ad}}{BW_{ad}} + \frac{IR_a \cdot EF_a \cdot ED_a}{BW_a}$$

Subscripts "c", "y", "ad", and "a" denote child, youth, adolescent, and adult, respectively

Summary of Central Tendency Exposure Parameters and Intake Factors for Human Health Risk Assessment
Griffiss Air Force Base, Rome, New York

Exposure Parameters	Symbol	Recreational				Residential				Agricultural				Occupational				
		Adult	Adolescent	Youth	Child	Adult	Adolescent	Youth	Child	Adult	Adolescent	Youth	Child	Utility	Flightline Worker	Construction Worker	Landscaper Worker	Industrial Worker
Exposure Frequency (days/year)	EF	175	175	175	175	350	350	350	350	350	350	350	350	39	175	250	175	250
Exposure Duration (years)	ED	30	6	6	6	9	6	6	6	9	6	6	6	10	10	1	10	10
Body Weight (kg)	BW	70	61	36	15	70	61	36	15	70	61	36	15	70	70	70	70	70
Averaging Time (days)	AT																	
Noncarcinogens		10,950	2,190	2,190	2,190	3,285	2,190	2,190	2,190	3,285	2,190	2,190	2,190	3,650	3,650	365	3,650	3,650
Carcinogens		25,550	NA	NA	NA	25,550	NA	NA	NA	25,550	NA	NA	NA	25,550	25,550	25,550	25,550	25,550
Conversion Factors																		
Converts milligrams to kilograms (kg/mg)	CF_1	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06
Converts cubic centimeters to liters (L/cm^3)	CF_2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Incidental Ingestion of Soils [Intake Factor = IR_s * EF * ED * CF_1 * FI / (BW * AT)]																		
Soil or Sediment Ingestion Rate (mg/day)	IR_s	100	100	100	200	NA	NA	NA	NA	NA	NA	NA	NA	100	50	100	100	NA
Fraction Ingested from Source (unitless)	FI	1	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1	1	NA
Intake Factor (Noncarcinogens) ($days^{-1}$)		6.85E-07	7.86E-07	1.33E-06	6.39E-06	NA	NA	NA	NA	NA	NA	NA	NA	1.53E-07	3.42E-07	9.78E-07	6.85E-07	NA
Intake Factor (Carcinogens) (day^{-1})		2.94E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.18E-08	4.89E-08	1.40E-08	9.78E-08	NA
Dermal Contact with Soils (Intake Factor = SA_s * AF * ABS * EF * ED * CF_1 / (BW * AT))																		
Surface Area of Exposed Skin (cm^2/day)	SA_s	5,080	4,944	3,701	1,914	NA	NA	NA	NA	NA	NA	NA	NA	3,070	2,020	3,070	3,070	NA
Soil to Skin Adherence Factor (mg/cm^2)	AF	1	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1	1	NA
Absorption Factor (unitless)																		
Dioxins	ABS_d	0.03	0.03	0.03	0.03	NA	NA	NA	NA	NA	NA	NA	NA	0.03	0.03	0.03	0.03	NA
Cadmium	ABS_c	0.001	0.001	0.001	0.001	NA	NA	NA	NA	NA	NA	NA	NA	0.001	0.001	0.001	0.001	NA
PCBs	ABS_p	0.06	0.06	0.06	0.06	NA	NA	NA	NA	NA	NA	NA	NA	0.06	0.06	0.06	0.06	NA
Arsenic	ABS_a	0.03	0.03	0.03	0.03	NA	NA	NA	NA	NA	NA	NA	NA	0.03	0.03	0.03	0.03	NA
Pentachlorophenol	ABS_p	0.25	0.25	0.25	0.25	NA	NA	NA	NA	NA	NA	NA	NA	0.25	0.25	0.25	0.25	NA
Intake Factor - Dioxins (Noncarcinogens) (day^{-1})		1.04E-06	1.17E-06	1.48E-06	1.84E-06	NA	NA	NA	NA	NA	NA	NA	NA	1.41E-07	4.15E-07	9.01E-07	6.31E-07	NA
Intake Factor - Dioxins (Carcinogens) (day^{-1})		4.47E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.01E-08	5.93E-08	1.29E-08	9.01E-08	NA
Intake Factor - Cadmium (Noncarcinogens) (day^{-1})		3.48E-08	3.89E-08	4.93E-08	6.12E-08	NA	NA	NA	NA	NA	NA	NA	NA	4.69E-09	1.38E-08	3.00E-08	2.10E-08	NA
Intake Factor - Cadmium (Carcinogens) (day^{-1})		1.49E-08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.69E-10	1.98E-09	4.29E-10	3.00E-09	NA
Intake Factor - PCBs (Noncarcinogens) (day^{-1})		2.09E-06	2.33E-06	2.96E-06	3.67E-06	NA	NA	NA	NA	NA	NA	NA	NA	2.81E-07	8.30E-07	1.80E-06	1.26E-06	NA
Intake Factor - PCBs (Carcinogens) (day^{-1})		8.95E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.02E-08	1.19E-07	2.57E-08	1.80E-07	NA
Intake Factor - Arsenic (Noncarcinogens) (day^{-1})		1.04E-06	1.17E-06	1.48E-06	1.84E-06	NA	NA	NA	NA	NA	NA	NA	NA	1.41E-07	4.15E-07	9.01E-07	6.31E-07	NA
Intake Factor - Arsenic (Carcinogens) (day^{-1})		4.47E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.01E-08	5.93E-08	1.29E-08	9.01E-08	NA
Intake Factor - Pentachlorophenol (Noncarcinogens) (day^{-1})		8.70E-06	9.71E-06	1.23E-05	1.53E-05	NA	NA	NA	NA	NA	NA	NA	NA	1.17E-06	3.46E-06	7.51E-06	5.26E-06	NA
Intake Factor - Pentachlorophenol (Carcinogens) (day^{-1})		3.73E-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.67E-07	4.94E-07	1.07E-07	7.51E-07	NA
Ingestion of Ground Water [Intake Factor = (IR_{gw} * EF * ED) / (BW * AT)]																		
Ingestion Rate of Ground Water (L/day)	IR_{gw}	NA	NA	NA	NA	1.4	1.4	1.4	0.9	1.4	1.4	1.4	0.9	NA	NA	NA	NA	0.7
Intake Factor (Noncarcinogens) (L/kg-day)		NA	NA	NA	NA	1.92E-02	2.20E-02	3.73E-02	5.75E-02	1.92E-02	2.20E-02	3.73E-02	5.75E-02	NA	NA	NA	NA	6.85E-03
Intake Factor (carcinogens) (L/kg-day)		NA	NA	NA	NA	2.47E-03	NA	NA	NA	2.47E-03	NA	NA	NA	NA	NA	NA	NA	9.78E-04
Inhalation of Airborne (Vapor Phase) Chemicals from Ground Water while Showering: (Intake Factor = EF * ED / AT)																		
Intake Factor (Noncarcinogens) (unitless)		NA	NA	NA	NA	9.59E-01	9.59E-01	9.59E-01	9.59E-01	9.59E-01	9.59E-01	9.59E-01	9.59E-01	NA	NA	NA	NA	NA
Intake Factor (carcinogens) (unitless)		NA	NA	NA	NA	1.23E-01	NA	NA	NA	1.23E-01	NA	NA	NA	NA	NA	NA	NA	NA

Summary of Central Tendency Exposure Parameters and Intake Factors for Human Health Risk Assessment
Griffiss Air Force Base, Rome, New York

Exposure Parameters	Symbol	Recreational				Residential				Agricultural				Occupational				
		Adult	Adolescent	Youth	Child	Adult	Adolescent	Youth	Child	Adult	Adolescent	Youth	Child	Utility	Flightline Worker	Construction Worker	Landscaper Worker	Industrial Worker
Inhalation of Airborne (Vapor Phase) Chemicals from Ground Water while Truck Washing: [Intake Factor = InhR * ET * EF * ED / (BW * AT)]																		
Inhalation Rate (m^3/hour)	InhR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.7
Exposure Time (hours/day)	ET	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2
Intake Factor (Noncarcinogens) (m^3/kg-day)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.33E-02
Intake Factor (carcinogens) (unitless) (m^3/kg-day)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.75E-03
Dermal Contact with Ground Water: (Intake Factor = SA * ET * EF * ED * CF_3 / (BW * AT))																		
Surface Area of Exposed Skin (cm^2)	SA	NA	NA	NA	NA	18,150	13,550	10,425	7,195	18,150	13,550	10,425	7,195	NA	NA	NA	NA	3,070
Exposure Time (hours/day)	ET	NA	NA	NA	NA	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	NA	NA	NA	NA	2
Intake Factor (Noncarcinogens) (hour-L/kg-day-cm)		NA	NA	NA	NA	6.22E-02	5.33E-02	6.94E-02	1.15E-01	6.22E-02	5.33E-02	6.94E-02	1.15E-01	NA	NA	NA	NA	6.01E-02
Intake Factor (carcinogens) (hour-L/kg-day-cm)		NA	NA	NA	NA	7.99E-03	NA	NA	NA	7.99E-03	NA	NA	NA	NA	NA	NA	NA	8.58E-03
Ingestion of Contaminated Fruits and Vegetables: [Intake Factor = $IngR_c$ * FI_{crop} * EF * ED / (BW * AT)]																		
Ingestion Rate Root Crops (kg/day)	IR_{root}	NA	NA	NA	NA	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.01	NA	NA	NA	NA	NA
Ingestion Rate Leaf/Stem Crops (kg/day)	IR_{leaf}	NA	NA	NA	NA	0.102	0.102	0.102	0.051	0.102	0.102	0.102	0.051	NA	NA	NA	NA	NA
Fraction Ingested from Source (unitless)	FI_{crop}	NA	NA	NA	NA	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	NA	NA	NA	NA	NA
Intake Factor (Noncarcinogens) (day^{-1})																		
Root Crops		NA	NA	NA	NA	1.37E-04	1.57E-04	2.66E-04	3.20E-04	2.19E-04	2.52E-04	4.26E-04	5.11E-04	NA	NA	NA	NA	NA
Leaf/Stem Crops		NA	NA	NA	NA	6.99E-04	8.02E-04	1.36E-03	1.63E-03	1.12E-03	1.28E-03	2.17E-03	2.61E-03	NA	NA	NA	NA	NA
Intake Factor (carcinogens) (day^{-1})																		
Root Crops		NA	NA	NA	NA	1.76E-05	NA	NA	NA	2.82E-05	NA	NA	NA	NA	NA	NA	NA	NA
Leaf/Stem Crops		NA	NA	NA	NA	8.98E-05	NA	NA	NA	1.44E-04	NA	NA	NA	NA	NA	NA	NA	NA
Incidental Ingestion of Sediment: [Intake Factor = IR_s * EF_{ss} * FI * ED * CF_1 / (BW * AT)]																		
Exposure Frequency for Swimming (events/year)	EF_{ss}	26	26	26	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor (Noncarcinogens) (day^{-1})		1.02E-07	1.17E-07	1.98E-07	9.50E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor (carcinogens) (day^{-1})		4.36E-08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dermal Contact with Sediment: [Intake factor = SA_{ss} * AF * ABS * EF_{ss} * ED * CF_1 / (BW * AT)]																		
Surface Area of Exposed Skin (cm^2)	SA_{ss}	3,050	5,628	3,480	2,255	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Dioxins (Noncarcinogens) (day^{-1})		9.31E-08	1.97E-07	2.07E-07	3.21E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Dioxins (Carcinogens) (day^{-1})		3.99E-08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Cadmium (Noncarcinogens) (day^{-1})		3.10E-09	6.57E-09	6.89E-09	1.07E-08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Cadmium (Carcinogens) (day^{-1})		1.33E-09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - PCBs (Noncarcinogens) (day^{-1})		1.86E-07	3.94E-07	4.13E-07	6.43E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - PCBs (Carcinogens) (day^{-1})		7.98E-08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Arsenic (Noncarcinogens) (day^{-1})		9.31E-08	1.97E-07	2.07E-07	3.21E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Arsenic (Carcinogens) (day^{-1})		3.99E-08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Pentachlorophenol (Noncarcinogens) (day^{-1})		7.76E-07	1.64E-06	1.72E-06	2.68E-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Intake Factor - Pentachlorophenol (Carcinogens) (day^{-1})		3.33E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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ADMINISTRATIVE RECORD

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APPENDIX B

Final Records of Decision for Areas of Concern (AOCs)

Former Griffiss Air Force Base
Rome, New York

November 2004



- Building 3 (DP-11)
- Lot 69 (SS-17)
- Electrical Power Substation (SS-44)

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AFBCA/DR
1700 North Moore Street, Suite 2300
Arlington, VA 22209-2802

Re: Records of Decision - Building 3, Lot 69 & Electric Power Substation
Griffiss Air Force Base, Rome, New York

Dear Ms. Halvorson:

This is to inform you that after considering public comments on the Proposed Plans, Griffiss Air Force Base's responsiveness summary to those comments, the Draft Records of Decision and other supporting documents, the U.S. Environmental Protection Agency (EPA) concurs with the Records of Decision for Building 3, Lot 69 and the Electric Power Substation. I have co-signed the copies of the Records of Decision on behalf of EPA and have mailed the signed Records of Decision to the New York State Department of Environmental Conservation and to Griffiss AFB.

The Records of Decision for the sites require the following: 1) institutional controls restricting the use of the site to industrial/commercial; 2) prohibiting the use of groundwater unless approval from the New York State Department of Health is received; and 3) joint 5-year reviews of the remedy.

These Records of Decision address only the above mentioned areas of concern. All other areas of Griffiss Air Force Base are being addressed under separate operable units.

If you have any questions regarding the subject of this letter, please contact me at (212) 637-4405 or have your staff contact Douglas Pocze at (212) 637-4432.

Sincerely,

William McCabe,
Acting Director,
Emergency and Remedial Response Division

cc: Mr. Dale A. Desnoyers, Director, NYSDEC w/encl.

DEPARTMENT OF THE AIR FORCE
AIR FORCE REAL PROPERTY AGENCY

U.S. EPA, REGION II
EMER. & REM. RES. BR.
2004 DEC 21 AM 7:29
DIRECTOR'S OFFICE
DEC 20 2004

AFRPA/DR
1700 North Moore Street, Suite 2300
Arlington, VA 22209-2802

Mr. William McCabe
Acting Director
Emergency & Remedial Response Division
U.S. EPA, Region II
290 Broadway - 26th Floor
New York, NY 10007-1866

Dear Mr. McCabe,

We are pleased to forward for your signature the Records of Decision (RODs) for the Building 3 Drywell Area of Concern (DP-11), the Lot 69 Area of Concern (SS-17), and the Electrical Power Substation Area of Concern (SS-44) at the former Griffiss Air Force Base (AFB), New York. These RODs represent another milestone in the successful clean up of Griffiss AFB and is a result of our partnership with the State of New York and U. S. Environmental Protection Agency. We would like to thank Mr. Douglas Pocze for his assistance in accomplishing these RODs.

After signature, please retain one copy of each ROD for your records. Forward one copy of each ROD to New York State Department of Environmental Conservation, Attn: Ms. Heather Bishop, Bureau of Eastern Remedial Action, 625 Broadway, 11th Floor, Albany, NY 12233-7015, and send the final copy of each ROD to the Air Force Real Property Agency/Griffiss, Attn: Mr. Michael F. McDermott, 153 Brooks Road, Rome, NY 13441-4105.

Our point of contact for this effort is Mr. James Waldron, our Environmental Coordinator for Griffiss who can be reached at (703) 696-5243.

Sincerely

Kathryn M. Halvorson

KATHRYN M. HALVORSON
Director

Attachment:
RODs, Building 3 (DP-11), Lot 69 (SS-17), and
Electrical Power Substation (SS-44)

DEPARTMENT OF THE AIR FORCE
AIR FORCE REAL PROPERTY AGENCY

November 5, 2004

MEMORANDUM FOR Mr. James Waldron
AFRPA/DA-EC
1400 Key Blvd., 4th Floor
Arlington, VA 22209

FROM: AFRPA/DA-Griffiss
153 Brooks Road
Rome, NY 13441-4105

SUBJECT: Submittal - Final Records of Decision for Area of Concern Sites
Building 3, Lot 69, Electrical Power Substation

1. Enclosed, please find the final Records of Decision (RODs) for Area of Concern Sites (AOCs) Building 3 Drywell (DP-11), Lot 69 (SS-17) and Electrical Power Substation (SS-44). Please forward to the Acting Director for her signature and send three (3) signed copies to the U.S. Environmental Protection Agency, Region II.

2. If you have any questions, please contact Cathy Jerrard at (315) 330-2275.

for MICHAEL F. MCDERMOTT
Site Manager/BRAC Environmental Coordinator

Enclosure: Final RODs for AOCs Building 3 Drywell, Lot 69, Electrical Power Substation

New York State Department of Environmental Conservation
Division of Environmental Remediation, 12th Floor
625 Broadway, Albany, New York 12233-7011
Phone: (518) 402-9706 • **FAX:** (518) 402-9020
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

SEP 10 2004

Mr. George Pavlou
Director
Emergency & Remedial Response Division
US Environmental Protection Agency
Floor 19 - #E38
290 Broadway
New York, New York 10007-1866

RE: Former Griffiss Air Force Base, Site #633006
August 2004 Records of Decision (RODs):
Record of Decision Lot 69 Area of Concern
Record of Decision Building 3 Drywell Area of Concern
Record of Decision Electrical Power Substation Area of Concern

Dear Mr. Pavlou:

The New York State Department of Environmental Conservation and the New York State Department of Health have reviewed the three August 2004 Record of Decision (ROD) documents for the above Areas of Concern at the Former Griffiss Air Force Base. The State concurs with the selected actions in each of the RODs involving the application of industrial / commercial land use and groundwater use restrictions.

If you have any questions, please contact Dr. Chittibabu Vasudevan at (518) 402-9625.

Sincerely,

Dale A. Desnoyers
Director
Division of Environmental Remediation

cc: J. Malleck, USEPA
D. Pocze, USEPA
M. McDermott, AFRPA/DA



Final
Record of Decision for the Building 3 Drywell Area of Concern (DP-11) at the Former Griffiss Air Force Base Rome, New York

November 2004

AIR FORCE REAL PROPERTY AGENCY

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List of Abbreviations and Acronyms

AFB	Air Force Base
AFRPA	Air Force Real Property Agency (formerly Air Force Base Conversion Agency)
AOC	Area of Concern
ARAR	Applicable or Relevant and Appropriate Requirements
ATSDR	Agency for Toxic Substances and Disease Registry
BGS	below ground surface
BRAC	Base Realignment and Closure Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COPCs	chemicals of potential concern
DBCRA	Defense Base Closure and Realignment Act
DoD	United States Department of Defense
EIS	Environmental Impact Statement
EPA	United States Environmental Protection Agency
FFA	Federal Facility Agreement
HI	Hazard Index
HQ	Hazard Quotient
IRP	Installation Restoration Program
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NPL	National Priorities List
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCB	polychlorinated biphenyl
RI	remedial investigation
ROD	Record of Decision
SARA	Superfund Amendments and Reauthorization Act
SVOC	semivolatile organic compound
VOC	volatile organic compound

1 Declaration

1.1 Site Name and Location

The Building 3 Drywell Area of Concern (AOC) (site identification designation DP-11) is located at the former Griffiss Air Force Base (AFB) in Rome, Oneida County, New York.

1.2 Statement of Basis and Purpose

This Record of Decision (ROD) presents land and groundwater use restrictions as the Selected Remedy for the Building 3 Drywell AOC at the former Griffiss AFB. This alternative has been chosen in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA), and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The remedy has been selected by the United States Air Force (Air Force), in conjunction with the United States Environmental Protection Agency (EPA), and with the concurrence of the New York State Department of Environmental Conservation (NYSDEC) pursuant to the Federal Facility Agreement (FFA) among the parties under Section 120 of CERCLA. This decision is based on the administrative record file for this site.

1.3 Assessment of the Site

The response action selected in this ROD is necessary to protect the public health or welfare or the environment from actual or threatened release of hazardous substances from the AOC into the environment.

1.4 Description of Selected Remedy

The Selected Remedy for the Building 3 Drywell AOC is land use restrictions for industrial/commercial use and groundwater use restrictions. Land and groundwater use restrictions will be implemented to minimize the exposure of any future users of the property including Air Force personnel, lessees/sublessees, transferees, and construction workers to any remaining hazardous substances located on the property encompassed by the Building 3 Drywell AOC. Under the Base Realignment and Closure Act (BRAC) 1993 realignment, this site is located on property that is being retained by the United States Department of Defense (DoD) and is being utilized by the Air Force Research Laboratory Information Directorate as a research and development facility. The following use restrictions and controls will be placed on the property to ensure that use of the property is consistent with the risk assessment:

- Development and use of the entire Building 3 AOC property for residential housing, elementary and secondary schools, childcare facilities and playgrounds will be prohibited unless prior approval is received from the Air Force, EPA, and NYSDEC; and

- The owner or occupant of this site shall not extract, utilize, consume, or permit to be extracted, any water from the subsurface aquifer within the boundary of the site (see Figure 3) unless such owner or occupant obtains prior written approval from the NYSDOH.

The baseline risk assessment indicated that the concentrations of contaminants present in the groundwater were within or below EPA's acceptable carcinogenic risk range and posed no noncarcinogenic risk to utility, construction, and industrial workers.

A qualitative risk assessment of soil indicated that the potential risk to utility and construction workers from exposure to soil at the site are expected to be minimal. Therefore, the concentrations of the contaminants in the groundwater and any potential remaining contaminants in the soil, and the results of the baseline risk assessment demonstrate that site contaminants, in conjunction with the land and groundwater use restrictions mentioned earlier, pose no current or potential threat to public health or the environment.

The Air Force is responsible for implementing, maintaining, monitoring, and enforcing the land and groundwater use restrictions. The above restrictions will be maintained until the concentrations of hazardous substances in the soil and groundwater have been reduced to levels that allow for unlimited exposures and unrestricted use. It is anticipated that successful implementation, operation, maintenance, and enforcement of these land use restrictions in accordance with the terms of this ROD will achieve protection of human health and the environment and compliance with all legal requirements. Approval by the Air Force and EPA, with concurrence from NYSDEC, is required for any modification or termination of land use or groundwater use restrictions.

To ensure implementation of land use restrictions, the Air Force has administrative procedures that require project approvals for projects that require construction or subsurface soil disturbance (for example, Air Force Instruction [AFI] 32-1021, Planning and Programming of Facility Construction Projects, and work request procedures under AFI 32-1001, Operations Management, or their equivalents as they may be amended). Air Force instructions and procedures require coordination with and prior approval by environmental personnel if a proposed project is located on or near an environmental restoration project (ERP) site. The Air Force will ensure that these or equivalent instructions, processes, and/or requirements will be complied with for all proposed construction or subsurface soil-disturbing activities at the Building 3 Drywell site.

In the future, if this property is transferred to a non-federal entity, the deed from the United States will contain the above restrictions to ensure that the reuse of the site is consistent with the risk assessment. The Air Force will notify the EPA and NYSDEC prior to such transfer.

1.5 Statutory Determinations

It has been determined that no additional removal action is necessary at the Building 3 Drywell AOC. The Air Force Real Property Agency (AFRPA) and EPA, with concurrence from NYSDEC, have determined that land use restrictions for industrial/commercial use and groundwater use restrictions are warranted at this site. Future landowners will be bound, through the property deed, to the industrial/commercial reuse of the area and groundwater use restrictions within the Building 3 Drywell AOC boundary.

Five-year reviews will be performed by the Air Force, in conjunction with the EPA and NYSDEC, to ensure that (1) the Selected Remedy is protective of public health and the environment, (2) land use is in compliance with the deed restrictions for industrial/commercial use, and (3) any groundwater use has been approved by the NYSDOH prior to use.

1.6 ROD Data Certification Checklist

The following information is included in the Decision Summary section of this ROD. Additional information can be found in the Administrative Record for this site.

- The chemicals of potential concern (COPCs) and their respective concentrations are presented in Section 2.5, Site Characteristics.
- Current and reasonably anticipated future land and groundwater use assumptions used in the baseline risk assessment and ROD are presented in Section 2.6, Current and Potential Future Site and Resource Uses.
- The baseline risk represented by the COPCs is presented in Section 2.7, Summary of Site Risks.

1.7 Authorizing Signatures

On the basis of the remedial investigation performed at the Building 3 Drywell AOC, there is no evidence that residual contamination at this site poses a current or future potential threat to human health or the environment when used for industrial/commercial purposes and when groundwater use is restricted. Future landowners will be bound, through the property deed, to the industrial/commercial reuse of the property. The New York State Department of Environmental Conservation has concurred with the Selected Remedy presented in this Record of Decision.

Kathryn M. Halvorson
Director
Air Force Real Property Agency

DEC 2 0 2004
Date

William McCabe
Acting Director, Emergency and Remedial Response Division
United States Environmental Protection Agency, Region 2

March 17, 2005
Date

2 Decision Summary

2.1 Site Name, Location, and Brief Description

The Building 3 Drywell AOC (site identification designation DP-11) is located at the former Griffiss AFB in Rome, Oneida County, New York. Pursuant to Section 105 of CERCLA, Griffiss AFB was included on the NPL on July 15, 1987. On August 21, 1990, the EPA, NYSDEC, and the Air Force entered into a FFA under Section 120 of CERCLA.

The Building 3 Drywell AOC is located in the central industrialized portion of the former Griffiss AFB (see Figure 1). Building 3 was the location of a former industrial shop. The drywell was located on the east side of Building 3 (see Figure 2).

2.2 Site History and Enforcement Activities

The Former Griffiss AFB Operational History

The mission of the former Griffiss AFB varied over the years. The base was activated on February 1, 1942, as Rome Air Depot, with the mission of storage, maintenance, and shipment of material for the U.S. Army Air Corps. Upon creation of the U.S. Air Force in 1947, the depot was renamed Griffiss Air Force Base. The base became an electronics center in 1950, with the transfer of Watson Laboratory Complex (later Rome Air Development Center [1951], Rome Laboratory, and then the Air Force Research Laboratory Information Directorate, established with the mission of accomplishing applied re-

search, development, and testing of electronic air-ground systems). The 49th Fighter Interceptor Squadron was also added. The Headquarters of the Ground Electronics Engineering Installations Agency was established in June of 1958 to engineer and install ground communications equipment throughout the world. On July 1, 1970, the 416th Bombardment Wing of the Strategic Air Command was activated with the mission of maintenance and implementation of both effective air refueling operations and long-range bombardment capability. Griffiss AFB was designated for realignment under the Base Realignment and Closure Act in 1993 and 1995, resulting in deactivation of the 416th Bombardment Wing in September 1995. The Air Force Research Laboratory Information Directorate and the Northeast Air Defense Sector will continue to operate at their current locations; the New York Air National Guard operated the runway for the 10th Mountain Division deployments until October 1998, when they were relocated to Fort Drum; and the Defense Finance and Accounting Services has established an operating location at the former Griffiss AFB.

Environmental Background

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

Numerous studies and investigations under the DoD Installation Restoration Program (IRP) have been carried out to locate, assess, and quantify the past toxic and hazardous waste storage, disposal, and spill sites. These investigations included a records search in 1981 (Engineering Science 1981), interviews with base personnel, a field inspection, compilation of an inventory of wastes, evaluation of disposal practices, and an assessment to determine the nature and extent of site contamination; Problem Confirmation and Quantification studies (similar to what is now designated a Site Investigation) in 1982 (Weston 1982) and 1985 (Weston 1985); soil and groundwater analyses in 1986; a basewide health assessment in 1988 performed by the U.S. Public Health Service,

Agency for Toxic Substances and Disease Registry (ATSDR) (ATSDR 1988); base-specific hydrology investigations in 1989 and 1990; a groundwater investigation in 1991 (Geotech 1991); and site-specific investigations between 1989 and 1993. ATSDR issued a Public Health Assessment for Griffiss AFB, dated October 23, 1995 (ATSDR 1995), and an addendum, dated September 9, 1996. A remedial investigation (RI) was conducted in 1994 and the draft-final RI report covering 31 AOCs was delivered to EPA and NYSDEC in December 1996 (Law 1996). A Supplemental Investigation Report was delivered in July 1998 (E & E 1998).

2.3 Community Participation

A proposed plan for the Building 3 Drywell AOC (AFRPA 2002), indicating land and groundwater use restrictions was released to the public on Wednesday, January 23, 2002. The document was made available to the public in both the administrative record file located at 153 Brooks Road in the Griffiss Business and Technology Park and in the Information Repository maintained at the Jervis Public Library. The notice announcing the availability of this document was published in the *Rome Sentinel* on Monday, January 21, 2002. A public comment period lasting from January 23, 2002 to February 21, 2002 was set up to encourage public participation in the alternative selection process. In addition, a public meeting was held on Thursday, February 7, 2002. The AFRPA, NYSDEC, and the NYSDOH held an information session at the beginning of the public meeting and answered questions about issues at the AOC and the proposal under consideration. A response to the comments received during this period is included in the Responsiveness Summary, which is part of this ROD (see Section 3).

2.4 Scope and Role of Site Response Action

The scope of the plan for land and groundwater use restrictions for the Building 3 Drywell AOC addresses the concerns for human health and the environment. The land use restrictions for industrial/commercial use are consistent with the risk assessment performed for occupational workers.

2.5 Site Characteristics

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

The Building 3 Drywell AOC is located in the central industrialized portion of the base (see Figure 1). Surface water runoff in the area of the former drywell drains to Six Mile Creek. Groundwater flows in an easterly direction at this location and is at a depth of 8 to 8.5 feet below ground surface (BGS). Subsurface soil in the area of Building 3 is silty sands from 2 to 4 feet BGS and sandy gravel to gravelly sand from 4 to 12 feet BGS.

Building 3 was the location of a former industrial shop. The drywell was located on the east side of Building 3 next to an aboveground storage tank for liquid nitrogen (see Figure 2).

Usage of the drywell began in the 1960s and continued through 1984. The drywell was an open-bottom, earthen pit with a 5-gallon capacity. Materials disposed of included cleaning solvents, etching acids with metal salts, and paint thinner, methanol, acetone, and trichloroethylene. The drywell and contaminated soil were removed in June 1987. The former drywell area is now covered with gravel. The site boundary is illustrated in Figure 3. The following actions were taken during removal of the drywell:

- The existing exterior waste line was disconnected;
- The 5-gallon earthenware acid retention tank was removed;
- The contaminated area was excavated to a depth of 10 feet;
- Post-excavation soil samples were collected and analyzed for metals (organic compounds were not analyzed for);

- The exterior waste line at the building exterior wall was capped; and
- The area was backfilled with clean soil.

Site Investigations

In June 1987, the drywell and surrounding contaminated soil were excavated to 10 feet BGS. Subsurface soil sampling was conducted in August 1987 after excavation of the drywell. The soil samples were analyzed for metals and all of the results were nondetect using the toxicity characteristic leaching procedure (TCLP) extraction process. The soil was not analyzed for organic compounds.

In 1994, an RI was performed. The main objective of the RI was to investigate the nature and extent of environmental contamination from historical releases at the AOC in order to determine if any remedial action was necessary to prevent potential threats to human health and the environment that might arise from exposure to site conditions. Subsurface soil sampling was attempted in 1994 as part of the RI to confirm whether any residual soil contamination remained below the depth of the original drywell. However, the presence of gravel and cobbles prevented collection of the subsurface samples at the desired depth.

Two groundwater samples, one from each soil boring were collected and designated B3HP-1 and B3HP-2. Analysis of the samples indicated the presence of four volatile organic compounds (VOCs), seven semivolatile organic compounds (SVOCs), and 21 metals. The concentrations of 11 metals and total recoverable petroleum hydrocarbons exceeded the most stringent criterion for groundwater (see Table 1). Groundwater samples from soil borings are typically more turbid than groundwater samples from a monitoring well because they are not collected from a well that has been developed and purged prior to sampling. Due to this turbidity, concentrations of metals in soil boring groundwater samples are often elevated above concentrations in groundwater samples from monitoring wells.

An RI supplemental investigation was performed for the Building 3 Drywell in 1997. A single new vertical profile well was installed (B3VMW-1) because the RI groundwater sample results indicated the presence of low levels of chlorinated VOCs (be-

low most stringent criteria but detected at less than 2 µg/L). The samples were collected at 10-foot intervals beginning at the top of the water table (11 feet) to the top of bedrock and analyzed in the field. Five samples were collected to a depth of 48 feet. The well screen was then placed in the zone with the highest concentration of contaminants. Trichloroethylene was detected at the first screening interval only, and no other VOCs were detected. Therefore, the well screen was placed at the 8- to 18-foot depth interval. The groundwater sample indicated the presence of four VOCs and one SVOC (see Table 1A). None of the concentrations exceeded the most stringent criterion.

2.6 Current and Potential Future Site and Resource Uses

Griffiss AFB was designated for realignment under the Defense Base Closure and Realignment Act (DBCRA) in 1993 and 1995, resulting in deactivation of the 416th Bombardment Wing in September 1995. As a result of the realignment, a Master Reuse Strategy was developed by the Griffiss Local Development Corporation to provide the framework for reuse of the base after realignment and closure. The proposed reuse plan recommended in the final Master Reuse Strategy was evaluated in the Final Environmental Impact Statement (EIS) dated November 1995. As outlined in the Master Reuse Plan and EIS, the current land use designation for the Building 3 AOC is industrial. Following base realignment, this building was retained as part of an Air Force research and development complex with a land use designation of commercial/administrative. Currently, groundwater at the site is not being used as a resource. In the future, if this property is transferred to a non-federal entity, the deed from the United States will designate the use of the property for industrial/commercial use only and will prohibit the use of groundwater at the site unless prior written approval is granted by the NYSDOH. The Air Force will notify the EPA and NYSDEC prior to such transfer.

2.7 Summary of Site Risks

Site risks were analyzed based on the extent of contamination at the Building 3 Drywell AOC. As part of the RI, a baseline risk assessment was conducted to evaluate current and future potential risks to human health and the environment associated with

contaminants found in the groundwater and any potential remaining contaminants in the soil at the site. The results of this assessment were considered when formulating this land and groundwater use restrictions proposal.

2.7.1 Human Health Risk Assessment

A baseline human health risk assessment was conducted during the RI to determine whether chemicals detected at the Building 3 Drywell AOC could pose health risks to individuals under current and proposed future land use. As part of the baseline risk assessment, the following four-step process was used to assess site-related human health risks for a reasonable maximum exposure scenario:

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

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

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

The human health risk assessment evaluated the effects of exposure of potential future utility, construction, and industrial workers that may be exposed to chemicals detected in site media. The various exposure scenarios for each population are described in Table 2. The soil exposure scenarios were evaluated qualitatively due to the lack of analytical data to support a quantitative assessment. Intake assumptions, which are based on EPA guidance, are more fully described in the RI report.

Quantitative estimates of carcinogenic and noncarcinogenic risks from exposure to groundwater were calculated for the Building 3 Drywell AOC as part of a risk characterization. The risk characterization evaluates potential health risks based on estimated exposure intakes and toxicity values. For carcinogens, risks are estimated as the incremental increase in the probability of an individual developing cancer over a lifetime as a result of exposure to the potential carcinogen. The risks associated with exposure to the individual chemicals are summed for each pathway to develop a total risk estimate. The range of acceptable risk is generally considered to be 1 in 10,000 (1×10^{-4}) to 1 in 1,000,000 (1×10^{-6}) of an individual developing cancer over a 70-year lifetime from exposure to the contaminant(s) under specific exposure assumptions. Therefore, sites with carcinogenic risk less than the risk range for a reasonable maximum exposure do not generally require cleanup based upon carcinogenic risk under the NCP.

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

may be concern for potential noncarcinogenic health effects if the contaminants in question are believed to cause similar toxic effects.

EPA bases its decision to conduct site remediation on the risk to human health and the environment. Cleanup actions may be taken when EPA determines that the risk at a site exceeds the cancer risk level of 1 in 10,000 (1×10^{-4}) or if the noncarcinogenic HI exceeds a level of 1. If either of these thresholds is exceeded, the 1 in 1,000,000 (1×10^{-6}) risk level and an HI of 1 or less may be used as the point of departure for determining remediation goals for alternatives.

Potential risks from exposure to COPCs at the Building 3 Drywell AOC were evaluated for utility, construction, and industrial workers during the RI. Metals were not included as COPCs in the groundwater because the sample was from a soil boring. The potential carcinogenic and noncarcinogenic risks from exposure to soil and groundwater are summarized below and in Table 3.

Carcinogenic Risk

The total carcinogenic risk from exposure to contaminants in groundwater by industrial workers was 2×10^{-7}, which is below the EPA's target risk range. The pathway-specific risks from ingestion and inhalation of VOCs released from groundwater, and dermal exposure to groundwater were 2×10^{-7}, 1×10^{-8} and 2×10^{-8}, respectively.

Utility and construction workers could be exposed to potential residual contamination in subsurface soil during excavation activities at the site. During the removal of the drywell and the upper 10 feet of soil at the drywell location in 1987, the water table was encountered between 8 and 8.5 feet BGS in the soil borings at the site. Thus, it is unlikely that any residual contamination remains in the soil above the water table. Therefore, the potential risks to utility and construction workers from exposure to soil at this site are expected to be minimal.

Noncarcinogenic Risk

The total HI for industrial workers exposed to groundwater was 0.006, which is significantly less than the benchmark value of 1. The total individual HIs for ingestion of

groundwater, dermal exposure to groundwater, and inhalation of VOCs released from groundwater were 0.005, 0.0005, and 0.000002 respectively.

Summary

The results of the human health baseline risk assessment indicate that contaminants found in the groundwater and any potential remaining contaminants in the soil should not present a risk to current and future utility, construction, and industrial workers. Quantitative evaluation of risk is subject to several conservative assumptions and should not be considered an absolute measure of risk.

2.7.2 Uncertainties

Uncertainties exist in many components of the human health risk assessment process. However, use of conservative variables in intake calculations and health-protective assumptions throughout the entire risk assessment process results in an assessment that is protective of human health and the environment. Examples of uncertainties associated with the risk assessment for this AOC include (1) Chemical samples were collected from the suspected source of contamination rather than through random sampling, which may result in a potential overestimation of risk; (2) Subsurface soil samples could not be collected from the two soil borings due to excessive cobblestones at the AOC. This data gap could potentially cause an underestimate of risk; (3) A toxicological criterion was not available for one chemical found at the site (phenanthrene), which may result in a potential underestimation of risk; (4) It was assumed that groundwater would be used in the future as a potable water source under the industrial use scenario (i.e., showering, ingestion, industrial processes) in the future, which is unlikely since the site has ready access to existing water supplies at the former base and in the city of Rome. This would result in a potential overestimation of risk; and (5) Grab groundwater samples are typically very turbid, which results in reported chemical concentrations that are most likely elevated, and potentially results in an overestimation of risk.

2.7.3 Ecological Risk Assessment

A baseline risk assessment for ecological receptors at the Building 3 Drywell AOC was conducted during the RI. Since Building 3 Drywell is located in a highly developed portion of the base, no complete exposure pathways for ecological receptors were identified. Contamination that may be associated with the site is expected to be well below ground surface and ecological receptors are not expected to be found at these depths. In addition, the future land use designation is industrial/commercial. Therefore, potential exposures related to this AOC are not expected to exist.

Modeling of bioaccumulation to higher order species was not performed, nor was the cumulative effect of multiple contaminants considered; this tends to underestimate the risk to ecological receptors.

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

2.8 Remedial Action Objectives

The following are the remedial action objectives developed for this site based upon the site data presented in the RI and Supplemental Investigation reports:

Restrict Exposure to Contamination

Land and groundwater use restrictions within the site boundary (see Figure 3) will be implemented to restrict site use to industrial/commercial use only and restrict use of the groundwater.

The following are the goals and objectives of the use restrictions:

- Prevent the use of the contaminated groundwater for drinking water or any other purposes that could result in the inhalation of vapors from, dermal absorption of, or ingestion of the contaminated groundwater.

- Prevent the discharge of the contaminated groundwater withdrawn during construction dewatering activities to the ground or surface water, without prior

concurrence of the NYSDEC, since this discharge could exacerbate the spreading of the contamination and may require a discharge permit.

- Prevent residential housing, elementary and secondary schools, childcare facilities and playgrounds on Building 3 AOC since the risk assessment was evaluated for only non-residential use scenarios (future use) and not for unrestricted use.

Evaluate Effectiveness of the Remedy

Five-year reviews will be performed by the Air Force, in conjunction with the EPA and NYSDEC, to ensure that (1) the Selected Remedy is protective of public health and the environment, (2) land use is in compliance with the deed restrictions for industrial/commercial use, and (3) any groundwater use has been approved by the NYSDOH prior to use.

2.9 Description of Alternatives

CERCLA regulations mandate that a remedial action must be protective of human health and the environment, cost effective, and utilize permanent solutions and treatment technologies to the maximum extent practicable. This ROD evaluates a No Action scenario as dictated by CERCLA, and compares it to the land use and groundwater use restrictions alternative. A summary of the two alternatives is presented below.

No Action Alternative

CERCLA requires that the No Action alternative be compared with other alternatives. Under the No Action alternative, no remedy would be implemented at the Building 3 Drywell AOC. The site would remain as it is presently and no land use restrictions would be established. Costs and construction time are not associated with this alternative.

Land Use Restrictions for Industrial/Commercial Use and Groundwater Use Restrictions Alternative

This alternative includes land use restrictions for industrial/commercial use and groundwater use restrictions. If the property is transferred to a non-federal entity in the

future, the deed from the United States, which includes property within the boundary of the Building 3 Drywell AOC, will contain the following elements to ensure that the reuse of the site is consistent with the risk assessment:

- Development and use of the entire Building 3 AOC property for residential housing, elementary and secondary schools, childcare facilities and playgrounds will be prohibited unless prior approval is received from the Air Force, EPA, and NYSDEC; and

- The owner or occupant of this site shall not extract, utilize, consume, or permit to be extracted, any water from the subsurface aquifer within the boundary of the site (see Figure 3) unless such owner or occupant obtains prior written approval from the NYSDOH.

Five-year reviews will be performed by the Air Force, in conjunction with the EPA and NYSDEC, to ensure that (1) the Selected Remedy is protective of public health and the environment, (2) land use is in compliance with the deed restrictions for industrial/commercial use, and (3) any groundwater use has been approved by the NYSDOH prior to use. Costs will range between $2,000 and $5,000 per review and construction time is not associated with this alternative.

2.10 Comparative Analysis of Alternatives

Remedial alternatives are assessed on the basis of both a detailed and a comparative analysis pursuant to the NCP. The analysis of the Building 3 Drywell AOC consisted of (1) an assessment of the individual alternatives against nine evaluation criteria and (2) a comparative analysis focusing upon the relative performance of each alternative against the criteria. In general, the following "threshold" criteria must be satisfied by an alternative for it to be eligible for selection:

1. Overall protection of human health and the environment addresses whether a remedy provides adequate protection and describes how risks posed through each exposure pathway (based on a reasonable maximum exposure scenario) are eliminated, reduced, or controlled through treatment, engineering controls, or institutional controls.

2. Compliance with Applicable or Relevant and Appropriate Requirements (ARARs) addresses whether a remedy would (a) meet all of the ARARs or (b) provide grounds for invoking a waiver.

In addition, the following "primary balancing" criteria are used to make comparisons and identify the major trade-offs among alternatives:

3. Long-term effectiveness and permanence refers to the ability of a remedy to maintain reliable protection of human health and the environment over time once cleanup goals have been met. It also addresses the magnitude and effectiveness of the measures that may be required to manage the risk posed by treatment residuals and/or untreated wastes.

4. Reduction of toxicity, mobility, or volume via treatment refers to a remedial technology's expected ability to reduce the toxicity, mobility, or volume of hazardous substances, pollutants, or contaminants at the site.

5. Short-term effectiveness addresses (a) the period of time needed to achieve protection and (b) any adverse impacts on human health and the environment that may be posed during the construction and implementation periods until cleanup goals are achieved.

6. Implementability refers to the technical and administrative feasibility of a remedy, including the availability of materials and services needed.

7. Cost includes estimated capital, operation and maintenance, and present-worth costs.

Finally, the following "modifying" criteria are considered fully after the formal public comment period on the Proposed Plan is complete:

8. State acceptance indicates whether, based on its review of the RI and the Proposed Plan, the State supports or opposes the preferred alternative and/or has identified any reservations with respect to the preferred alternative.

9. Community acceptance refers to the public's general response to the alternatives described in the Proposed Plan and the RI reports. Factors of community acceptance include support, reservation, or opposition by the community.

A comparative analysis of the two alternatives based on the nine evaluation criteria follows.

1. Overall Protection of Human Health and the Environment

   The No Action alternative would potentially not provide adequate protection of human health and the environment since no remedy would be implemented at the Building 3 Drywell AOC to restrict its use. Based on the concentrations of contaminants in the groundwater, however, the results of the baseline risk assessment indicate that, although the concentrations of some chemicals exceed the groundwater standards, Building 3 Drywell poses no unacceptable health risk from exposure to the groundwater for utility, construction, and industrial workers. The potential risks to utility and construction workers from exposure to soil are expected to be minimal because the contaminated soil around the drywell was removed and it is unlikely that any residual contamination remains in the soil above the water table.

   The proposed alternative will prevent unnecessary exposure to the soil and groundwater (not evaluated for residential use scenarios) by limiting the future use of the site and through the implementation of land use restrictions for industrial/commercial use.

2. Compliance with ARARs

   Contaminant concentrations will not immediately comply with the ARARs under the No Action alternative or the Selected Remedy alternative. Currently there are no chemical specific ARARs for soil (other than for polychlorinated biphenyls [PCBs]). Therefore, other non-promulgated federal and state advisories and guidance values, referred to as To-Be-Considereds and background levels of the contaminants were used.

   The Selected Remedy alternative applies to soil and groundwater at the site. The Selected Remedy alternative will limit exposure to soil and groundwater through the implementation of land use and groundwater use restrictions. There is no evidence that chemical concentrations in the soil or in the groundwater at this site pose a current or future potential threat to human health or the environment when used for industrial/commercial purposes and when groundwater use is restricted. Further, five-year reviews will be performed by the Air Force, in conjunction with the EPA and NYSDEC, to ensure that (1) the Selected Remedy is protective of public health and the environment, (2) future land use is in compliance with the deed restrictions for industrial/commercial use, and (3) any groundwater use has been approved by the NYSDOH prior to use.

3. Long-term Effectiveness and Permanence

   The No Action alternative would not allow for reliable protection of human health and the environment in the long term due to the potential for future ingestion of groundwater and exposure to potentially contaminated soil by portions of the human population other than utility, construction, and industrial workers.

   For the Selected Remedy alternative, the implementation of land use and groundwater use restrictions will eliminate human contact with any potentially contaminated soil and groundwater. This action, coupled with the five-year reviews, provides reliable long-term protection of human health and the environment.

4. Reduction of Toxicity, Mobility, or Volume through Treatment

   The No Action alternative provides no treatment or containment of contaminants, and therefore does not result in any reduction of toxicity, mobility, or volume.

   The Selected Remedy alternative provides no treatment or containment of contaminants, and therefore, does not result in any reduction of toxicity, mobility, or volume. However, the levels of contamination found in the soil and groundwater do not warrant treatment. Although treatment will not be employed, this alternative will eliminate potential exposures to the soil and groundwater.

5. Short-term Effectiveness

   The No Action alternative would not be an effective alternative because the potential for human exposure to contaminated soil and ingestion of groundwater would continue to exist.

   For the Selected Remedy alternative, land use and groundwater use restrictions would be implemented if the property were transferred to a non-federal entity. The present and immediate future use of the property is industrial/commercial (under 1993 BRAC realignment, this site is located on property that is being retained by the DoD) with no utilization of groundwater. Any future deed restrictions will ensure that these controls remain intact.

6. Implementability

   There would be no limitations to implementing the No Action alternative.

There would be no limitations to implementing the Selected Remedy alternative. Implementation of land use and groundwater use restrictions is feasible and has been incorporated into other property transfers.

7. Cost

   There would be no costs associated with the No Action alternative.

   There are no capital costs or project construction durations associated with the Selected Remedy. Reviews to ensure that the remedy is still performing as planned will cost between $2,000 and $5,000 per review.

8. Agency Acceptance

   AFRPA, NYSDEC, and EPA have mutually agreed to select the land use and groundwater use restrictions alternative. The Selected Remedy satisfies the threshold criteria and ensures compliance with applicable regulations.

9. Community Acceptance

   Community acceptance of the Selected Remedy was assessed at the public meeting and during the public comment period.

2.11 Principal Threat Wastes

There are no principal threat wastes at the Building 3 Drywell AOC.

2.12 Selected Remedy

The Selected Remedy for the Building 3 Drywell AOC is land use restrictions for industrial/commercial use and groundwater use restrictions. Land and groundwater use restrictions will be implemented to minimize the exposure of any future users of the property including Air Force personnel, lessees/sublessees, transferees, and construction workers to any remaining hazardous substances located on the property encompassed by the Building 3 Drywell AOC (see Figure 3).

The Air Force is responsible for implementing, maintaining, monitoring, and enforcing the land and groundwater use restrictions. It is anticipated that successful implementation, operation, maintenance, and enforcement of these land use restrictions in accordance with the terms of this ROD will achieve protection of human health and the environment and compliance with all legal requirements. Approval by the Air Force and

EPA, with concurrence from NYSDEC, is required for any modification or termination of land use or groundwater use restrictions.

The following are the goals and objectives of the land and groundwater use restrictions:

- Prevent the use of the contaminated groundwater for drinking water or any other purposes that could result in the inhalation of vapors from, dermal absorption of, or ingestion of the contaminated groundwater.

- Prevent the discharge of the contaminated groundwater withdrawn during construction dewatering activities to the ground or surface water, without prior concurrence of the NYSDEC, since this discharge could exacerbate the spreading of the contamination and may require a discharge permit.

- Prevent residential use of Building 3 AOC since the risk assessment was evaluated for only non-residential use scenarios (future use) and not for unrestricted use.

To achieve these goals and objectives, the Air Force is requiring that use restrictions and controls be placed on the property to ensure that reuse is consistent with the risk assessment. The following are the corresponding use restrictions and controls on the property:

- Development and use of the entire Building 3 AOC property for residential housing, elementary and secondary schools, childcare facilities and playgrounds will be prohibited unless prior approval is received from the Air Force, EPA, and NYSDEC; and

- The owner or occupant of this site shall not extract, utilize, consume, or permit to be extracted, any water from the subsurface aquifer within the boundary of the site (see Figure 3) unless such owner or occupant obtains prior written approval from the NYSDOH.

The baseline risk assessment indicated that the concentrations of contaminants present in the groundwater were within or below EPA's acceptable carcinogenic risk range and posed no noncarcinogenic risk to utility, construction, and industrial workers. A qualitative risk assessment of soil indicated that the potential risk to utility and construction workers from exposure to soil at the site are expected to be minimal. Therefore,

the concentrations of the contaminants in the groundwater and any potential remaining contaminants in the soil, and the results of the baseline risk assessment demonstrate that site contaminants, in conjunction with the land and groundwater use restrictions mentioned earlier, pose no current or potential threat to public health or the environment.

The above restrictions shall be maintained until the concentrations of hazardous substances in the soil and groundwater has been reduced to levels that allow for unlimited exposures and unrestricted use. Approval by the Air Force and EPA with concurrence from NYSDEC is required for any modification or termination of land use or groundwater use restrictions. Under the Base Realignment and Closure Act (BRAC) 1993 realignment, this site is located on property that is being retained by the United States Department of Defense (DoD) and is being utilized by the Air Force Research Laboratory Information Directorate as a research and development facility. To ensure implementation of land use restrictions, the Air Force has administrative procedures that require project approvals for projects that require construction or subsurface soil disturbance (for example, Air Force Instruction [AFI] 32-1021, Planning and Programming of Facility Construction Projects, and work request procedures under AFI 32-1001, Operations Management, or their equivalents as they may be amended). Air Force instructions and procedures require coordination with and prior approval by environmental personnel if a proposed project is located on or near an environmental restoration project (ERP) site. The Air Force will ensure that these or equivalent instructions, processes, and/or requirements will be complied with for all proposed construction or subsurface soil-disturbing activities at the Building 3 Drywell site.

If this property is transferred to another federal entity or a non-federal entity in the future, the EPA and NYSDEC will be notified at least six months prior to such transfer. If the six-month notification is not possible, the EPA and NYSDEC will be notified no later than 60 days prior to such transfer.

The Air Force will take the following actions to ensure that the aforementioned use restrictions and the controls are effective in eliminating the exposure scenario and protecting human health and the environment:

Deed Restrictions: The transfer of fee title from the United States will include a CERCLA 120(h)(3) covenant which will contain a description of the residual contamination on the property and the environmental use restrictions, described above, expressly prohibiting activities inconsistent with the performance measure goals and objectives.

The environmental restrictions will be included in the deed for any property that has had hazardous substances stored for one year or more, known to have been released or disposed of on the property. The Air Force will consult with the EPA and NYSDEC on the deed restriction language. The deed will contain appropriate provisions to ensure that the restrictions continue to run with the land. The deed will also contain a reservation of access to the property for the Air Force, EPA, and the NYSDEC, and their respective officials, agents, employees, contractors, and subcontractors for purposes consistent with the Air Force IRP and the FFA.

Lease Restrictions: Prior to conveyance by deed of property where the residual contamination is located, and when such property is leased, the Air Force will include in the lease a description of the residual contamination and language explicitly prohibiting activities inconsistent with such goals and include lease terms that are equivalent to the use restrictions and controls described in this ROD. The lease restrictions will be operational and will remain in place until the property is transferred by deed. At the moment of deed transfer, the lease restrictions will be superseded by the restrictions in the federal deed, which will include lease terms that are equivalent to the use restrictions and controls described in this ROD.

Notice: Concurrent with the transfer of fee title, information regarding the environmental use restrictions controls will be communicated in writing to the property owners and to appropriate state and local agencies to ensure such agencies can factor such conditions into their oversight and decision-making activities regarding the property. The Air Force will also provide a copy of the deeds to the regulatory agencies as soon as practicable after the transfer of fee title.

Monitoring and Enforcement:

Monitoring: Monitoring of the environmental use restrictions will be conducted on an annual basis. The monitoring results will be included in a separate report or as a section in another environmental report, if appropriate, and provided to EPA and NYSDEC. The environmental use monitoring reports will be used in the preparation of the five-year reviews to evaluate the effectiveness of the remedy. Five-year review reports will make recommendations on the continuation or modification of the monitoring reports and environmental use monitoring frequencies. The Five-year review reports will be submitted to the regulatory agencies in accordance with the FFA.

The environmental use monitoring report, submitted to the regulatory agencies by the Air Force, will evaluate the status of the land and groundwater use restrictions and how any use restriction deficiencies have been addressed. The annual evaluation will address whether the use restrictions were communicated in the deed(s), whether the owners and state and local agencies were notified of the use restrictions affecting the property, and whether use of the property has conformed to such restrictions.

Response to Violations: The Air Force will notify EPA and NYSDEC via e-mail or telephone as soon as practicable, but no later than 10 days after discovery of any activity that is inconsistent with the land and groundwater use objectives or use restrictions, exposure assumptions, or any action that may interfere with the effectiveness of the land and groundwater use restrictions. Any violations that breach federal, state or local criminal or civil law will be reported to the appropriate civilian authorities, as required by law.

Enforcement: Any activity that is inconsistent with the land and groundwater use objectives or use restriction or any action that may interfere with the effectiveness of the land and groundwater use restrictions will be addressed by the Air Force as soon as practicable (but in no case more than 10 days) after the Air Force becomes aware of the violation. The Air Force will notify EPA and NYSDEC regarding how the breach has been addressed within 10 days of sending EPA and NYSDEC notification of the breach. The Air Force will exercise such rights as it retained under the transfer documents to direct that activities in violation of the controls be immediately halted. To the extent necessary, the Air Force will engage the services of the Department of Justice to enforce such rights.

Notification of Land Use Modification: The recipient of the property will obtain approval from the Air Force, EPA, and NYSDEC for any proposals for a land use change at a site inconsistent with the use restrictions described in this ROD.

State Land Use Notification Requirements: Consistent with the stated purposes of recent amendments to the New York Environmental Conservation Law enacting Section 27-1318, Institutional and Engineering Controls, the Air Force will meet the annual certification of Section 27-1318(C) through the annual monitoring report described above. Prior to property transfer, any grantee will be notified of any state land use control notification or reporting requirements.

The Air Force may arrange for third parties or other entities to perform any and all of the above actions. Any such arrangement shall be undertaken and executed in accordance with all applicable legal requirements, to include the Air Force's functions, obligations, and responsibilities under CERCLA. However, the Air Force shall retain ultimate responsibility for remedy integrity.

2.13 Statutory Determinations

It has been determined that no additional removal action is necessary at the Building 3 Drywell AOC. The AFRPA and EPA, with concurrence from NYSDEC, have determined that land use restrictions for industrial/commercial use and groundwater use restrictions are warranted for this site. Future landowners will be bound, through the property deed, to the industrial/commercial reuse of the area within the Building 3 Drywell AOC boundary and groundwater use restrictions.

Five-year reviews will be performed by the Air Force, in conjunction with the EPA and NYSDEC, to ensure that (1) the Selected Remedy is protective of public health and the environment, (2) land use is in compliance with the deed restrictions for industrial/commercial use, and (3) any groundwater use has been approved by the NYSDOH prior to use.

2.14 Documentation of Significant Changes

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

Table 1
COMPOUNDS EXCEEDING STANDARDS AND GUIDANCE VALUES
BUILDING 3 DRYWELL AOC
RI GROUNDWATER SAMPLES

Compound	Range of Detected Concentrations	Frequency of Detection Above Most Stringent Criterion	Most Stringent Criterion
Metals (mg/L)			
Aluminum	3.3 J - 140 J	2/2	0.05 [a]
Arsenic	0.005 - 0.027	1/2	0.025 [a]
Barium	0.073 - 1.2	1/2	1.0 [b]
Beryllium	0.005	1/2	0.003 [b]
Chromium	0.27	1/2	0.05 [b]
Copper	0.039 - 1.1	1/2	0.2 [b]
Iron	11.7 - 613	2/2	0.3 [b]
Lead	0.014 - 0.26	1/2	0.015 [d]
Manganese	2.8 - 58	2/2	0.05 [a]
Mercury	0.00075	1/2	0.0007 [b]
Nickel	0.66	1/2	0.1 [b]
Wet Chemistry (mg/L)			
Petroleum Hydrocarbons	1.1 J - 10.1 J	2/2	0.1 [a]

[a] Federal secondary maximum contaminat level

[b] NYSDEC Class GA groundwater standard; June 1998

[c] NYSDEC Class GA groundwater guidances; June 1999

[d] Federal primary maximum contaminat level

Key:
J = Estimated concentration

Table 1A
FREQUENCY OF DETECTION
SI GROUNDWATER SAMPLE

Compound	Range of Detected Concentrations	Frequency of Detection Above Most Stringent Criterion	Most Stringent Criterion
VOCs (µg/L)			
1,1,1Trichloroethane	0.83	0	5 [a]
Chloroform	1.0	0	7 [a]
Tetrachloroethene	0.36 J	0	5 [a]
Trichloroethene	2.7	0	5 [a]
SVOCs (µg/L)			
Bis(2-ethylhexyl)phthalate	5.7	0	6 [b]

[a] NYSDEC Class GA groundwater standard; June 1998

[b] Federal primary maximum contaminant level

Key:
J = Estimated concentration

Table 2
BUILDING 3 DRYWELL AOC
RISK ASSESSMENT
EXPOSURE SCENARIOS

UTILITY AND CONSTRUCTION WORKERS	INDUSTRIAL WORKER
• Incidental ingestion of soil • Inhalation of fugitive dust • Dermal contact with soil	• Ingestion of groundwater • Dermal contact with groundwater (during showering) • Inhalation of VOCs from groundwater (during showering)

Table 3
BUILDING 3 DRYWELL AOC
RI SUMMARY OF RISKS

HUMAN HEALTH RISKS

Pathway	Receptor	Site Condition	Cancer Risk	Noncancer Risk
Subsurface Soil (ingestion, inhalation, dermal contact)	Utility worker	Future	Qual*	Qual*
	Construction worker	Future	Qual*	Qual*
Groundwater (ingestion, inhalation of VOCs, dermal)	Industrial workers	Future	2×10^{-7}	0.006

* Evaluated qualitatively due to presence of gravel and cobbles, which prevented collection of samples.

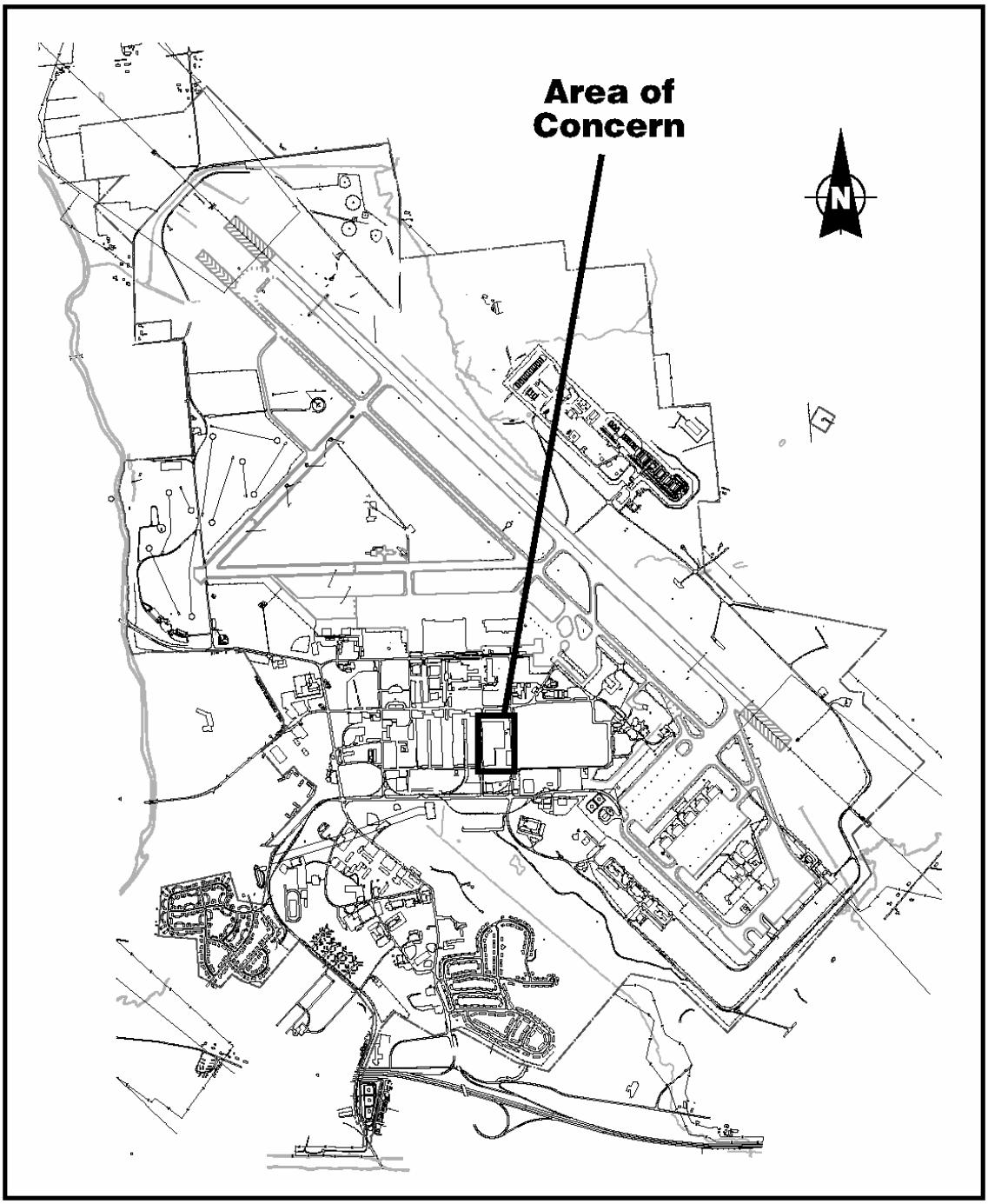


Figure 1 Location of Building 3 Drywell AOC

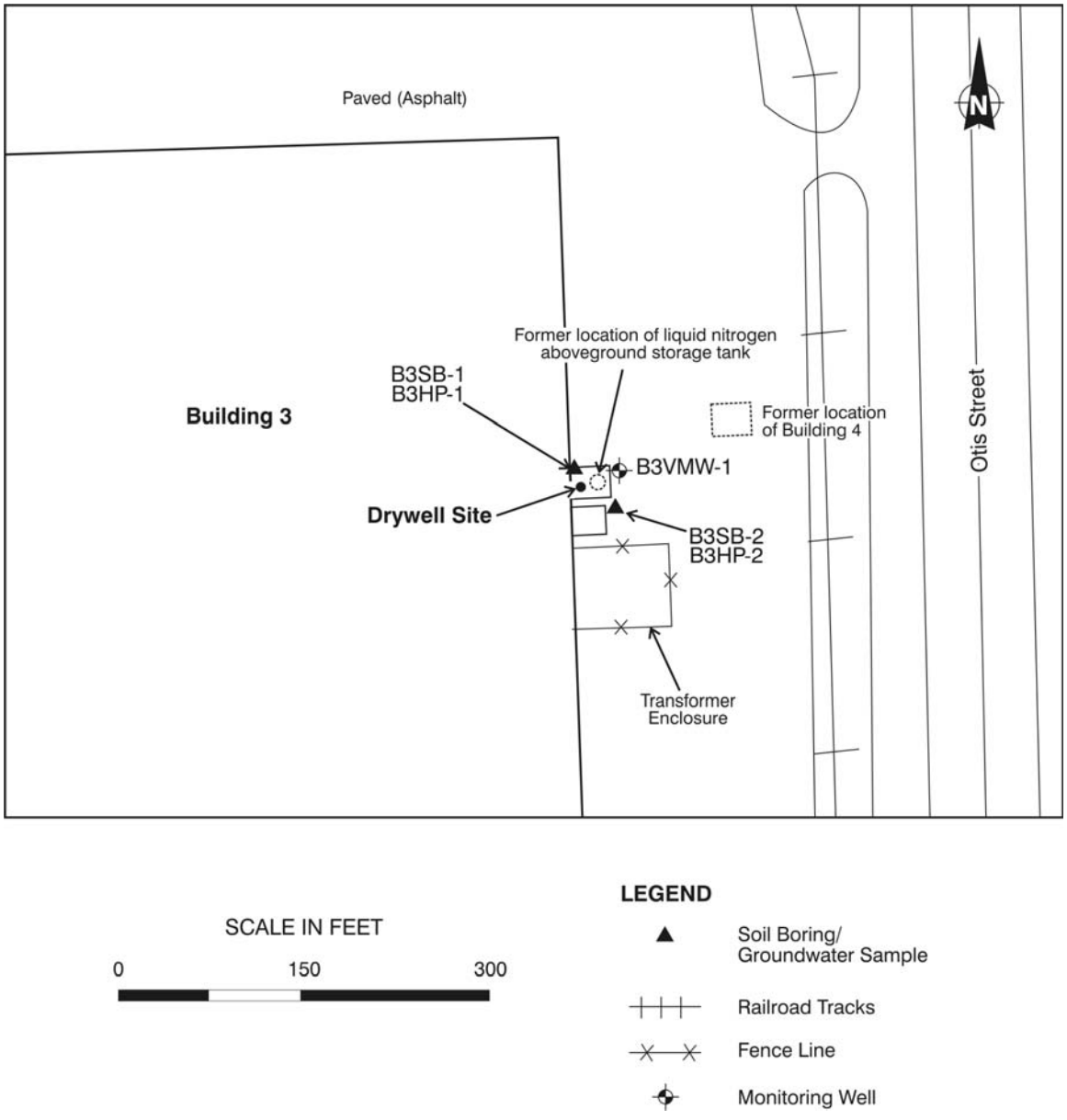


Figure 2 Building 3 Drywell AOC Site Map

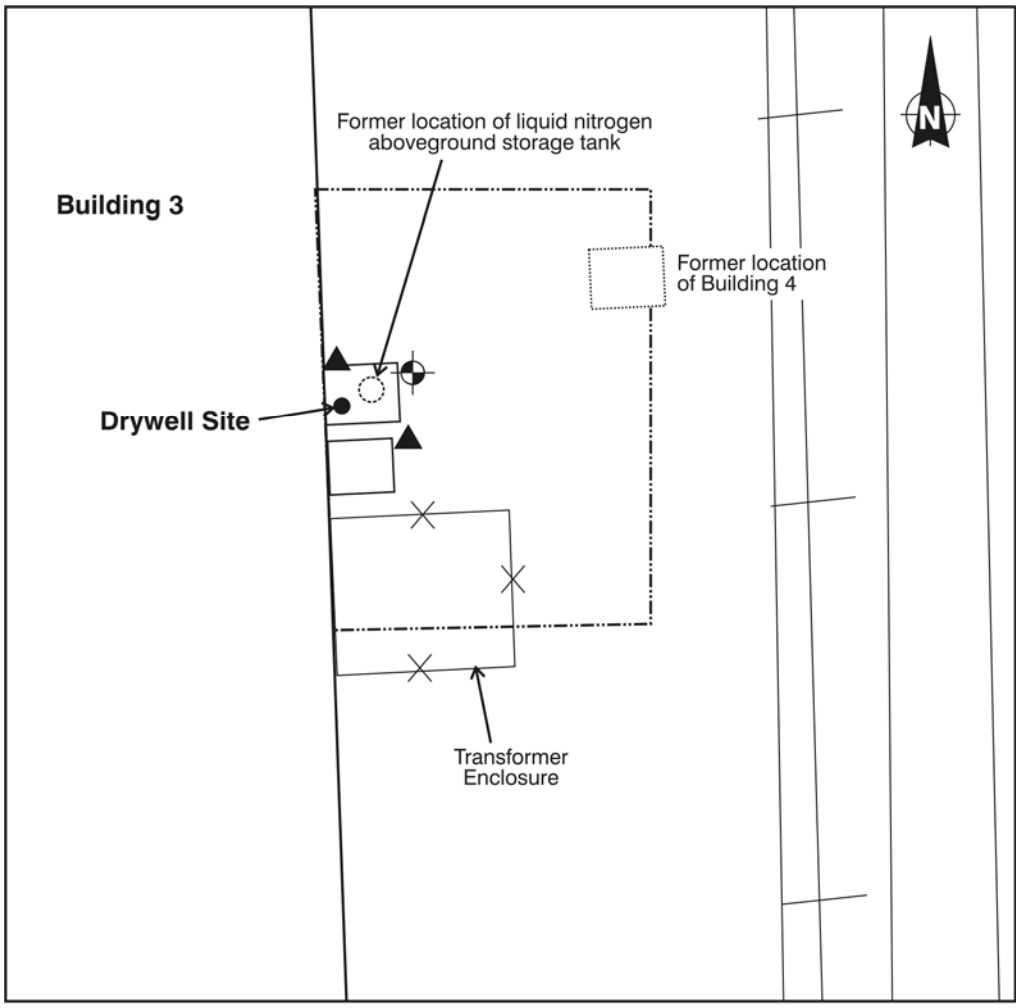


Figure 3 Site Boundary/Land Use Control Boundary

3 Responsiveness Summary

On Wednesday, January 23, 2002, AFRPA, following consultation with and concurrence of the EPA and NYSDEC, released for public comment the proposed plan for land use and groundwater use restrictions at the Building 3 Drywell AOC at the former Griffiss AFB. The release of the proposed plan initiated the public comment period, which concluded on February 21, 2002.

During the public comment period, a public meeting was held on Thursday, February 7, 2002, at 5:00 p.m. at the Floyd Town Hall located at 8299 Old Floyd Road, Rome, New York. A court reporter recorded the proceedings of the public meeting. Copies of the transcript and attendance list are included in the Administrative Record. The public comment period and the public meeting were intended to elicit public comment on the proposed plan for this site.

This document summarizes and provides responses to the verbal comments received at the public meeting and the written comments received during the public comment period. Several of the oral and written comments do not pertain to the six proposed plans that were issued for public comment but do relate to the base closure in general. Responses to such general comments, however, are also provided in this Responsiveness Summary.

ORAL COMMENTS

Comment #1 (Freda Melkun)

Mrs. Melkun inquired as to why there was no mention of groundwater contamination and contamination in the air in Building 3. She also asked if chemical vapors could rise up through the soil to the air and whether TCE could seep down into the soil.

Response #1

Groundwater samples were taken near the location of the former drywell. The results from sampling efforts in 1994 and 1997 are presented on page 6 of the proposed plan. The 1997 groundwater sampling indicated the presence of four VOCs and one SVOC, however, none of the concentrations exceeded the most stringent criterion. The risk assessment associated with the chemical concentrations found during the Remedial Investigations (RI) is presented on page 10 of the proposed plan. The results of the human health baseline risk assessment indicate that chemicals in the soil and groundwater should not present a risk under the current and future scenarios. The drywell and surrounding soil were totally removed in 1987. There is no contamination present to move from soil to air or soil to groundwater. The most recent groundwater sampling detected concentrations of TCE less than the most stringent drinking water standards. Contamination at levels equal to or less than the drinking water standards should not pose a significant threat to indoor air quality.

Comment #2 (Freda Melkun)

a) Mrs. Melkun asked a general question regarding potential movement of contamination off base and asked if any off-base investigations will take place.

b) She stated that Three Mile Creek and Six Mile Creek are contaminated, so their groundwater wells should be contaminated, and asked what the chemical effects are when you start mixing everything together.

c) She stated that ethylene glycols were found in some of the off-base wells and her well was supposed to be tested and it never was.

d) She stated that children are still swimming in the creeks.

Response #2

a) Several off-base investigations have been completed and it has been determined that there is no contamination at levels of health concern affecting off-base property, with the possible exception of Three Mile and Six Mile Creeks. Twenty-seven monitoring wells were sampled as part of the Off-Base Groundwater Contamination Area of Concern. Also, more than 300 domestic wells were sampled.

Reference report: Volume 32 of the Draft-final Remedial Investigations Report dated December 1996.

b) There has been contamination found in both Six Mile and Three Mile Creeks. As part of our assessment of the creeks, we have evaluated the effects of individual and combined chemicals on various receptors. However, such chemical effects, whether dealing with one or several chemicals, are unique and must be evaluated on a case-by-case basis. For the off-base portion of Six Mile Creek, the contaminants include low-level concentrations of polycyclic aromatic hydrocarbons (PAHs) and PCBs in the surface water and sediments. For the off-base portion of Three Mile Creek, the contaminants include moderate level concentrations of VOCs, SVOCs, metals, PAHs and PCBs in the surface water and sediments. Remedies are being evaluated for these sites and proposed plans will be issued within the next year. Several of the off-base monitoring wells and private wells that were sampled were adjacent to the creeks. The results showed that contamination has not traveled from the creeks to the wells. Furthermore, during the investigations, it was found that groundwater in the area south and southeast of the base flows into Six Mile Creek and not from the creek into the surrounding groundwater, therefore, it is extremely unlikely that contaminants in the creek would be transferred to adjacent homeowner wells. Proposed plans for Three Mile Creek (Remedial Action with Long-term Monitoring) and Six Mile Creek (source Control and Long-term Monitoring) were issued for public review and comment on July 24, 2003. A public meeting was held on August 5, 2003, to present the proposed alternatives. A final Record of Decision was signed by the EPA on March 26, 2004.

Reference reports: Volumes 6 and 11 of the Draft-final Remedial Investigations Report dated December 1996; Draft Feasibility Study Report for Three Mile Creek AOC and Six Mile Creek AOC dated January 1999; Six Mile Creek Summary Report dated March 2000; Final Three Mile Creek and Final Six Mile Creek Records of Decision dated December 2003.

c) The off-base investigations that sampled monitoring wells and private wells concluded that there is no evidence that people were exposed to ethylene glycol in drinking water at levels of health concern in the Griffiss area. The results of the investigations were well publicized. Several fact sheets were issued and several public meetings were held. Although NYSDOH acknowledges that Mrs. Melkun's well was not tested, it was not a deliberate oversight. Results of the sampling in the early 1980s in the vicinity of Mrs. Melkun's home did not indicate any pattern of groundwater contamination, nor were results above drinking water standards and, therefore, the sampling effort was discontinued. As a result, further testing of wells, including Mrs. Melkun's well, was not performed.

Reference reports: Volume 32 of the Draft-final Remedial Investigations Report dated December 1996; Public Health Assessment Addendum for Griffiss AFB, dated September 9, 1996 (Agency for Toxic Substances and Disease Registry).

d) The water and the sediments of Six Mile and Three Mile Creeks were thoroughly tested. The results analyzed under the CERCLA program showed that there is no significant risk to adults or children when playing or fishing in the creeks. However, NYSDOH does include statewide fish advisories for all stream, creeks and water bodies. These restrictions known as the NYSDOH Fish Consumption Advisories provide general warnings or restrictions for recreational fishers who may eat the fish. The NYSDOH Fish Consumption Advisories are provided to all individuals who seek a NYS fishing license and a copy can be obtained by contacting the NYSDOH. The NYSDOH Fish Consumption Advisories are issued independent of the CERCLA process.

Reference reports: Volumes 6 and 11 of the Draft-final Remedial Investigations Report dated December 1996, Draft Feasibility Study Report for Three Mile Creek AOC and Six Mile Creek AOC dated January 1999, Six Mile Creek Summary Report dated March 2000.

Comment #3 (Paul Landry)

Mr. Landry asked for a summary of the overall status of base cleanup.

Response #3

A brief summary was provided after the meeting. The status will be documented and passed out at the next Restoration Advisory Board meeting.

WRITTEN COMMENTS

One letter was received during the public comment period. That letter was sent by Mrs. Freda Melkun and was dated February 14, 2002. The comments in the letter are summarized below. Many of the comments are general comments not related to a specific proposed plan. Two comments, however, are related to specific proposed plans that were presented at the February 7, 2002, public meeting.

Comment #1

Mrs. Melkun stated that her well was not tested, although she requested the Health Department to sample.

Response #1

The NYSDOH acknowledges that Mrs. Melkun's well was not tested. It was not a deliberate oversight. Results of the sampling in the early 1980s in the vicinity of Mrs. Melkun's home did not indicate any pattern of groundwater contamination, nor were results above drinking water standards and the sampling effort was discontinued.

Comment #2

Mrs. Melkun reported suspecting chemical contamination to be the source of an illness in 1980 and also reported green bath water, dead fish and animals.

Response #2

There are reports that occasionally the green dye used to mark the runways in winter appeared in Six Mile Creek. NYSDOH and the Air Force have no records of reports of dead fish and animals in the vicinity of the base. As stated above, the off-base investigations that sampled monitoring wells and private wells concluded that there is no evidence that people were exposed to ethylene glycol or other contaminants in drinking water at levels of health concern in the Griffiss area.

Comment #3

Mrs. Melkun witnessed run-off from spraying planes going into the ground along with trichloroethylene.

Response #3

A comprehensive environmental investigation has been completed at Griffiss Air Force Base and no records exist of trichloroethylene being sprayed on the planes. De-icing sprays comprised of glycols were used at various parts of the base. The status of the projects and maps of the contaminated areas are regularly reported at Restoration Advisory Board Meetings. The Apron areas where planes were parked do have petroleum and solvent contamination and these areas of contamination have been defined. However, please note that these areas are located well within the base boundary and are being addressed by the Air Force.

Comment #4: **Comment on Building 3 Drywell Proposed Plan**

Mrs. Melkun repeated her concern with contamination from the drywell moving to the air or groundwater.

Response #4

Groundwater samples were taken near the location of the former drywell. The results from sampling efforts in 1994 and 1997 are presented on page 6 of the proposed plan. The 1997 groundwater sampling indicated the presence of four VOCs and one SVOC, however, none of the concentrations exceeded the most stringent criterion. The risk assessment associated with the chemical concentrations found during the Remedial Investigations is presented on page 10 of the proposed plan. The results of the human health baseline risk assessment indicate that chemicals in the soil and groundwater should not present a risk under the current and future scenarios. The drywell and surrounding soil were totally removed in 1987. There is no contamination present to move from soil to air or soil to groundwater. The most recent groundwater sampling detected concentrations of TCE less than the most stringent drinking water standards. Contamination at levels equal to or less than the drinking water standards pose no threat to indoor air quality.

Comment #5

Mrs. Melkun stated her disappointment that no further sampling will be performed as contamination has shifted from Griffiss to her area.

Response #5

As stated above, extensive off-base investigations have been completed and it has been determined that there is no contamination at levels of health concern affecting off-base property, with the possible exception of Three Mile and Six Mile Creeks. Twenty-seven monitoring wells were sampled as part of the Off-Base Groundwater Contamination Area of Concern. Also, more than 300 domestic wells were sampled.

Comment #6

Mrs. Melkun repeated her concern for swimmers in Six Mile Creek and requested the posting of notices.

Response #6

The water and the sediments of Six Mile and Three Mile Creeks were thoroughly tested. The results were analyzed and showed that there is no significant risk to adults or children when playing or fishing in the creeks provided adherence to the NYSDOH Fish Consumption Advisories. Therefore, there are no additional restrictions or warnings beyond the fishing health advisory required for recreational use of the creeks.

Comment #7

Mrs. Melkun stated there should have been compensation for the health problems resulting from contaminated water.

Response #7

There is no documentation that contamination released by Griffiss AFB has caused health problems to off-base residents.

Comment #8: **Comment on Electrical Power Substation Proposed Plan**

Mrs. Melkun is concerned about the dioxins and furans and wants to know the cause.

Response #8

When transformer fluids get extremely hot, dioxins and furans are released. They are also associated with PCBs. Therefore, the dioxins and furans were associated with PCB transformer spills. Dioxin (2,3,7,8-TCDD) concentrations did not exceed the 40 nanograms per kilogram (ng/kg) soil guidance value in any sample. There were no high levels detected.

4 References

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

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

Air Force Real Property Agency (AFRPA), January 2002, *Proposed Plan Building 3 Drywell AOC*, Rome, New York.

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

Ecology and Environment, Inc. (E & E), July 1998, *Final Report for Supplemental Investigations of Areas of Concern, Former Griffiss AFB, Rome, New York.*

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

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

Law Engineering and Environmental Services, Inc. (LAW), December 1996, *Draft-Final Primary Report, Volume 17, Remedial Investigation, Griffiss Air Force Base, New York*, Kennesaw, Georgia.

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

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

APPENDIX C

Daily Chemical Quality Control Report

Project/Delivery Order Number: FA8903-10-D-8595-0014 Date: 12/07/11

Project Name/Site Number: Griffiss Petroleum Spill Site LTM sampling (SS070-Building 150) and LUC/IC site evaluation sampling at DP011 (Building 3 Drywell).

Weather conditions: Average temperature: 36 Average barometric reading: 29.76
Wind direction and speed: West 7 mph
Significant wind changes: none.

General description of tasks completed: Bailer sampling at SS070 (150MW-2, -3, and -4) and Low Flow sampling at DP011 (B3VMW-1).

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

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

Corrective actions taken or instructions obtained from AFCEE personnel: No corrective actions necessary.

Sampling shipment completed: √ Yes □ No Test America Courier.

DCQCR Prepared by: Daniel Baldyga, FPM, Technical Lead Date: December 7, 2011

CQCC Signature: _____ Date: 12/7/11

ATTACHMENTS:

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

WELL PURGING & SAMPLING FORM
(LOW FLOW)

Project: 1015-11-01 Sampled by: KM/SN

Location and Site Code (SITEID): Building 3

Well No. (LOCID): B3VMW-1 Well Diameter (SDIAM): 2"

Date (LOGDATE): 12.7.11 Weather: cloudy / 40°F

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

Measured Well Depth (B) (TOTDEPTH) _____ ft. (optional)

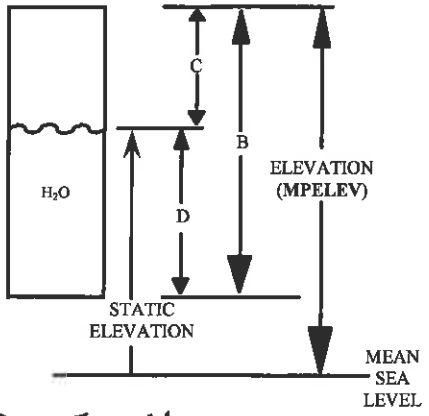
Measured Water Level Depth (C) (STATDEP) 10.58 ft.

Length of Static Water Column (D) = _____ (B) - _____ (C) = _____ (D) ft. (optional)

Pump Intake Depth (ft): 14

Depth during Purging/Sampling: 10.58 - 10.70 ft (provide range)

Comments (re: Depth during purging/sampling): _____



Purge Date and Method: BLADDER PUMP 12.7.11

Physical Appearance/Comments: clear / no odor

Dissolved Ferrous Iron (mg/L): N/A

min purge vol = 708mL

FIELD MEASUREMENTS:

Allowable Range:		± 0.1	± 3%		± 10%	± 10%	± 10mV	
Time	Depth to Water (ft BTOC)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)	Flow Rate (mL/min)
1058	10.58	6.64	0.504	16.03	159	6.71	227	400
1100	10.58	6.77	0.521	16.03	95.4	6.56	207	400
1102	10.58	6.82	0.575	16.00	50.9	6.30	199	400
1104	10.58	6.91	0.628	15.99	36.6	5.92	200	400
1106	10.58	6.94	0.622	15.95	27.3	5.77	202	400
1108	10.58	6.95	0.684	15.91	22.7	5.55	205	400
1110	10.58	6.95	0.704	15.90	19.9	5.44	206	400
1112	10.58	6.96	0.720	15.88	17.6	5.34	208	400
1114	10.58	6.96	0.739	15.89	13.9	5.27	211	400
1116	10.58	6.97	0.752	15.92	11.1	5.17	214	400

Sample Time: 1120 Sample ID: B03VM0114AA

Note: Maintain a flow rate of 200-500 mL/min during purging. Collect samples at a flow rate between 100-250 mL/min. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 1015-11-01 Sampled by: KM/SN

Location and Site Code (**SITEID**): Building 150

Well No. (**LOCID**): 150MW-2 Well Diameter (**SDIAM**): 2"

Date (**LOGDATE**): 12-7-11 Weather: cloudy / 40°F

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

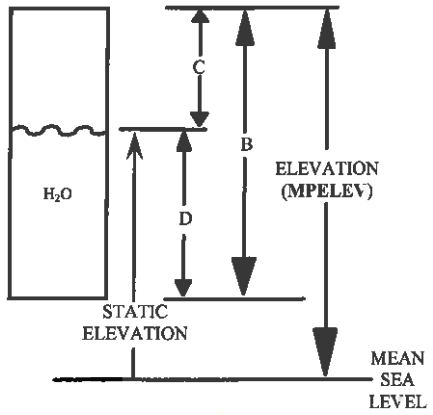
Measured Well Depth (B) (**TOTDEPTH**) 23.5 ft.

Measured Water Level Depth (C) (**STATDEP**) 14.98 ft.

Length of Static Water Column (D) = (B) 23.5 - (C) 14.98 = (D) 8.52 ft.

Casing Water Volume (E) = (A) 0.16 x (D) 8.52 = 1.36 gal

Minimum Purge Volume = 4.08 gal (3 well volumes)



Purge Date and Method: Bailer / 12-7-11

Physical Appearance/Comments: Silty Brown / no odor

FIELD MEASUREMENTS:

Allowable Range: ± 0.1 ± 5% ±1°C

Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1430	1	6.38	0.336	14.22	300	2.16	220
1432	2	6.29	0.340	14.70	206	3.02	214
1434	3	6.30	0.338	15.17	238	6.19	200
1436	4.1	6.23	0.339	15.28	155	1.68	186

Sample Time: 1440 Sample ID: 150M02150A

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 1015-11-01 Sampled by: SN / KM

Location and Site Code (**SITEID**): Building 150

Well No. (**LOCID**): 150MW-3 Well Diameter (**SDIAM**): 2"

Date (**LOGDATE**): 12/7/2011 Weather: cloudy / 40°F

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

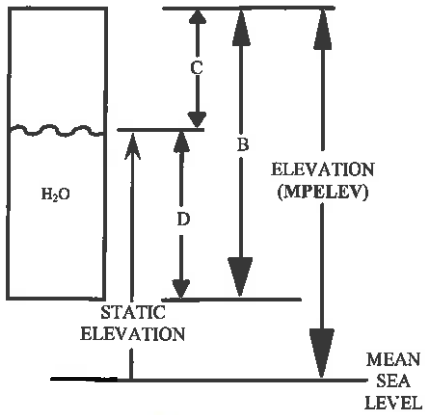
Measured Well Depth (B) (**TOTDEPTH**) 21.99 ft.

Measured Water Level Depth (C) (**STATDEP**) 14.99 ft.

Length of Static Water Column (D) = (B) 21.99 - (C) 14.99 = (D) 7.0 ft.

Casing Water Volume (E) = (A) 0.16 x (D) 7.0 = 1.12 gal

Minimum Purge Volume = 3.36 gal (3 well volumes)



Purge Date and Method: Bailer / 12-7-11

Physical Appearance/Comments: Silty Brown / no odor

FIELD MEASUREMENTS:

Allowable Range: ± 0.1 ± 5% ±1°C

Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1350	1	6.67	0.261	14.33	914	2.48	249
1352	2	6.38	0.256	15.03	>1000	2.28	259
1354	3	6.35	0.256	15.44	>1000	3.77	259
1356	3.5	6.36	0.256	15.53	718.0	2.01	260

Sample Time: 1400 Sample ID: 150MW3SDA

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

WELL PURGING & SAMPLING FORM

Project: 1015-11-01 Sampled by: KM/SN

Location and Site Code (SITEID): Building 150

Well No. (LOCID): 150MW-4 Well Diameter (SDIAM): 2"

Date (LOGDATE): 12.7.11 Weather: cloudy / 40°F

CASING VOLUME INFORMATION:

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION:

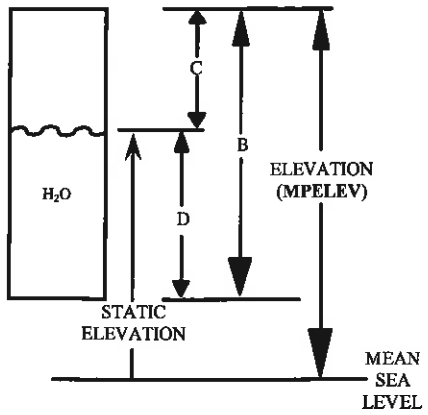
Measured Well Depth (B) (TOTDEPTH) 21.81 ft.

Measured Water Level Depth (C) (STATDEP) 15.92 ft.

Length of Static Water Column (D) = (B) 21.81 - (C) 15.92 = (D) 5.89 ft.

Casing Water Volume (E) = (A) 0.16 x (D) 5.89 = 0.942 gal

Minimum Purge Volume = 2.8 gal (3 well volumes)



Purge Date and Method: bailer / 12.7.11

Physical Appearance/Comments: Silty Brown / no odor

FIELD MEASUREMENTS:

Allowable Range: ± 0.1 ± 5% ±1°C

Time	Volume Removed (gal)	pH	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)
1309	1	6.79	0.314	14.45	327	4.01	243
1311	2	6.71	0.310	14.65	1000	4.32	246
1313	3	6.67	0.310	14.80	1000	4.08	250
1315	3.5	6.60	0.306	14.96	789	5.03	251
1317	4	6.52	0.308	14.98	994	4.41	253
1319	4.5	6.47	0.303	14.87	590	4.18	256
1321	5	6.48	0.302	14.94	592	5.51	258

Sample Time: 1330 Sample ID: 150M0416DA

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity, Fe^{2+}, CH_4, H_2S) parameters should be sampled first.

Equipment Calibration Log

Instrument Name: Horiba U-52

Model Number: #1 - Dec 09

Date	First Standard Concentration	First Standard Reading	Second Standard Concentration	Second Standard Reading	Comments
6-6-11	4.00	4.00			
6-7-11	4.00	4.00			
6-8-11	4.00	~~3.99~~ 4.00			
6-9-11	4.00	4.00			
6-10-11	4.00	4.00			
6-13-11	4.00	4.00			
6-15-11	4.00	4.00			
6-16-11	4.00	4.00			
6-20-11	4.00	4.01			
6-21-11	4.00	4.00			
~~[illegible]~~	~~4.00~~	~~4.00~~			
12/7/11	4.00	4.00			

CHAIN OF CUSTODY RECORD

COC#: _2_ SDG#: _275_ Cooler ID: _A_

Ship to: Elaine Walker Test America Laboratories, Inc. 4955 Yarrow Street Arvada, Colorado Tel: 303-736-0156	Project Name: Griffiss AFB B150 Sampler Name: Daniel Baldyga	Send Results to: Daniel Baldyga FPM Remediations, Inc 584 Phoenix Drive Rome, NY 13441
Carrier: Test America courier.	Sampler Signature: DBaldyga	Phone: (315) 336-7721 Ext. 207

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	No. of Containers	VOCs Note 1 40 mL glass vial	SVOCs Note 2 1 L amber glass	Comments
150M0215DA	WL-150MW-02	12/7	1440	WG	B	0/0	N	5	3	2	
150M0315DA	WL-150MW-03	12/7	1400	WG	B	0/0	N	5	3	2	
150M0416DA	WL-150MW-04	12/7	1330	WG	B	0/0	N	5	3	2	

Sample Condition Upon Receipt at Laboratory: Cooler temperature:

Note 1: VOCs: method SW 8260 (AFCEE QAPP 4.0 List).
Note 2: SVOCs: method SW 8270 (AFCEE QAPP 4.0 List).

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) DB	Date: 12/7/11	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations	Time: 1600	Company Name:	Time:
#1 Received by: (Sig) Dan Baldyga	Date:12/2/11	#2 Received by: (Sig)	Date:	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations	Time: 1000	Company Name:	Time:	Company Name:	Time:

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

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

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

AFCEE
CHAIN OF CUSTODY RECORD (WO)

COC#: _1_ SDG#: _275_ (Open/Closed) Cooler ID#: _A_

Ship to: Elaine Walker Test America Laboratories, Inc. 4955 Yarrow Street Arvada, Colorado Tel: 303-736-0156	Project Name: Griffiss AFB Building 3 Sampler Name: Daniel Baldyga	Send Results to: Daniel Baldyga FPM Remediations, Inc 584 Phoenix Drive Rome, NY 13441 Phone: (315) 336-7721 Ext. 207
Carrier: Test America courier.	Sampler Signature:	

Analyses requested

Field Sample ID	LocID	Date 2011	Time	MATRIX	SMCODE	SACODE	SBD/SED	# of Containers	VOCs note1 40mL vials (HCl)	Metals note2 250 mL poly (HNO_3)	Metals note3 250 mL poly (HNO_3)	SVOCs note4 1 L amber	Comments
B3VM0114AA	B3VMW-1	12/7	1120	WG	BP	N	0/0	7	3	1	1	2	
120711AE	FIELDQC	12/7	1505	WG	BP	EB	0/0	7	3	1	1	2	
120711AF	FIELDQC	12/7	1140	WG	NA	AB	0/0	3	3	-	-	-	
120711AR	FIELDQC	12/7	0930	WG	NA	TB	0/0	3	3	-	-	-	

Sample Condition Upon Receipt at Laboratory: Cooler temperature:

Special Instructions/Comments: Parameter List:
Note 1: VOCs: 8260B AFCEE QAPP 4.0 List
Note 2: Metals: SW6010 AFCEE QAPP 4.0 List (Total).
Note 3: Metals: SW6010 AFCEE QAPP 4.0 List (Dissolved) filtered in the field.
Note 4: SVOCs: method SW 8270 (AFCEE QAPP 4.0 List).

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) DB	Date: 12/7/11	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations	Time: 16:00	Company Name:	Time:
#1 Received by: (Sig) Daniel Baldyga	Date: 12/2/11	#2 Received by: (Sig) RE	Date: 12/7/11	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations	Time: 1000	Company Name: TAL SYR	Time: 16:00	Company Name:	Time:

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

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

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

Daily Health and Safety Meeting Form

Date: 12/7/11 *Time Start:* 0900

Time End: 0910

Location: FPM Remediations office

Weather Conditions: Fog, cold (30's)

Meeting Type: Health and Safety

Personnel Present: Dan Baldyga, Katrina Mathice, Spencer Noyes

Visitors Present: None

Visitor Training: None

PPE Required: standard (boots, gloves, glasses)

Possible risks, injuries, concerns: Fog and driving visibility, fall, aircraft at 150 site.

Anticipated Releases to Environment (if so, describe and detail response action/control measures implemented): No

Daily Health and Safety Meeting Form (Page 2)

Property Damage: None

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

None

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

None

Report made by (Name): Daniel Baldizon

SSHP Organization Title: Health and Safety Officer / PM

APPENDIX D

FPM Remediations
Data Verification and Usability Report
Former Griffiss AFB
Building 3
Contract No. FA8903-10-D-8595, Delivery Order No. 0014

FPM Project No. 1015-11-01

TestAmerica Job # 280-23566-1

Laboratory:	TestAmerica Laboratories, Inc.
Sample Matrix:	Water
Number of Samples:	4
Analytical Protocol:	DOD QSM, version 4.2, as per project-specific UFP QAPP
Data Reviewer:	Connie van Hoesel
Sample Date:	December 7, 2011

LIST OF DATA VERIFICATION SAMPLES

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

Sample ID	Date	QC Samples	Date
B3VM0114AA	12/7/11	120711AE, 120711AR, 120711AF	12/7/11

Notes:

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

DELIVERABLES

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

ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the sample analyses were per methods as specified in the DOD QSM, version 4.2, with project-specific modifications as listed in the project-specific QAPP. The analytical methods employed included SW-846 Volatile Organic Compounds (VOCs) by Method SW8260B, Semivolatile Organic Compounds (SVOCs) by Method SW8270C, Total and Dissolved Metals by Method 6010 and 6020, and Total and Dissolved Mercury by Method 7470A.

VERIFICATION GUIDANCE

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

QA/QC CRITERIA

The following QA/QC criteria were reviewed for the VOCs and SVOCs analyses, as applicable:

- Method detection limits and reporting limits (MDL, RL)
- Holding times
- GC/MS tune performance
- Initial and Continuing calibration summaries
- Method blanks
- Field duplicate results
- Matrix spike/matrix spike duplicate (MS/MSD) analysis
- Surrogate spike recoveries
- Internal standard areas counts and retention times
- Laboratory control samples (LCS)
- Results reported between MDL and RL (J-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)

- Case narrative and deliverables compliance

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

GENERAL NOTES:

SAMPLE LABELING/CHAIN-OF-CUSTODY

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

VOLATILE ORGANIC COMPOUNDS (VOCs)

- There were no exceedances for VOCs.

SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

- There were no exceedances for SVOCs.

METALS (ICP)

- For the following samples, the dissolved metals results for the following analytes (above the LOQ) were greater than their total metals concentrations:

Sample	Analyte	Concentration in Total Metals Sample (µg/L)	Concentration in Dissolved Metals Sample (µg/L)	RPD (%)	Flag Applied
B3VM0114AA	Calcium	88,000	89,000	1.1	None
	Sodium	78,000	80,000	2.5	None

Corrective Action: For those analytes with RPD's less than 20 (the allowable RPD between duplicate samples), using professional judgment, no action is taken, and the results are considered usable with no qualification.

METALS (MS)

- According to the case narrative, the ICSA solution for prep batch 280-101490 reported cadmium above the LOD. The laboratory contacted the manufacturer, and the source of the cadmium is suspected to be trace impurities of the element in the solution, rather than an artifact of matrix interference. The laboratory applied "Q" flags for all cadmium results. Using professional judgment, the "Q" flags were removed and the unqualified results are deemed usable.

MERCURY

- There were no exceedances for the mercury analyses.

DATA USABILITY RESULTS

VOCs

Based on the evaluation of all information in the analytical data groups, the results for VOCs are usable with the data qualifiers as noted. It should be noted that non-reportable results did not affect overall data usability. Using the verification approach as presented above, the results for all above samples are 100% usable.

SVOCs

Based on the evaluation of all information in the analytical data groups, the results for SVOCs are usable with the data qualifiers as noted. It should be noted that non-reportable results did not affect overall data usability. Using the verification approach as presented above, the results for all above samples are 100% usable.

Metals (ICP)

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

Metals (MS)

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

Mercury

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

DATA USABILITY SUMMARY

All data in Job # 280-23566-1 are valid and usable with qualifications as noted in the data review.

Signed: Concordia van Hoesel Date: 2/16/12

ATTACHMENTS

- Chain-of-Custody
- Laboratory's Case Narrative
- Qualified final data verification results on annotated Lab Sheet 2s

SAMPLE SUMMARY

Client: FPM Remediations Inc

Job Number: 280-23566-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-23566-1	B3VM0114AA	Water	12/07/2011 1120	12/08/2011 0900
280-23566-2EB	120711AE	Water	12/07/2011 1505	12/08/2011 0900
280-23566-3FB	120711AF	Water	12/07/2011 1140	12/08/2011 0900
280-23566-4TB	120711AR	Water	12/07/2011 0930	12/08/2011 0900

CASE NARRATIVE
Client: FPM Remediations Inc
Project: Griffiss AFB Building 3
Report Number: 280-23566-1

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

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

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

RECEIPT
Four samples were received on 12/08/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.7oC and 4.4oC.

A sample ID discrepancy was noted between the information listed on the chain-of-custody and the sample container label for TA Denver sample 280-23566-1. The chain-of-custody lists the sample ID as B3VM0114AA, while the container label lists the sample ID as B03VM0114AA. The sample ID was logged per the chain-of-custody. The client was notified of this discrepancy via email on 12/08/2011.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples B3VM0114AA (280-23566-1), 120711AE (280-23566-2), 120711AF (280-23566-3), and 120711AR (280-23566-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/21/2011.

Methylene Chloride was detected in method blank MB 280-101066/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

The presence of the '4' qualifier in the report indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/10/2011 and analyzed on 12/29/2011.

No difficulties were encountered during the SVOC analyses.

All quality control parameters were within the acceptance limits.

TOTAL METALS
Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/12/2011 and analyzed on 12/13/2011.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

TOTAL METALS
Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for total metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 12/28/2011 and analyzed on 12/29/2011.

Thallium was detected in method blank MB 280-101490/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

The ICSA solution, which is used as the ICP-MS interference check standard, shows results for several metals at levels above the DoD

acceptance limits (>LOD). For prep batch 280-101490 the initial ICSA solution was above the DoD acceptance limit for Cadmium. We believe the solution contains trace impurities of this element and that the result is not an artifact of matrix interference. This result agrees with that found by the manufacturer of the ICSA solution. The associated sample results have been flagged "Q" for Cadmium.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS
Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/28/2011 and analyzed on 12/29/2011.

Sodium was detected in method blank MB 280-101476/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

No other difficulties were encountered during the dissolved metals analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS
Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 12/28/2011 and analyzed on 12/29/2011.

The ICSA solution, which is used as the ICP-MS interference check standard, shows results for several metals at levels above the DoD acceptance limits (>LOD). For prep batch 280-101478 the initial ICSA solution was above the DoD acceptance limit for Cadmium. We believe the solution contains trace impurities of this element and that the result is not an artifact of matrix interference. This result agrees with that found by the manufacturer of the ICSA solution. The associated sample results have been flagged "Q" for Cadmium.

No other difficulties were encountered during the dissolved metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY
Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/14/2011 and analyzed on 12/15/2011.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED MERCURY
Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for dissolved mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/12/2011 and analyzed on 12/13/2011.

No difficulties were encountered during the dissolved mercury analyses.

All quality control parameters were within the acceptance limits.

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: B3VM0114AA

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3002.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1549			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1549				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.33	J	0.16	1.0
1,1,2,2-Tetrachloroethane	0.40	U	0.20	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	0.79	3.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,4-Dioxane	80	U	71	220
1-Chlorohexane	0.20	U	0.17	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
2-Chlorotoluene	0.40	U	0.17	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Chlorotoluene	0.40	U	0.17	1.0
4-Isopropyltoluene	0.40	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
Acetone	6.4	U	1.9	10
Benzene	0.20	U	0.16	1.0
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon disulfide	0.80	U	0.45	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroethane	1.6	U	0.41	2.0
Chloroform	0.21	J	0.16	1.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Cyclohexane	0.40	U	0.28	2.0
Dibromomethane	0.40	U	0.17	1.0

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: B3VM0114AA

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3002.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1549			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1549				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.52	J	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.80	J	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 120
4-Bromofluorobenzene (Surr)	99		75 - 120
Dibromofluoromethane (Surr)	106		85 - 115
Toluene-d8 (Surr)	99		85 - 120

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: 120711AE

Lab Sample ID: 280-23566-2EB
Client Matrix: Water

Date Sampled: 12/07/2011 1505
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3003.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1611			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1611				

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

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **120711AE**

Lab Sample ID: 280-23566-2EB
Client Matrix: Water

Date Sampled: 12/07/2011 1505
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3003.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1611			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1611				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.64	J	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 120
4-Bromofluorobenzene (Surr)	96		75 - 120
Dibromofluoromethane (Surr)	103		85 - 115
Toluene-d8 (Surr)	98		85 - 120

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: 120711AF

Lab Sample ID: 280-23566-3FB
Client Matrix: Water

Date Sampled: 12/07/2011 1140
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3004.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1633			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1633				

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

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: 120711AF

Lab Sample ID: 280-23566-3FB
Client Matrix: Water

Date Sampled: 12/07/2011 1140
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3004.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1633			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1633				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	1.1	J	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 120
4-Bromofluorobenzene (Surr)	94		75 - 120
Dibromofluoromethane (Surr)	102		85 - 115
Toluene-d8 (Surr)	97		85 - 120

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **120711AR**

Lab Sample ID: 280-23566-4TB
Client Matrix: Water

Date Sampled: 12/07/2011 0930
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3005.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1655			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1655				

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

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **120711AR**

Lab Sample ID: 280-23566-4TB
Client Matrix: Water

Date Sampled: 12/07/2011 0930
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3005.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1655			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1655				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.62	J	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 120
4-Bromofluorobenzene (Surr)	99		75 - 120
Dibromofluoromethane (Surr)	101		85 - 115
Toluene-d8 (Surr)	95		85 - 120

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **B3VM0114AA**

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

8270D/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D/DoD	Analysis Batch:	280-101947	Instrument ID:	MSS_B
Prep Method:	3520C	Prep Batch:	280-99533	Lab File ID:	B8740.D
Dilution:	1.0			Initial Weight/Volume:	1034.3 mL
Analysis Date:	12/29/2011 2009			Final Weight/Volume:	1000 uL
Prep Date:	12/10/2011 1210			Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1'-Biphenyl	1.9	U	1.7	9.7
1,2,4,5-Tetrachlorobenzene	1.9	U	1.7	9.7
1,2,4-Trichlorobenzene	0.97	U	0.27	9.7
1,2-Dichlorobenzene	0.97	U	0.22	9.7
1,2-Diphenylhydrazine	0.97	U	0.22	9.7
1,3-Dichlorobenzene	0.97	U	0.29	9.7
1,4-Dichlorobenzene	0.97	U	0.31	9.7
2,2'-oxybis[1-chloropropane]	0.97	U	0.27	9.7
2,3,4,6-Tetrachlorophenol	1.9	U	1.9	48
2,4,5-Trichlorophenol	0.97	U	0.44	19
2,4,6-Trichlorophenol	0.97	U	0.28	19
2,4-Dichlorophenol	1.9	U	0.62	9.7
2,4-Dimethylphenol	3.9	U	0.56	9.7
2,4-Dinitrophenol	19	U	9.7	77
2,4-Dinitrotoluene	3.9	U	1.6	19
2,6-Dichlorophenol	3.9	U	1.3	9.7
2,6-Dinitrotoluene	3.9	U	1.8	19
2-Chloronaphthalene	0.97	U	0.25	9.7
2-Chlorophenol	3.9	U	1.9	9.7
2-Methylnaphthalene	0.97	U	0.28	9.7
2-Methylphenol	3.9	U	0.95	9.7
2-Nitroaniline	3.9	U	1.7	48
2-Nitrophenol	0.97	U	0.38	19
3 & 4 Methylphenol	0.97	U	0.24	19
3,3'-Dichlorobenzidine	9.7	U	1.9	48
3-Nitroaniline	1.9	U	1.9	48
4,6-Dinitro-2-methylphenol	9.7	U	3.9	77
4-Bromophenyl phenyl ether	0.97	U	0.42	9.7
4-Chloro-3-methylphenol	4.8	U	2.3	19
4-Chloroaniline	4.8	U	2.1	24
4-Chlorophenyl phenyl ether	3.9	U	1.6	9.7
4-Nitroaniline	3.9	U	1.9	48
4-Nitrophenol	9.7	U	1.2	48
Acenaphthene	0.97	U	0.27	9.7
Acenaphthylene	0.97	U	0.47	9.7
Acetophenone	4.8	U	0.23	9.7
Anthracene	0.97	U	0.41	9.7
Atrazine	9.7	U	0.71	48
Benzaldehyde	1.9	U	1.9	9.7
Benzidine	97	U	48	190
Benzo[a]anthracene	0.97	U	0.34	9.7
Benzo[a]pyrene	0.97	U	0.30	9.7
Benzo[b]fluoranthene	0.97	U	0.51	9.7
Benzo[g,h,i]perylene	0.97	U	0.48	9.7
Benzo[k]fluoranthene	0.97	U	0.44	9.7
Benzoic acid	48	U	9.7	77

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: B3VM0114AA

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

8270D/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D/DoD	Analysis Batch:	280-101947	Instrument ID:	MSS_B
Prep Method:	3520C	Prep Batch:	280-99533	Lab File ID:	B8740.D
Dilution:	1.0			Initial Weight/Volume:	1034.3 mL
Analysis Date:	12/29/2011 2009			Final Weight/Volume:	1000 uL
Prep Date:	12/10/2011 1210			Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Benzyl alcohol	0.97	U	0.22	24
Bis(2-chloroethoxy)methane	3.9	U	0.94	9.7
Bis(2-chloroethyl)ether	0.97	U	0.40	19
Bis(2-ethylhexyl) phthalate	0.97	U	0.54	9.7
Butyl benzyl phthalate	3.9	U	0.97	19
Caprolactam	9.7	U	4.8	34
Carbazole	0.97	U	0.42	9.7
Chrysene	0.97	U	0.52	9.7
Dibenz(a,h)anthracene	0.97	U	0.49	9.7
Dibenzofuran	0.97	U	0.28	9.7
Diethyl phthalate	0.97	U	0.37	19
Dimethyl phthalate	0.97	U	0.20	19
Di-n-butyl phthalate	3.9	U	1.1	19
Di-n-octyl phthalate	0.97	U	0.34	19
Fluoranthene	0.97	U	0.19	19
Fluorene	0.97	U	0.30	9.7
Hexachlorobenzene	0.97	U	0.64	9.7
Hexachlorobutadiene	9.7	U	3.2	29
Hexachlorocyclopentadiene	19	U	1.5	48
Hexachloroethane	3.9	U	2.0	9.7
Indeno[1,2,3-cd]pyrene	0.97	U	0.63	9.7
Isophorone	0.97	U	0.20	9.7
Naphthalene	0.97	U	0.28	9.7
Nitrobenzene	1.9	U	0.78	19
N-Nitrosodimethylamine	0.97	U	0.28	9.7
N-Nitrosodi-n-propylamine	0.97	U	0.34	19
N-Nitrosodiphenylamine	0.97	U	0.43	9.7
N-Nitrosopyrrolidine	3.9	U	0.78	9.7
Pentachlorophenol	39	U	19	77
Phenanthrene	0.97	U	0.25	9.7
Phenol	4.8	U	1.9	9.7
Pyrene	0.97	U	0.36	9.7

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	89		40 - 125
2-Fluorobiphenyl	75		50 - 110
2-Fluorophenol (Surr)	82		20 - 110
Nitrobenzene-d5 (Surr)	87		40 - 110
Phenol-d5 (Surr)	87		10 - 115
Terphenyl-d14 (Surr)	80		50 - 135

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: 120711AE

Lab Sample ID: 280-23566-2EB
Client Matrix: Water

Date Sampled: 12/07/2011 1505
Date Received: 12/08/2011 0900

8270D/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D/DoD	Analysis Batch:	280-101947	Instrument ID:	MSS_B
Prep Method:	3520C	Prep Batch:	280-99533	Lab File ID:	B8741.D
Dilution:	1.0			Initial Weight/Volume:	1022.3 mL
Analysis Date:	12/29/2011 2028			Final Weight/Volume:	1000 uL
Prep Date:	12/10/2011 1210			Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1'-Biphenyl	2.0	U	1.7	9.8
1,2,4,5-Tetrachlorobenzene	2.0	U	1.7	9.8
1,2,4-Trichlorobenzene	0.98	U	0.27	9.8
1,2-Dichlorobenzene	0.98	U	0.22	9.8
1,2-Diphenylhydrazine	0.98	U	0.22	9.8
1,3-Dichlorobenzene	0.98	U	0.29	9.8
1,4-Dichlorobenzene	0.98	U	0.31	9.8
2,2'-oxybis[1-chloropropane]	0.98	U	0.27	9.8
2,3,4,6-Tetrachlorophenol	2.0	U	2.0	49
2,4,5-Trichlorophenol	0.98	U	0.44	20
2,4,6-Trichlorophenol	0.98	U	0.28	20
2,4-Dichlorophenol	2.0	U	0.63	9.8
2,4-Dimethylphenol	3.9	U	0.57	9.8
2,4-Dinitrophenol	20	U	9.8	78
2,4-Dinitrotoluene	3.9	U	1.6	20
2,6-Dichlorophenol	3.9	U	1.3	9.8
2,6-Dinitrotoluene	3.9	U	1.8	20
2-Chloronaphthalene	0.98	U	0.25	9.8
2-Chlorophenol	3.9	U	2.0	9.8
2-Methylnaphthalene	0.98	U	0.28	9.8
2-Methylphenol	3.9	U	0.96	9.8
2-Nitroaniline	3.9	U	1.7	49
2-Nitrophenol	0.98	U	0.38	20
3 & 4 Methylphenol	0.98	U	0.24	20
3,3'-Dichlorobenzidine	9.8	U	2.0	49
3-Nitroaniline	2.0	U	2.0	49
4,6-Dinitro-2-methylphenol	9.8	U	3.9	78
4-Bromophenyl phenyl ether	0.98	U	0.42	9.8
4-Chloro-3-methylphenol	4.9	U	2.4	20
4-Chloroaniline	4.9	U	2.1	24
4-Chlorophenyl phenyl ether	3.9	U	1.6	9.8
4-Nitroaniline	3.9	U	2.0	49
4-Nitrophenol	9.8	U	1.2	49
Acenaphthene	0.98	U	0.27	9.8
Acenaphthylene	0.98	U	0.48	9.8
Acetophenone	0.30	J	0.23	9.8
Anthracene	0.98	U	0.41	9.8
Atrazine	9.8	U	0.71	49
Benzaldehyde	2.0	U	2.0	9.8
Benzidine	98	U	49	200
Benzo[a]anthracene	0.98	U	0.34	9.8
Benzo[a]pyrene	0.98	U	0.30	9.8
Benzo[b]fluoranthene	0.98	U	0.52	9.8
Benzo[g,h,i]perylene	0.98	U	0.49	9.8
Benzo[k]fluoranthene	0.98	U	0.45	9.8
Benzoic acid	49	U	9.8	78

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **120711AE**

Lab Sample ID: 280-23566-2EB
Client Matrix: Water

Date Sampled: 12/07/2011 1505
Date Received: 12/08/2011 0900

8270D/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D/DoD	Analysis Batch:	280-101947	Instrument ID:	MSS_B
Prep Method:	3520C	Prep Batch:	280-99533	Lab File ID:	B8741.D
Dilution:	1.0			Initial Weight/Volume:	1022.3 mL
Analysis Date:	12/29/2011 2028			Final Weight/Volume:	1000 uL
Prep Date:	12/10/2011 1210			Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Benzyl alcohol	0.98	U	0.22	24
Bis(2-chloroethoxy)methane	3.9	U	0.95	9.8
Bis(2-chloroethyl)ether	0.98	U	0.40	20
Bis(2-ethylhexyl) phthalate	0.98	U	0.55	9.8
Butyl benzyl phthalate	3.9	U	0.98	20
Caprolactam	9.8	U	4.9	34
Carbazole	0.98	U	0.42	9.8
Chrysene	0.98	U	0.53	9.8
Dibenz(a,h)anthracene	0.98	U	0.50	9.8
Dibenzofuran	0.98	U	0.28	9.8
Diethyl phthalate	0.98	U	0.37	20
Dimethyl phthalate	0.98	U	0.21	20
Di-n-butyl phthalate	3.9	U	1.1	20
Di-n-octyl phthalate	0.98	U	0.34	20
Fluoranthene	0.98	U	0.20	20
Fluorene	0.98	U	0.30	9.8
Hexachlorobenzene	0.98	U	0.65	9.8
Hexachlorobutadiene	9.8	U	3.2	29
Hexachlorocyclopentadiene	20	U	1.5	49
Hexachloroethane	3.9	U	2.1	9.8
Indeno[1,2,3-cd]pyrene	0.98	U	0.64	9.8
Isophorone	0.98	U	0.21	9.8
Naphthalene	0.98	U	0.28	9.8
Nitrobenzene	2.0	U	0.79	20
N-Nitrosodimethylamine	0.98	U	0.28	9.8
N-Nitrosodi-n-propylamine	0.98	U	0.34	20
N-Nitrosodiphenylamine	0.98	U	0.43	9.8
N-Nitrosopyrrolidine	3.9	U	0.79	9.8
Pentachlorophenol	39	U	20	78
Phenanthrene	0.98	U	0.25	9.8
Phenol	4.9	U	2.0	9.8
Pyrene	0.98	U	0.36	9.8

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	87		40 - 125
2-Fluorobiphenyl	75		50 - 110
2-Fluorophenol (Surr)	82		20 - 110
Nitrobenzene-d5 (Surr)	86		40 - 110
Phenol-d5 (Surr)	87		10 - 115
Terphenyl-d14 (Surr)	76		50 - 135

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: B3VM0114AA

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-99890	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-99395	Lab File ID:	25A1121311.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2011 1516			Final Weight/Volume:	50 mL
Prep Date:	12/12/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Aluminum	160	J	18	300
Boron	22	J	4.4	100
Calcium	88000		35	1000
Iron	190		22	100
Magnesium	9200		11	500
Potassium	3700		240	3000
Sodium	78000		92	5000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-101718	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-101476	Lab File ID:	26b122811.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0106			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Aluminum	30	U	18	300
Calcium	89000		35	1000
Iron	30	U	22	100
Magnesium	9200		11	500
Potassium	3600		240	3000
Sodium	80000		92	5000
Boron	26	J	4.4	100

6020 Metals (ICP/MS)

Analysis Method:	6020	Analysis Batch:	280-101714	Instrument ID:	MT_024
Prep Method:	3020A	Prep Batch:	280-101490	Lab File ID:	237SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0433			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	J	0.070	6.0
Arsenic	0.21	J	0.21	5.0
Barium	36		0.29	3.0
Beryllium	0.24	U	0.080	1.0
Cadmium	0.088	J	0.040	1.0
Chromium	3.5	J	0.50	10
Cobalt	0.19	J	0.010	1.0
Copper	1.1	J	0.56	2.0
Lead	0.18	J	0.18	3.0

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Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: B3VM0114AA

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

6020 Metals (ICP/MS)

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Manganese	20		0.31	3.5
Molybdenum	0.79	J	0.14	2.0
Nickel	1.1	J	0.30	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.019	J	0.015	5.0
Thallium	0.072	J	0.020	1.0
Vanadium	0.49	J	0.14	6.0
Zinc	2.2	J	2.0	20

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-101714	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-101478	Lab File ID:	231SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0415			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.15	J	0.070	6.0
Arsenic	0.60	U	0.21	5.0
Barium	33		0.29	3.0
Beryllium	0.24	U	0.080	1.0
Cadmium	0.12	U	0.040	1.0
Chromium	1.6	J	0.50	10
Cobalt	0.079	J	0.010	1.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Manganese	0.90	U	0.31	3.5
Molybdenum	0.71	J	0.14	2.0
Nickel	0.53	J	0.30	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.017	J	0.015	5.0
Thallium	0.063	J	0.020	1.0
Vanadium	0.40	U	0.14	6.0
Zinc	6.0	U	2.0	20

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7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	280-100260	Instrument ID:	MT_034
Prep Method:	7470A	Prep Batch:	280-99940	Lab File ID:	111215TAa.txt
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	12/15/2011 1303			Final Weight/Volume:	30 mL
Prep Date:	12/14/2011 1420				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Mercury	0.080	U	0.027	0.20

7470A Mercury (CVAA)-Dissolved

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **B3VM0114AA**

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	280-99898	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-99589	Lab File ID:	111212ab.txt
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	12/13/2011 1503			Final Weight/Volume:	30 mL
Prep Date:	12/12/2011 1145				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Mercury	0.080	U	0.027	0.20

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: 120711AE

Lab Sample ID: 280-23566-2EB
Client Matrix: Water

Date Sampled: 12/07/2011 1505
Date Received: 12/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-99890	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-99395	Lab File ID:	25A1121311.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2011 1519			Final Weight/Volume:	50 mL
Prep Date:	12/12/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Aluminum	30	U	18	300
Boron	4.0	U	4.4	100
Calcium	140	J	35	1000
Iron	30	U	22	100
Magnesium	25	U	11	500
Potassium	250	U	240	3000
Sodium	250	U	92	5000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-101718	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-101476	Lab File ID:	26b122811.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0118			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Aluminum	30	U	18	300
Calcium	67	J	35	1000
Iron	30	U	22	100
Magnesium	25	U	11	500
Potassium	250	U	240	3000
Sodium	170	J	92	5000
Boron	7.0	U	4.4	100

6020 Metals (ICP/MS)

Analysis Method:	6020	Analysis Batch:	280-101714	Instrument ID:	MT_024
Prep Method:	3020A	Prep Batch:	280-101490	Lab File ID:	238SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0436			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U	0.070	6.0
Arsenic	0.60	U	0.21	5.0
Barium	0.38	J	0.29	3.0
Beryllium	0.24	U	0.080	1.0
Cadmium	0.12	U	0.040	1.0
Chromium	1.5	U	0.50	10
Cobalt	0.030	U	0.010	1.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0

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Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: 120711AE

Lab Sample ID: 280-23566-2EB
Client Matrix: Water

Date Sampled: 12/07/2011 1505
Date Received: 12/08/2011 0900

6020 Metals (ICP/MS)

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Manganese	0.90	U	0.31	3.5
Molybdenum	0.40	U	0.14	2.0
Nickel	0.90	U	0.30	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.045	U	0.015	5.0
Thallium	0.060	U	0.020	1.0
Vanadium	0.40	U	0.14	6.0
Zinc	3.8	J	2.0	20

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-101714	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-101478	Lab File ID:	232AREF.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0418			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U	0.070	6.0
Arsenic	0.60	U	0.21	5.0
Barium	0.85	U	0.29	3.0
Beryllium	0.24	U	0.080	1.0
Cadmium	0.12	U	0.040	1.0
Chromium	1.5	U	0.50	10
Cobalt	0.030	U	0.010	1.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Manganese	0.90	U	0.31	3.5
Molybdenum	0.40	U	0.14	2.0
Nickel	0.90	U	0.30	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.045	U	0.015	5.0
Thallium	0.060	U	0.020	1.0
Vanadium	0.40	U	0.14	6.0
Zinc	2.3	J	2.0	20

2/16/12

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	280-100260	Instrument ID:	MT_034
Prep Method:	7470A	Prep Batch:	280-99940	Lab File ID:	111215TAa.txt
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	12/15/2011 1306			Final Weight/Volume:	30 mL
Prep Date:	12/14/2011 1420				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Mercury	0.080	U	0.027	0.20

7470A Mercury (CVAA)-Dissolved

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: 120711AE

Lab Sample ID: 280-23566-2EB

Client Matrix: Water

Date Sampled: 12/07/2011 1505

Date Received: 12/08/2011 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	280-99898	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-99589	Lab File ID:	111212ab.txt
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	12/13/2011 1506			Final Weight/Volume:	30 mL
Prep Date:	12/12/2011 1145				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Mercury	0.080	U	0.027	0.20

APPENDIX E

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-23566-1

Job Description: Griffiss AFB Building 3

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

Attention: Daniel Baldyga

M. Elaine Walker

Approved for release.
Elaine Walker
Project Manager I
1/9/2012 1:27 PM

Elaine Walker
Project Manager I
elaine.walker@testamericainc.com
01/09/2012

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

The Lab Certification ID# is E87667.

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

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE
Client: FPM Remediations Inc
Project: Griffiss AFB Building 3
Report Number: 280-23566-1

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

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

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

RECEIPT

Four samples were received on 12/08/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.7oC and 4.4oC.

A sample ID discrepancy was noted between the information listed on the chain-of-custody and the sample container label for TA Denver sample 280-23566-1. The chain-of-custody lists the sample ID as B3VM0114AA, while the container label lists the sample ID as B03VM0114AA. The sample ID was logged per the chain-of-custody. The client was notified of this discrepancy via email on 12/08/2011.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples B3VM0114AA (280-23566-1), 120711AE (280-23566-2), 120711AF (280-23566-3), and 120711AR (280-23566-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/21/2011.

Methylene Chloride was detected in method blank MB 280-101066/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

The presence of the '4' qualifier in the report indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/10/2011 and analyzed on 12/29/2011.

No difficulties were encountered during the SVOC analyses.

All quality control parameters were within the acceptance limits.

TOTAL METALS

Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/12/2011 and analyzed on 12/13/2011.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

TOTAL METALS

Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for total metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 12/28/2011 and analyzed on 12/29/2011.

Thallium was detected in method blank MB 280-101490/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

The ICSA solution, which is used as the ICP-MS interference check standard, shows results for several metals at levels above the DoD

acceptance limits (>LOD). For prep batch 280-101490 the initial ICSA solution was above the DoD acceptance limit for Cadmium. We believe the solution contains trace impurities of this element and that the result is not an artifact of matrix interference. This result agrees with that found by the manufacturer of the ICSA solution. The associated sample results have been flagged "Q" for Cadmium.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS

Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/28/2011 and analyzed on 12/29/2011.

Sodium was detected in method blank MB 280-101476/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

No other difficulties were encountered during the dissolved metals analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS

Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 12/28/2011 and analyzed on 12/29/2011.

The ICSA solution, which is used as the ICP-MS interference check standard, shows results for several metals at levels above the DoD acceptance limits (>LOD). For prep batch 280-101478 the initial ICSA solution was above the DoD acceptance limit for Cadmium. We believe the solution contains trace impurities of this element and that the result is not an artifact of matrix interference. This result agrees with that found by the manufacturer of the ICSA solution. The associated sample results have been flagged "Q" for Cadmium.

No other difficulties were encountered during the dissolved metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/14/2011 and analyzed on 12/15/2011.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED MERCURY

Samples B3VM0114AA (280-23566-1) and 120711AE (280-23566-2) were analyzed for dissolved mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/12/2011 and analyzed on 12/13/2011.

No difficulties were encountered during the dissolved mercury analyses.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: FPM Remediations Inc

Job Number: 280-23566-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-23566-1	B3VM0114AA	Water	12/07/2011 1120	12/08/2011 0900
280-23566-2EB	120711AE	Water	12/07/2011 1505	12/08/2011 0900
280-23566-3FB	120711AF	Water	12/07/2011 1140	12/08/2011 0900
280-23566-4TB	120711AR	Water	12/07/2011 0930	12/08/2011 0900

EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-23566-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-23566-1	**B3VM0114AA**					
1,1,1-Trichloroethane		0.33	J	1.0	ug/L	8260B/DoD
Chloroform		0.21	J	1.0	ug/L	8260B/DoD
Methylene Chloride		0.52	J	5.0	ug/L	8260B/DoD
Trichloroethene		0.80	J	1.0	ug/L	8260B/DoD
Aluminum		160	J	300	ug/L	6010B
Boron		22	J	100	ug/L	6010B
Calcium		88000		1000	ug/L	6010B
Iron		190		100	ug/L	6010B
Magnesium		9200		500	ug/L	6010B
Potassium		3700		3000	ug/L	6010B
Sodium		78000		5000	ug/L	6010B
Antimony		0.20	J	6.0	ug/L	6020
Arsenic		0.21	J	5.0	ug/L	6020
Barium		36		3.0	ug/L	6020
Cadmium		0.088	J Q	1.0	ug/L	6020
Chromium		3.5	J	10	ug/L	6020
Cobalt		0.19	J	1.0	ug/L	6020
Copper		1.1	J	2.0	ug/L	6020
Lead		0.18	J	3.0	ug/L	6020
Manganese		20		3.5	ug/L	6020
Molybdenum		0.79	J	2.0	ug/L	6020
Nickel		1.1	J	3.0	ug/L	6020
Silver		0.019	J	5.0	ug/L	6020
Thallium		0.072	J	1.0	ug/L	6020
Vanadium		0.49	J	6.0	ug/L	6020
Zinc		2.2	J	20	ug/L	6020
Dissolved						
Calcium		89000		1000	ug/L	6010B
Magnesium		9200		500	ug/L	6010B
Potassium		3600		3000	ug/L	6010B
Sodium		80000		5000	ug/L	6010B
Boron		26	J	100	ug/L	6010B
Antimony		0.15	J	6.0	ug/L	6020
Barium		33		3.0	ug/L	6020
Chromium		1.6	J	10	ug/L	6020
Cobalt		0.079	J	1.0	ug/L	6020
Molybdenum		0.71	J	2.0	ug/L	6020
Nickel		0.53	J	3.0	ug/L	6020
Silver		0.017	J	5.0	ug/L	6020
Thallium		0.063	J	1.0	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: FPM Remediations Inc

Job Number: 280-23566-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-23566-2EB	**120711AE**					
Methylene Chloride		0.64	J	5.0	ug/L	8260B/DoD
Acetophenone		0.30	J	9.8	ug/L	8270D/DoD
Calcium		140	J	1000	ug/L	6010B
Barium		0.38	J	3.0	ug/L	6020
Zinc		3.8	J	20	ug/L	6020
Dissolved						
Calcium		67	J	1000	ug/L	6010B
Sodium		170	J	5000	ug/L	6010B
Zinc		2.3	J	20	ug/L	6020
280-23566-3FB	**120711AF**					
Methylene Chloride		1.1	J	5.0	ug/L	8260B/DoD
280-23566-4TB	**120711AR**					
Methylene Chloride		0.62	J	5.0	ug/L	8260B/DoD

METHOD SUMMARY

Client: FPM Remediations Inc

Job Number: 280-23566-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B/DoD	
Purge and Trap	TAL DEN		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270D/DoD	
Liquid-Liquid Extraction (Continuous)			SW846 3520C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals			SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Metals			SW846 3010A
Metals (ICP/MS)	TAL DEN	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals			SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Metals (ICP/MS)	TAL DEN	SW846 6020	
Preparation, Total Metals			SW846 3020A
Mercury (CVAA)	TAL DEN	SW846 7470A	
Preparation, Mercury			SW846 7470A
Mercury (CVAA)	TAL DEN	SW846 7470A	
Preparation, Mercury			SW846 7470A
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL DEN = TestAmerica Denver

Method References:

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

METHOD / ANALYST SUMMARY

Client: FPM Remediations Inc

Job Number: 280-23566-1

Method	Analyst	Analyst ID
SW846 8260B/DoD	Meier, Greg P	GPM
SW846 8270D/DoD	Kiekel, Daniel C	DCK
SW846 6010B	Bowen, Heidi E	HEB
SW846 6010B	Harre, John K	JKH
SW846 6020	Lill, Thomas E	TEL
SW846 7470A	Rawlings, Brendon L	BLR

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **B3VM0114AA**

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3002.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1549			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1549				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1,1,2-Tetrachloroethane	0.20	U	0.17	1.0
1,1,1-Trichloroethane	0.33	J	0.16	1.0
1,1,2,2-Tetrachloroethane	0.40	U	0.20	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	U	0.79	3.0
1,1,2-Trichloroethane	0.40	U	0.32	1.0
1,1-Dichloroethane	0.20	U	0.16	1.0
1,1-Dichloroethene	0.20	U	0.14	1.0
1,1-Dichloropropene	0.40	U	0.15	1.0
1,2,3-Trichlorobenzene	0.40	U	0.18	1.0
1,2,3-Trichloropropane	0.80	U	0.77	3.0
1,2,4-Trichlorobenzene	0.80	U	0.32	1.0
1,2,4-Trimethylbenzene	0.20	U	0.14	1.0
1,2-Dibromo-3-Chloropropane	1.6	U	0.81	5.0
1,2-Dichlorobenzene	0.20	U	0.13	1.0
1,2-Dichloroethane	0.20	U	0.13	1.0
1,2-Dichloropropane	0.20	U	0.13	1.0
1,3,5-Trimethylbenzene	0.80	U	0.14	1.0
1,3-Dichlorobenzene	0.20	U	0.16	1.0
1,3-Dichloropropane	0.20	U	0.15	1.0
1,4-Dichlorobenzene	0.40	U	0.16	1.0
1,4-Dioxane	80	U	71	220
1-Chlorohexane	0.20	U	0.17	1.0
2,2-Dichloropropane	0.40	U	0.20	1.0
2-Butanone (MEK)	3.2	U	1.8	6.0
2-Chlorotoluene	0.40	U	0.17	1.0
2-Hexanone	3.2	U	1.4	5.0
4-Chlorotoluene	0.40	U	0.17	1.0
4-Isopropyltoluene	0.40	U	0.17	1.0
4-Methyl-2-pentanone (MIBK)	3.2	U	1.0	5.0
Acetone	6.4	U	1.9	10
Benzene	0.20	U	0.16	1.0
Bromobenzene	0.20	U	0.17	1.0
Bromoform	0.40	U	0.19	1.0
Bromomethane	0.40	U	0.21	2.0
Carbon disulfide	0.80	U	0.45	2.0
Carbon tetrachloride	0.40	U	0.19	2.0
Chlorobenzene	0.20	U	0.17	1.0
Chlorobromomethane	0.20	U	0.10	1.0
Chlorodibromomethane	0.40	U	0.17	1.0
Chloroethane	1.6	U	0.41	2.0
Chloroform	0.21	J	0.16	1.0
Chloromethane	1.6	U	0.30	2.0
cis-1,2-Dichloroethene	0.20	U	0.15	1.0
cis-1,3-Dichloropropene	0.20	U	0.16	1.0
Cyclohexane	0.40	U	0.28	2.0
Dibromomethane	0.40	U	0.17	1.0

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **B3VM0114AA**

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3002.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1549			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1549				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.52	J	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.80	J	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 120
4-Bromofluorobenzene (Surr)	99		75 - 120
Dibromofluoromethane (Surr)	106		85 - 115
Toluene-d8 (Surr)	99		85 - 120

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **120711AE**

Lab Sample ID: 280-23566-2EB
Client Matrix: Water

Date Sampled: 12/07/2011 1505
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3003.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1611			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1611				

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

Client: FPM Remediations Inc | Job Number: 280-23566-1

Client Sample ID: **120711AE**

Lab Sample ID: 280-23566-2EB | Date Sampled: 12/07/2011 1505
Client Matrix: Water | Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3003.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1611			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1611				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.64	J	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 120
4-Bromofluorobenzene (Surr)	96		75 - 120
Dibromofluoromethane (Surr)	103		85 - 115
Toluene-d8 (Surr)	98		85 - 120

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **120711AF**

Lab Sample ID: 280-23566-3FB
Client Matrix: Water

Date Sampled: 12/07/2011 1140
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3004.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1633			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1633				

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

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **120711AF**

Lab Sample ID: 280-23566-3FB
Client Matrix: Water

Date Sampled: 12/07/2011 1140
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3004.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1633			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1633				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	1.1	J	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 120
4-Bromofluorobenzene (Surr)	94		75 - 120
Dibromofluoromethane (Surr)	102		85 - 115
Toluene-d8 (Surr)	97		85 - 120

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **120711AR**

Lab Sample ID: 280-23566-4TB
Client Matrix: Water

Date Sampled: 12/07/2011 0930
Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3005.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1655			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1655				

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

Client: FPM Remediations Inc | Job Number: 280-23566-1

Client Sample ID: **120711AR**

Lab Sample ID: 280-23566-4TB | Date Sampled: 12/07/2011 0930
Client Matrix: Water | Date Received: 12/08/2011 0900

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

Analysis Method:	8260B/DoD	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q3005.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1655			Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1655				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.62	J	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 120
4-Bromofluorobenzene (Surr)	99		75 - 120
Dibromofluoromethane (Surr)	101		85 - 115
Toluene-d8 (Surr)	95		85 - 120

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **B3VM0114AA**

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

8270D/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D/DoD	Analysis Batch:	280-101947	Instrument ID:	MSS_B
Prep Method:	3520C	Prep Batch:	280-99533	Lab File ID:	B8740.D
Dilution:	1.0			Initial Weight/Volume:	1034.3 mL
Analysis Date:	12/29/2011 2009			Final Weight/Volume:	1000 uL
Prep Date:	12/10/2011 1210			Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1'-Biphenyl	1.9	U	1.7	9.7
1,2,4,5-Tetrachlorobenzene	1.9	U	1.7	9.7
1,2,4-Trichlorobenzene	0.97	U	0.27	9.7
1,2-Dichlorobenzene	0.97	U	0.22	9.7
1,2-Diphenylhydrazine	0.97	U	0.22	9.7
1,3-Dichlorobenzene	0.97	U	0.29	9.7
1,4-Dichlorobenzene	0.97	U	0.31	9.7
2,2'-oxybis[1-chloropropane]	0.97	U	0.27	9.7
2,3,4,6-Tetrachlorophenol	1.9	U	1.9	48
2,4,5-Trichlorophenol	0.97	U	0.44	19
2,4,6-Trichlorophenol	0.97	U	0.28	19
2,4-Dichlorophenol	1.9	U	0.62	9.7
2,4-Dimethylphenol	3.9	U	0.56	9.7
2,4-Dinitrophenol	19	U	9.7	77
2,4-Dinitrotoluene	3.9	U	1.6	19
2,6-Dichlorophenol	3.9	U	1.3	9.7
2,6-Dinitrotoluene	3.9	U	1.8	19
2-Chloronaphthalene	0.97	U	0.25	9.7
2-Chlorophenol	3.9	U	1.9	9.7
2-Methylnaphthalene	0.97	U	0.28	9.7
2-Methylphenol	3.9	U	0.95	9.7
2-Nitroaniline	3.9	U	1.7	48
2-Nitrophenol	0.97	U	0.38	19
3 & 4 Methylphenol	0.97	U	0.24	19
3,3'-Dichlorobenzidine	9.7	U	1.9	48
3-Nitroaniline	1.9	U	1.9	48
4,6-Dinitro-2-methylphenol	9.7	U	3.9	77
4-Bromophenyl phenyl ether	0.97	U	0.42	9.7
4-Chloro-3-methylphenol	4.8	U	2.3	19
4-Chloroaniline	4.8	U	2.1	24
4-Chlorophenyl phenyl ether	3.9	U	1.6	9.7
4-Nitroaniline	3.9	U	1.9	48
4-Nitrophenol	9.7	U	1.2	48
Acenaphthene	0.97	U	0.27	9.7
Acenaphthylene	0.97	U	0.47	9.7
Acetophenone	4.8	U	0.23	9.7
Anthracene	0.97	U	0.41	9.7
Atrazine	9.7	U	0.71	48
Benzaldehyde	1.9	U	1.9	9.7
Benzidine	97	U	48	190
Benzo[a]anthracene	0.97	U	0.34	9.7
Benzo[a]pyrene	0.97	U	0.30	9.7
Benzo[b]fluoranthene	0.97	U	0.51	9.7
Benzo[g,h,i]perylene	0.97	U	0.48	9.7
Benzo[k]fluoranthene	0.97	U	0.44	9.7
Benzoic acid	48	U	9.7	77

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **B3VM0114AA**

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

8270D/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D/DoD	Analysis Batch:	280-101947	Instrument ID:	MSS_B
Prep Method:	3520C	Prep Batch:	280-99533	Lab File ID:	B8740.D
Dilution:	1.0			Initial Weight/Volume:	1034.3 mL
Analysis Date:	12/29/2011 2009			Final Weight/Volume:	1000 uL
Prep Date:	12/10/2011 1210			Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Benzyl alcohol	0.97	U	0.22	24
Bis(2-chloroethoxy)methane	3.9	U	0.94	9.7
Bis(2-chloroethyl)ether	0.97	U	0.40	19
Bis(2-ethylhexyl) phthalate	0.97	U	0.54	9.7
Butyl benzyl phthalate	3.9	U	0.97	19
Caprolactam	9.7	U	4.8	34
Carbazole	0.97	U	0.42	9.7
Chrysene	0.97	U	0.52	9.7
Dibenz(a,h)anthracene	0.97	U	0.49	9.7
Dibenzofuran	0.97	U	0.28	9.7
Diethyl phthalate	0.97	U	0.37	19
Dimethyl phthalate	0.97	U	0.20	19
Di-n-butyl phthalate	3.9	U	1.1	19
Di-n-octyl phthalate	0.97	U	0.34	19
Fluoranthene	0.97	U	0.19	19
Fluorene	0.97	U	0.30	9.7
Hexachlorobenzene	0.97	U	0.64	9.7
Hexachlorobutadiene	9.7	U	3.2	29
Hexachlorocyclopentadiene	19	U	1.5	48
Hexachloroethane	3.9	U	2.0	9.7
Indeno[1,2,3-cd]pyrene	0.97	U	0.63	9.7
Isophorone	0.97	U	0.20	9.7
Naphthalene	0.97	U	0.28	9.7
Nitrobenzene	1.9	U	0.78	19
N-Nitrosodimethylamine	0.97	U	0.28	9.7
N-Nitrosodi-n-propylamine	0.97	U	0.34	19
N-Nitrosodiphenylamine	0.97	U	0.43	9.7
N-Nitrosopyrrolidine	3.9	U	0.78	9.7
Pentachlorophenol	39	U	19	77
Phenanthrene	0.97	U	0.25	9.7
Phenol	4.8	U	1.9	9.7
Pyrene	0.97	U	0.36	9.7

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	89		40 - 125
2-Fluorobiphenyl	75		50 - 110
2-Fluorophenol (Surr)	82		20 - 110
Nitrobenzene-d5 (Surr)	87		40 - 110
Phenol-d5 (Surr)	87		10 - 115
Terphenyl-d14 (Surr)	80		50 - 135

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **120711AE**

Lab Sample ID: 280-23566-2EB
Client Matrix: Water

Date Sampled: 12/07/2011 1505
Date Received: 12/08/2011 0900

8270D/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D/DoD	Analysis Batch:	280-101947	Instrument ID:	MSS_B
Prep Method:	3520C	Prep Batch:	280-99533	Lab File ID:	B8741.D
Dilution:	1.0			Initial Weight/Volume:	1022.3 mL
Analysis Date:	12/29/2011 2028			Final Weight/Volume:	1000 uL
Prep Date:	12/10/2011 1210			Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,1'-Biphenyl	2.0	U	1.7	9.8
1,2,4,5-Tetrachlorobenzene	2.0	U	1.7	9.8
1,2,4-Trichlorobenzene	0.98	U	0.27	9.8
1,2-Dichlorobenzene	0.98	U	0.22	9.8
1,2-Diphenylhydrazine	0.98	U	0.22	9.8
1,3-Dichlorobenzene	0.98	U	0.29	9.8
1,4-Dichlorobenzene	0.98	U	0.31	9.8
2,2'-oxybis[1-chloropropane]	0.98	U	0.27	9.8
2,3,4,6-Tetrachlorophenol	2.0	U	2.0	49
2,4,5-Trichlorophenol	0.98	U	0.44	20
2,4,6-Trichlorophenol	0.98	U	0.28	20
2,4-Dichlorophenol	2.0	U	0.63	9.8
2,4-Dimethylphenol	3.9	U	0.57	9.8
2,4-Dinitrophenol	20	U	9.8	78
2,4-Dinitrotoluene	3.9	U	1.6	20
2,6-Dichlorophenol	3.9	U	1.3	9.8
2,6-Dinitrotoluene	3.9	U	1.8	20
2-Chloronaphthalene	0.98	U	0.25	9.8
2-Chlorophenol	3.9	U	2.0	9.8
2-Methylnaphthalene	0.98	U	0.28	9.8
2-Methylphenol	3.9	U	0.96	9.8
2-Nitroaniline	3.9	U	1.7	49
2-Nitrophenol	0.98	U	0.38	20
3 & 4 Methylphenol	0.98	U	0.24	20
3,3'-Dichlorobenzidine	9.8	U	2.0	49
3-Nitroaniline	2.0	U	2.0	49
4,6-Dinitro-2-methylphenol	9.8	U	3.9	78
4-Bromophenyl phenyl ether	0.98	U	0.42	9.8
4-Chloro-3-methylphenol	4.9	U	2.4	20
4-Chloroaniline	4.9	U	2.1	24
4-Chlorophenyl phenyl ether	3.9	U	1.6	9.8
4-Nitroaniline	3.9	U	2.0	49
4-Nitrophenol	9.8	U	1.2	49
Acenaphthene	0.98	U	0.27	9.8
Acenaphthylene	0.98	U	0.48	9.8
Acetophenone	0.30	J	0.23	9.8
Anthracene	0.98	U	0.41	9.8
Atrazine	9.8	U	0.71	49
Benzaldehyde	2.0	U	2.0	9.8
Benzidine	98	U	49	200
Benzo[a]anthracene	0.98	U	0.34	9.8
Benzo[a]pyrene	0.98	U	0.30	9.8
Benzo[b]fluoranthene	0.98	U	0.52	9.8
Benzo[g,h,i]perylene	0.98	U	0.49	9.8
Benzo[k]fluoranthene	0.98	U	0.45	9.8
Benzoic acid	49	U	9.8	78

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **120711AE**

Lab Sample ID: 280-23566-2EB
Client Matrix: Water

Date Sampled: 12/07/2011 1505
Date Received: 12/08/2011 0900

8270D/DoD Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D/DoD	Analysis Batch:	280-101947	Instrument ID:	MSS_B
Prep Method:	3520C	Prep Batch:	280-99533	Lab File ID:	B8741.D
Dilution:	1.0			Initial Weight/Volume:	1022.3 mL
Analysis Date:	12/29/2011 2028			Final Weight/Volume:	1000 uL
Prep Date:	12/10/2011 1210			Injection Volume:	0.5 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Benzyl alcohol	0.98	U	0.22	24
Bis(2-chloroethoxy)methane	3.9	U	0.95	9.8
Bis(2-chloroethyl)ether	0.98	U	0.40	20
Bis(2-ethylhexyl) phthalate	0.98	U	0.55	9.8
Butyl benzyl phthalate	3.9	U	0.98	20
Caprolactam	9.8	U	4.9	34
Carbazole	0.98	U	0.42	9.8
Chrysene	0.98	U	0.53	9.8
Dibenz(a,h)anthracene	0.98	U	0.50	9.8
Dibenzofuran	0.98	U	0.28	9.8
Diethyl phthalate	0.98	U	0.37	20
Dimethyl phthalate	0.98	U	0.21	20
Di-n-butyl phthalate	3.9	U	1.1	20
Di-n-octyl phthalate	0.98	U	0.34	20
Fluoranthene	0.98	U	0.20	20
Fluorene	0.98	U	0.30	9.8
Hexachlorobenzene	0.98	U	0.65	9.8
Hexachlorobutadiene	9.8	U	3.2	29
Hexachlorocyclopentadiene	20	U	1.5	49
Hexachloroethane	3.9	U	2.1	9.8
Indeno[1,2,3-cd]pyrene	0.98	U	0.64	9.8
Isophorone	0.98	U	0.21	9.8
Naphthalene	0.98	U	0.28	9.8
Nitrobenzene	2.0	U	0.79	20
N-Nitrosodimethylamine	0.98	U	0.28	9.8
N-Nitrosodi-n-propylamine	0.98	U	0.34	20
N-Nitrosodiphenylamine	0.98	U	0.43	9.8
N-Nitrosopyrrolidine	3.9	U	0.79	9.8
Pentachlorophenol	39	U	20	78
Phenanthrene	0.98	U	0.25	9.8
Phenol	4.9	U	2.0	9.8
Pyrene	0.98	U	0.36	9.8

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol (Surr)	87		40 - 125
2-Fluorobiphenyl	75		50 - 110
2-Fluorophenol (Surr)	82		20 - 110
Nitrobenzene-d5 (Surr)	86		40 - 110
Phenol-d5 (Surr)	87		10 - 115
Terphenyl-d14 (Surr)	76		50 - 135

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **B3VM0114AA**

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-99890	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-99395	Lab File ID:	25A1121311.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2011 1516			Final Weight/Volume:	50 mL
Prep Date:	12/12/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Aluminum	160	J	18	300
Boron	22	J	4.4	100
Calcium	88000		35	1000
Iron	190		22	100
Magnesium	9200		11	500
Potassium	3700		240	3000
Sodium	78000		92	5000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-101718	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-101476	Lab File ID:	26b122811.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0106			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Aluminum	30	U	18	300
Calcium	89000		35	1000
Iron	30	U	22	100
Magnesium	9200		11	500
Potassium	3600		240	3000
Sodium	80000		92	5000
Boron	26	J	4.4	100

6020 Metals (ICP/MS)

Analysis Method:	6020	Analysis Batch:	280-101714	Instrument ID:	MT_024
Prep Method:	3020A	Prep Batch:	280-101490	Lab File ID:	237SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0433			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	J	0.070	6.0
Arsenic	0.21	J	0.21	5.0
Barium	36		0.29	3.0
Beryllium	0.24	U	0.080	1.0
Cadmium	0.088	J Q	0.040	1.0
Chromium	3.5	J	0.50	10
Cobalt	0.19	J	0.010	1.0
Copper	1.1	J	0.56	2.0
Lead	0.18	J	0.18	3.0

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **B3VM0114AA**

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

6020 Metals (ICP/MS)

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Manganese	20		0.31	3.5
Molybdenum	0.79	J	0.14	2.0
Nickel	1.1	J	0.30	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.019	J	0.015	5.0
Thallium	0.072	J	0.020	1.0
Vanadium	0.49	J	0.14	6.0
Zinc	2.2	J	2.0	20

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-101714	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-101478	Lab File ID:	231SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0415			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.15	J	0.070	6.0
Arsenic	0.60	U	0.21	5.0
Barium	33		0.29	3.0
Beryllium	0.24	U	0.080	1.0
Cadmium	0.12	U Q	0.040	1.0
Chromium	1.6	J	0.50	10
Cobalt	0.079	J	0.010	1.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Manganese	0.90	U	0.31	3.5
Molybdenum	0.71	J	0.14	2.0
Nickel	0.53	J	0.30	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.017	J	0.015	5.0
Thallium	0.063	J	0.020	1.0
Vanadium	0.40	U	0.14	6.0
Zinc	6.0	U	2.0	20

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	280-100260	Instrument ID:	MT_034
Prep Method:	7470A	Prep Batch:	280-99940	Lab File ID:	111215TAa.txt
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	12/15/2011 1303			Final Weight/Volume:	30 mL
Prep Date:	12/14/2011 1420				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Mercury	0.080	U	0.027	0.20

7470A Mercury (CVAA)-Dissolved

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **B3VM0114AA**

Lab Sample ID: 280-23566-1
Client Matrix: Water

Date Sampled: 12/07/2011 1120
Date Received: 12/08/2011 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	280-99898	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-99589	Lab File ID:	111212ab.txt
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	12/13/2011 1503			Final Weight/Volume:	30 mL
Prep Date:	12/12/2011 1145				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Mercury	0.080	U	0.027	0.20

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **120711AE**

Lab Sample ID: 280-23566-2EB
Client Matrix: Water

Date Sampled: 12/07/2011 1505
Date Received: 12/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-99890	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-99395	Lab File ID:	25A1121311.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2011 1519			Final Weight/Volume:	50 mL
Prep Date:	12/12/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Aluminum	30	U	18	300
Boron	4.0	U	4.4	100
Calcium	140	J	35	1000
Iron	30	U	22	100
Magnesium	25	U	11	500
Potassium	250	U	240	3000
Sodium	250	U	92	5000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-101718	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-101476	Lab File ID:	26b122811.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0118			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Aluminum	30	U	18	300
Calcium	67	J	35	1000
Iron	30	U	22	100
Magnesium	25	U	11	500
Potassium	250	U	240	3000
Sodium	170	J	92	5000
Boron	7.0	U	4.4	100

6020 Metals (ICP/MS)

Analysis Method:	6020	Analysis Batch:	280-101714	Instrument ID:	MT_024
Prep Method:	3020A	Prep Batch:	280-101490	Lab File ID:	238SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0436			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U	0.070	6.0
Arsenic	0.60	U	0.21	5.0
Barium	0.38	J	0.29	3.0
Beryllium	0.24	U	0.080	1.0
Cadmium	0.12	U Q	0.040	1.0
Chromium	1.5	U	0.50	10
Cobalt	0.030	U	0.010	1.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **120711AE**

Lab Sample ID: 280-23566-2EB
Client Matrix: Water

Date Sampled: 12/07/2011 1505
Date Received: 12/08/2011 0900

6020 Metals (ICP/MS)

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Manganese	0.90	U	0.31	3.5
Molybdenum	0.40	U	0.14	2.0
Nickel	0.90	U	0.30	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.045	U	0.015	5.0
Thallium	0.060	U	0.020	1.0
Vanadium	0.40	U	0.14	6.0
Zinc	3.8	J	2.0	20

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-101714	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-101478	Lab File ID:	232AREF.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0418			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U	0.070	6.0
Arsenic	0.60	U	0.21	5.0
Barium	0.85	U	0.29	3.0
Beryllium	0.24	U	0.080	1.0
Cadmium	0.12	U Q	0.040	1.0
Chromium	1.5	U	0.50	10
Cobalt	0.030	U	0.010	1.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Manganese	0.90	U	0.31	3.5
Molybdenum	0.40	U	0.14	2.0
Nickel	0.90	U	0.30	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.045	U	0.015	5.0
Thallium	0.060	U	0.020	1.0
Vanadium	0.40	U	0.14	6.0
Zinc	2.3	J	2.0	20

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	280-100260	Instrument ID:	MT_034
Prep Method:	7470A	Prep Batch:	280-99940	Lab File ID:	111215TAa.txt
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	12/15/2011 1306			Final Weight/Volume:	30 mL
Prep Date:	12/14/2011 1420				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Mercury	0.080	U	0.027	0.20

7470A Mercury (CVAA)-Dissolved

Client: FPM Remediations Inc

Job Number: 280-23566-1

Client Sample ID: **120711AE**

Lab Sample ID: 280-23566-2EB
Client Matrix: Water

Date Sampled: 12/07/2011 1505
Date Received: 12/08/2011 0900

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	280-99898	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-99589	Lab File ID:	111212ab.txt
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	12/13/2011 1506			Final Weight/Volume:	30 mL
Prep Date:	12/12/2011 1145				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Mercury	0.080	U	0.027	0.20

Client: FPM Remediations Inc

Job Number: 280-23566-1

Surrogate Recovery Report

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

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-23566-1	B3VM0114AA	106	106	99	99
280-23566-2	120711AE	103	104	98	96
280-23566-3	120711AF	102	102	97	94
280-23566-4	120711AR	101	99	95	99
MB 280-101066/5		107	112	97	98
LCS 280-101066/4		102	106	90	93
LCSD 280-101066/6		101	103	92	91

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	85-115
DCA = 1,2-Dichloroethane-d4 (Surr)	70-120
TOL = Toluene-d8 (Surr)	85-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Client: FPM Remediations Inc

Job Number: 280-23566-1

Surrogate Recovery Report

8270D/DoD Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
280-23566-1	B3VM0114AA	82	87	87	75	89	80
280-23566-2	120711AE	82	87	86	75	87	76
MB 280-99533/1-A		81	86	85	75	86	87
LCS 280-99533/2-A		81	85	86	78	93	91

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol (Surr)	20-110
PHL = Phenol-d5 (Surr)	10-115
NBZ = Nitrobenzene-d5 (Surr)	40-110
FBP = 2-Fluorobiphenyl	50-110
TBP = 2,4,6-Tribromophenol (Surr)	40-125
TPH = Terphenyl-d14 (Surr)	50-135

Client: FPM Remediations Inc

Job Number: 280-23566-1

Method Blank - Batch: 280-101066

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	MB 280-101066/5	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q2987.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1021	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1021				
Leach Date:	N/A				

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

Client: FPM Remediations Inc

Job Number: 280-23566-1

Method Blank - Batch: 280-101066

Method: 8260B/DoD
Preparation: 5030B

Lab Sample ID:	MB 280-101066/5	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q2987.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1021	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1021				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Dibromomethane	0.40	U	0.17	1.0
Dichlorobromomethane	0.20	U	0.17	1.0
Dichlorodifluoromethane	0.80	U	0.31	2.0
Ethylbenzene	0.20	U	0.16	1.0
Ethylene Dibromide	0.20	U	0.18	1.0
Hexachlorobutadiene	0.40	U	0.12	1.0
Isopropylbenzene	0.40	U	0.19	1.0
Methyl acetate	2.0	U	1.6	5.0
Methyl tert-butyl ether	0.40	U	0.25	5.0
Methylcyclohexane	0.40	U	0.36	2.0
Methylene Chloride	0.775	J	0.32	5.0
m-Xylene & p-Xylene	0.80	U	0.34	2.0
Naphthalene	0.80	U	0.22	1.0
n-Butylbenzene	0.40	U	0.14	1.0
N-Propylbenzene	0.20	U	0.16	1.0
o-Xylene	0.40	U	0.19	1.0
sec-Butylbenzene	0.40	U	0.17	1.0
Styrene	0.40	U	0.17	1.0
tert-Butylbenzene	0.40	U	0.16	1.0
Tetrachloroethene	0.40	U	0.20	1.0
Toluene	0.40	U	0.17	1.0
trans-1,2-Dichloroethene	0.20	U	0.15	1.0
trans-1,3-Dichloropropene	0.40	U	0.19	1.0
Trichloroethene	0.20	U	0.16	1.0
Trichlorofluoromethane	0.80	U	0.29	2.0
Vinyl chloride	0.80	U	0.40	1.5

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112	70 - 120
4-Bromofluorobenzene (Surr)	98	75 - 120
Dibromofluoromethane (Surr)	107	85 - 115
Toluene-d8 (Surr)	97	85 - 120

Client: FPM Remediations Inc

Job Number: 280-23566-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-101066

Method: 8260B/DoD
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-101066/4	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q2985.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 0938	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 0938				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-101066/6	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q2988.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1042	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1042				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1,2-Tetrachloroethane	103	94	80 - 130	10	30		
1,1,1-Trichloroethane	111	100	65 - 130	10	30		
1,1,2,2-Tetrachloroethane	116	101	65 - 130	14	30		
1,1,2-Trichloroethane	118	103	75 - 125	14	30		
1,1-Dichloroethane	116	112	70 - 135	4	30		
1,1-Dichloroethene	127	126	70 - 130	0	30		
1,1-Dichloropropene	111	103	75 - 130	7	30		
1,2,3-Trichlorobenzene	88	80	55 - 140	10	30		
1,2,3-Trichloropropane	108	95	75 - 125	13	30		
1,2,4-Trichlorobenzene	90	80	65 - 135	12	30		
1,2,4-Trimethylbenzene	98	91	75 - 130	8	30		
1,2-Dibromo-3-Chloropropane	89	80	50 - 130	10	30	J	J
1,2-Dichlorobenzene	106	95	70 - 120	11	30		
1,2-Dichloroethane	120	108	70 - 130	11	30		
1,2-Dichloropropane	113	101	75 - 125	11	30		
1,3,5-Trimethylbenzene	99	92	75 - 130	8	30		
1,3-Dichlorobenzene	103	96	75 - 125	8	30		
1,3-Dichloropropane	109	97	75 - 125	12	30		
1,4-Dichlorobenzene	106	95	75 - 125	11	30		
2,2-Dichloropropane	110	100	70 - 135	9	30		
2-Butanone (MEK)	143	119	30 - 150	18	30		
2-Chlorotoluene	100	92	75 - 125	9	30		
2-Hexanone	101	82	55 - 130	21	30		
4-Chlorotoluene	101	91	75 - 130	10	30		
4-Isopropyltoluene	97	89	75 - 130	9	30		
4-Methyl-2-pentanone (MIBK)	113	93	60 - 135	19	30		
Acetone	122	98	40 - 140	22	30		
Benzene	118	108	80 - 120	8	30		
Bromobenzene	107	95	75 - 125	12	30		
Bromoform	96	85	70 - 130	12	30		
Bromomethane	85	67	30 - 145	24	30		
Carbon disulfide	65	67	35 - 160	3	30		
Carbon tetrachloride	113	103	65 - 140	10	30		
Chlorobenzene	104	99	80 - 120	5	30		
Chlorobromomethane	117	102	65 - 130	13	30		
Chlorodibromomethane	107	93	60 - 135	14	30		

Client: FPM Remediations Inc

Job Number: 280-23566-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-101066

Method: 8260B/DoD
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-101066/4	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q2985.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 0938	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 0938				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-101066/6	Analysis Batch:	280-101066	Instrument ID:	MSV_Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q2988.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/21/2011 1042	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	12/21/2011 1042				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloroethane	102	84	60 - 135	20	30		
Chloroform	117	106	65 - 135	10	30		
Chloromethane	86	64	40 - 125	30	30		
cis-1,2-Dichloroethene	113	102	70 - 125	10	30		
cis-1,3-Dichloropropene	109	97	70 - 130	12	30		
Dibromomethane	116	99	75 - 125	16	30		
Dichlorobromomethane	113	102	75 - 120	11	30		
Dichlorodifluoromethane	94	82	30 - 155	13	30		
Ethylbenzene	100	94	75 - 125	6	30		
Ethylene Dibromide	106	96	80 - 120	9	30		
Hexachlorobutadiene	93	86	50 - 140	8	30		
Isopropylbenzene	111	104	75 - 125	6	30		
Methyl tert-butyl ether	103	93	65 - 125	10	30		J
Methylene Chloride	128	124	55 - 140	3	30		
m-Xylene & p-Xylene	98	92	75 - 130	7	30		
Naphthalene	93	74	55 - 140	23	30		
n-Butylbenzene	100	91	70 - 135	9	30		
N-Propylbenzene	100	91	70 - 130	10	30		
o-Xylene	98	90	80 - 120	9	30		
sec-Butylbenzene	96	90	70 - 125	6	30		
Styrene	94	86	65 - 135	9	30		
tert-Butylbenzene	98	91	70 - 130	7	30		
Tetrachloroethene	99	93	45 - 150	7	30		
Toluene	110	102	75 - 120	8	30		
trans-1,2-Dichloroethene	119	116	60 - 140	2	30		
trans-1,3-Dichloropropene	108	94	55 - 140	13	30		
Trichloroethene	111	103	70 - 125	8	30		
Trichlorofluoromethane	98	84	60 - 145	15	30		
Vinyl chloride	85	66	50 - 145	25	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	103	70 - 120
4-Bromofluorobenzene (Surr)	93	91	75 - 120
Dibromofluoromethane (Surr)	102	101	85 - 115
Toluene-d8 (Surr)	90	92	85 - 120

Client: FPM Remediations Inc

Job Number: 280-23566-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-101066

Method: 8260B/DoD
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-101066/4	Units: ug/L		LCSD Lab Sample ID:	LCSD 280-101066/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/21/2011 0938			Analysis Date:	12/21/2011 1042
Prep Date:	12/21/2011 0938			Prep Date:	12/21/2011 1042
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,1,1,2-Tetrachloroethane	5.00	5.00	5.17	4.69
1,1,1-Trichloroethane	5.00	5.00	5.53	5.01
1,1,2,2-Tetrachloroethane	5.00	5.00	5.81	5.04
1,1,2-Trichloroethane	5.00	5.00	5.92	5.13
1,1-Dichloroethane	5.00	5.00	5.81	5.61
1,1-Dichloroethene	5.00	5.00	6.34	6.32
1,1-Dichloropropene	5.00	5.00	5.53	5.14
1,2,3-Trichlorobenzene	5.00	5.00	4.41	3.99
1,2,3-Trichloropropane	5.00	5.00	5.41	4.77
1,2,4-Trichlorobenzene	5.00	5.00	4.50	3.99
1,2,4-Trimethylbenzene	5.00	5.00	4.92	4.55
1,2-Dibromo-3-Chloropropane	5.00	5.00	4.45 J	4.01 J
1,2-Dichlorobenzene	5.00	5.00	5.31	4.74
1,2-Dichloroethane	5.00	5.00	6.02	5.39
1,2-Dichloropropane	5.00	5.00	5.66	5.07
1,3,5-Trimethylbenzene	5.00	5.00	4.97	4.59
1,3-Dichlorobenzene	5.00	5.00	5.17	4.78
1,3-Dichloropropane	5.00	5.00	5.47	4.83
1,4-Dichlorobenzene	5.00	5.00	5.29	4.75
2,2-Dichloropropane	5.00	5.00	5.50	5.02
2-Butanone (MEK)	20.0	20.0	28.5	23.8
2-Chlorotoluene	5.00	5.00	5.02	4.61
2-Hexanone	20.0	20.0	20.2	16.3
4-Chlorotoluene	5.00	5.00	5.05	4.56
4-Isopropyltoluene	5.00	5.00	4.84	4.43
4-Methyl-2-pentanone (MIBK)	20.0	20.0	22.5	18.7
Acetone	20.0	20.0	24.4	19.6
Benzene	5.00	5.00	5.88	5.40
Bromobenzene	5.00	5.00	5.35	4.74
Bromoform	5.00	5.00	4.82	4.27
Bromomethane	5.00	5.00	4.27	3.36
Carbon disulfide	5.00	5.00	3.23	3.33
Carbon tetrachloride	5.00	5.00	5.66	5.14
Chlorobenzene	5.00	5.00	5.21	4.94
Chlorobromomethane	5.00	5.00	5.83	5.11
Chlorodibromomethane	5.00	5.00	5.36	4.66
Chloroethane	5.00	5.00	5.11	4.19
Chloroform	5.00	5.00	5.85	5.31
Chloromethane	5.00	5.00	4.31	3.18

Client: FPM Remediations Inc

Job Number: 280-23566-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-101066

Method: 8260B/DoD
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-101066/4	Units: ug/L		LCSD Lab Sample ID:	LCSD 280-101066/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/21/2011 0938			Analysis Date:	12/21/2011 1042
Prep Date:	12/21/2011 0938			Prep Date:	12/21/2011 1042
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual	
cis-1,2-Dichloroethene	5.00	5.00	5.66	5.11	
cis-1,3-Dichloropropene	5.00	5.00	5.44	4.84	
Dibromomethane	5.00	5.00	5.81	4.94	
Dichlorobromomethane	5.00	5.00	5.67	5.09	
Dichlorodifluoromethane	5.00	5.00	4.68	4.11	
Ethylbenzene	5.00	5.00	5.00	4.71	
Ethylene Dibromide	5.00	5.00	5.28	4.80	
Hexachlorobutadiene	5.00	5.00	4.64	4.30	
Isopropylbenzene	5.00	5.00	5.54	5.22	
Methyl tert-butyl ether	5.00	5.00	5.16	4.66	J
Methylene Chloride	5.00	5.00	6.40	6.20	
m-Xylene & p-Xylene	10.0	10.0	9.80	9.17	
Naphthalene	5.00	5.00	4.66	3.70	
n-Butylbenzene	5.00	5.00	4.99	4.57	
N-Propylbenzene	5.00	5.00	4.99	4.53	
o-Xylene	5.00	5.00	4.88	4.48	
sec-Butylbenzene	5.00	5.00	4.79	4.50	
Styrene	5.00	5.00	4.71	4.30	
tert-Butylbenzene	5.00	5.00	4.92	4.57	
Tetrachloroethene	5.00	5.00	4.95	4.63	
Toluene	5.00	5.00	5.52	5.09	
trans-1,2-Dichloroethene	5.00	5.00	5.93	5.78	
trans-1,3-Dichloropropene	5.00	5.00	5.39	4.71	
Trichloroethene	5.00	5.00	5.57	5.13	
Trichlorofluoromethane	5.00	5.00	4.89	4.22	
Vinyl chloride	5.00	5.00	4.24	3.29	

Client: FPM Remediations Inc

Job Number: 280-23566-1

Method Blank - Batch: 280-99533

Method: 8270D/DoD
Preparation: 3520C

Lab Sample ID:	MB 280-99533/1-A	Analysis Batch:	280-101947	Instrument ID:	MSS_B
Client Matrix:	Water	Prep Batch:	280-99533	Lab File ID:	B8723.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/29/2011 1437	Units:	ug/L	Final Weight/Volume:	1000 uL
Prep Date:	12/10/2011 1210			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,1'-Biphenyl	2.0	U	1.8	10
1,2,4,5-Tetrachlorobenzene	2.0	U	1.7	10
1,2,4-Trichlorobenzene	1.0	U	0.28	10
1,2-Dichlorobenzene	1.0	U	0.23	10
1,2-Diphenylhydrazine	1.0	U	0.23	10
1,3-Dichlorobenzene	1.0	U	0.30	10
1,4-Dichlorobenzene	1.0	U	0.32	10
2,2'-oxybis[1-chloropropane]	1.0	U	0.28	10
2,3,4,6-Tetrachlorophenol	2.0	U	2.0	50
2,4,5-Trichlorophenol	1.0	U	0.45	20
2,4,6-Trichlorophenol	1.0	U	0.29	20
2,4-Dichlorophenol	2.0	U	0.64	10
2,4-Dimethylphenol	4.0	U	0.58	10
2,4-Dinitrophenol	20	U	10	80
2,4-Dinitrotoluene	4.0	U	1.7	20
2,6-Dichlorophenol	4.0	U	1.4	10
2,6-Dinitrotoluene	4.0	U	1.9	20
2-Chloronaphthalene	1.0	U	0.26	10
2-Chlorophenol	4.0	U	2.0	10
2-Methylnaphthalene	1.0	U	0.29	10
2-Methylphenol	4.0	U	0.98	10
2-Nitroaniline	4.0	U	1.7	50
2-Nitrophenol	1.0	U	0.39	20
3 & 4 Methylphenol	1.0	U	0.25	20
3,3'-Dichlorobenzidine	10	U	2.0	50
3-Nitroaniline	2.0	U	2.0	50
4,6-Dinitro-2-methylphenol	10	U	4.0	80
4-Bromophenyl phenyl ether	1.0	U	0.43	10
4-Chloro-3-methylphenol	5.0	U	2.4	20
4-Chloroaniline	5.0	U	2.1	25
4-Chlorophenyl phenyl ether	4.0	U	1.7	10
4-Nitroaniline	4.0	U	2.0	50
4-Nitrophenol	10	U	1.2	50
Acenaphthene	1.0	U	0.28	10
Acenaphthylene	1.0	U	0.49	10
Acetophenone	5.0	U	0.24	10
Anthracene	1.0	U	0.42	10
Atrazine	10	U	0.73	50
Benzaldehyde	2.0	U	2.0	10
Benzidine	100	U	50	200
Benzo[a]anthracene	1.0	U	0.35	10
Benzo[a]pyrene	1.0	U	0.31	10
Benzo[b]fluoranthene	1.0	U	0.53	10
Benzo[g,h,i]perylene	1.0	U	0.50	10
Benzo[k]fluoranthene	1.0	U	0.46	10

Client: FPM Remediations Inc

Job Number: 280-23566-1

Method Blank - Batch: 280-99533

Method: 8270D/DoD
Preparation: 3520C

Lab Sample ID:	MB 280-99533/1-A	Analysis Batch:	280-101947	Instrument ID:	MSS_B
Client Matrix:	Water	Prep Batch:	280-99533	Lab File ID:	B8723.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/29/2011 1437	Units:	ug/L	Final Weight/Volume:	1000 uL
Prep Date:	12/10/2011 1210			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Benzoic acid	50	U	10	80
Benzyl alcohol	1.0	U	0.23	25
Bis(2-chloroethoxy)methane	4.0	U	0.97	10
Bis(2-chloroethyl)ether	1.0	U	0.41	20
Bis(2-ethylhexyl) phthalate	1.0	U	0.56	10
Butyl benzyl phthalate	4.0	U	1.0	20
Caprolactam	10	U	5.0	35
Carbazole	1.0	U	0.43	10
Chrysene	1.0	U	0.54	10
Dibenz(a,h)anthracene	1.0	U	0.51	10
Dibenzofuran	1.0	U	0.29	10
Diethyl phthalate	1.0	U	0.38	20
Dimethyl phthalate	1.0	U	0.21	20
Di-n-butyl phthalate	4.0	U	1.2	20
Di-n-octyl phthalate	1.0	U	0.35	20
Fluoranthene	1.0	U	0.20	20
Fluorene	1.0	U	0.31	10
Hexachlorobenzene	1.0	U	0.66	10
Hexachlorobutadiene	10	U	3.3	30
Hexachlorocyclopentadiene	20	U	1.5	50
Hexachloroethane	4.0	U	2.1	10
Indeno[1,2,3-cd]pyrene	1.0	U	0.65	10
Isophorone	1.0	U	0.21	10
Naphthalene	1.0	U	0.29	10
Nitrobenzene	2.0	U	0.81	20
N-Nitrosodimethylamine	1.0	U	0.29	10
N-Nitrosodi-n-propylamine	1.0	U	0.35	20
N-Nitrosodiphenylamine	1.0	U	0.44	10
N-Nitrosopyrrolidine	4.0	U	0.80	10
Pentachlorophenol	40	U	20	80
Phenanthrene	1.0	U	0.26	10
Phenol	5.0	U	2.0	10
Pyrene	1.0	U	0.37	10

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	86	40 - 125
2-Fluorobiphenyl	75	50 - 110
2-Fluorophenol (Surr)	81	20 - 110
Nitrobenzene-d5 (Surr)	85	40 - 110
Phenol-d5 (Surr)	86	10 - 115
Terphenyl-d14 (Surr)	87	50 - 135

Client: FPM Remediations Inc

Job Number: 280-23566-1

Lab Control Sample - Batch: 280-99533

Method: 8270D/DoD
Preparation: 3520C

Lab Sample ID:	LCS 280-99533/2-A	Analysis Batch:	280-101947	Instrument ID:	MSS_B
Client Matrix:	Water	Prep Batch:	280-99533	Lab File ID:	B8724.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/29/2011 1457	Units:	ug/L	Final Weight/Volume:	1000 uL
Prep Date:	12/10/2011 1210			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2,4-Trichlorobenzene	80.0	64.4	81	35 - 105	
1,2-Dichlorobenzene	80.0	65.0	81	35 - 100	
1,2-Diphenylhydrazine	80.9	74.9	93	55 - 115	
1,3-Dichlorobenzene	80.0	62.6	78	30 - 100	
1,4-Dichlorobenzene	80.0	64.4	81	30 - 100	
2,2'-oxybis[1-chloropropane]	80.0	69.0	86	25 - 130	
2,4,5-Trichlorophenol	80.0	71.9	90	50 - 110	
2,4,6-Trichlorophenol	80.0	75.3	94	50 - 115	
2,4-Dichlorophenol	80.0	71.9	90	50 - 105	
2,4-Dimethylphenol	80.0	63.7	80	30 - 110	
2,4-Dinitrophenol	80.0	71.7	90	15 - 140	J
2,4-Dinitrotoluene	80.0	78.5	98	50 - 120	
2,6-Dinitrotoluene	80.0	73.7	92	50 - 115	
2-Chloronaphthalene	80.0	69.1	86	50 - 105	
2-Chlorophenol	80.0	70.0	88	35 - 105	
2-Methylnaphthalene	80.0	67.8	85	45 - 105	
2-Methylphenol	80.0	68.1	85	40 - 110	
2-Nitroaniline	80.0	77.0	96	50 - 115	
2-Nitrophenol	80.0	75.4	94	40 - 115	
3 & 4 Methylphenol	160	134	84	30 - 110	
3,3'-Dichlorobenzidine	80.0	51.2	64	20 - 110	
3-Nitroaniline	80.0	77.4	97	20 - 125	
4,6-Dinitro-2-methylphenol	80.0	76.8	96	40 - 130	J
4-Bromophenyl phenyl ether	80.0	71.0	89	50 - 115	
4-Chloro-3-methylphenol	80.0	73.7	92	45 - 110	
4-Chloroaniline	80.0	67.8	85	15 - 110	
4-Chlorophenyl phenyl ether	80.0	70.9	89	50 - 110	
4-Nitroaniline	80.0	76.5	96	35 - 120	
4-Nitrophenol	80.0	75.3	94	10 - 125	
Acenaphthene	80.0	69.7	87	45 - 110	
Acenaphthylene	80.0	73.5	92	50 - 105	
Anthracene	80.0	72.8	91	55 - 110	
Benzo[a]anthracene	80.0	73.5	92	55 - 110	
Benzo[a]pyrene	80.0	64.7	81	55 - 110	
Benzo[b]fluoranthene	80.0	66.5	83	45 - 120	
Benzo[g,h,i]perylene	80.0	73.7	92	40 - 125	
Benzo[k]fluoranthene	80.0	74.0	93	45 - 125	
Benzoic acid	80.0	72.5	91	10 - 125	J
Benzyl alcohol	80.0	72.4	90	30 - 110	
Bis(2-chloroethoxy)methane	80.0	69.5	87	45 - 105	
Bis(2-chloroethyl)ether	80.0	69.9	87	35 - 110	
Bis(2-ethylhexyl) phthalate	80.0	80.5	101	40 - 125	
Butyl benzyl phthalate	80.0	76.3	95	45 - 115	
Carbazole	80.0	73.5	92	50 - 115	
Chrysene	80.0	70.7	88	55 - 110	
Dibenz(a,h)anthracene	80.0	73.7	92	40 - 125	

Client: FPM Remediations Inc

Job Number: 280-23566-1

Lab Control Sample - Batch: 280-99533

Method: 8270D/DoD
Preparation: 3520C

Lab Sample ID:	LCS 280-99533/2-A	Analysis Batch:	280-101947	Instrument ID:	MSS_B
Client Matrix:	Water	Prep Batch:	280-99533	Lab File ID:	B8724.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/29/2011 1457	Units:	ug/L	Final Weight/Volume:	1000 uL
Prep Date:	12/10/2011 1210			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dibenzofuran	80.0	71.9	90	55 - 105	
Diethyl phthalate	80.0	73.0	91	40 - 120	
Dimethyl phthalate	80.0	74.0	93	25 - 125	
Di-n-butyl phthalate	80.0	75.9	95	55 - 115	
Di-n-octyl phthalate	80.0	78.5	98	35 - 135	
Fluoranthene	80.0	73.6	92	55 - 115	
Fluorene	80.0	71.7	90	50 - 110	
Hexachlorobenzene	80.0	71.3	89	50 - 110	
Hexachlorobutadiene	80.0	63.9	80	25 - 105	
Hexachlorocyclopentadiene	80.0	41.8	52	10 - 82	J
Hexachloroethane	80.0	61.8	77	30 - 95	
Indeno[1,2,3-cd]pyrene	80.0	71.5	89	45 - 125	
Isophorone	80.0	71.4	89	50 - 110	
Naphthalene	80.0	67.0	84	40 - 100	
Nitrobenzene	80.0	69.6	87	45 - 110	
N-Nitrosodimethylamine	80.0	68.0	85	25 - 110	
N-Nitrosodi-n-propylamine	80.0	70.1	88	35 - 130	
N-Nitrosodiphenylamine	68.3	59.3	87	50 - 110	
Pentachlorophenol	80.0	66.2	83	40 - 115	J
Phenanthrene	80.0	72.1	90	50 - 115	
Phenol	80.0	71.4	89	10 - 115	
Pyrene	80.0	72.2	90	50 - 130	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol (Surr)	93	40 - 125
2-Fluorobiphenyl	78	50 - 110
2-Fluorophenol (Surr)	81	20 - 110
Nitrobenzene-d5 (Surr)	86	40 - 110
Phenol-d5 (Surr)	85	10 - 115
Terphenyl-d14 (Surr)	91	50 - 135

Client: FPM Remediations Inc

Job Number: 280-23566-1

Method Blank - Batch: 280-101476

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-101476/1-A	Analysis Batch:	280-101718	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-101476	Lab File ID:	26b122811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0101	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Aluminum	30	U	18	300
Calcium	80	U	35	1000
Iron	30	U	22	100
Magnesium	25	U	11	500
Potassium	250	U	240	3000
Sodium	99.5	J	92	5000
Boron	7.0	U	4.4	100

Lab Control Sample - Batch: 280-101476

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-101476/2-A	Analysis Batch:	280-101718	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-101476	Lab File ID:	26b122811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0104	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2000	1950	98	80 - 120	
Calcium	50000	49500	99	80 - 120	
Iron	1000	971	97	80 - 120	
Magnesium	50000	49400	99	80 - 120	
Potassium	50000	51200	102	80 - 120	
Sodium	50000	52800	106	80 - 120	
Boron	1000	1040	104	86 - 110	

Client: FPM Remediations Inc

Job Number: 280-23566-1

Post Digestion Spike - Batch: 280-101476

Method: 6010B
Preparation: 3005A
Dissolved

Lab Sample ID:	280-23566-1	Analysis Batch:	280-101718	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-101476	Lab File ID:	26b122811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0115	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	30	U	1000	967	97	75 - 125	
Calcium	89000		20000	106000	88	75 - 125	
Iron	30	U	1000	945	94	75 - 125	
Magnesium	9200		20000	28000	94	75 - 125	
Potassium	3600		20000	23600	100	75 - 125	
Sodium	80000		20000	98700	95	75 - 125	
Boron	26	J	100	128	102	75 - 125	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-101476

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-23566-1	Analysis Batch:	280-101718	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-101476	Lab File ID:	26b122811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0111			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-23566-1	Analysis Batch:	280-101718	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-101476	Lab File ID:	26b122811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0113			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	96	96	80 - 120	1	20		
Calcium	91	99	80 - 120	3	20		
Iron	96	97	80 - 120	1	20		
Magnesium	96	96	80 - 120	0	20		
Potassium	103	104	80 - 120	1	20		
Sodium	98	107	80 - 120	3	20		
Boron	103	104	87 - 113	0	20		

Client: FPM Remediations Inc

Job Number: 280-23566-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-101476

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-23566-1	Units:	ug/L	MSD Lab Sample ID:	280-23566-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/29/2011 0111			Analysis Date:	12/29/2011 0113
Prep Date:	12/28/2011 1400			Prep Date:	12/28/2011 1400
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Aluminum	30	U	2000	2000	1910	1930
Calcium	89000		50000	50000	134000	139000
Iron	30	U	1000	1000	960	974
Magnesium	9200		50000	50000	57100	57300
Potassium	3600		50000	50000	55100	55800
Sodium	80000		50000	50000	129000	133000
Boron	26	J	1000	1000	1060	1060

Serial Dilution - Batch: 280-101476

Method: 6010B
Preparation: 3005A
Dissolved

Lab Sample ID:	280-23566-1	Analysis Batch:	280-101718	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-101476	Lab File ID:	26b122811.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0108	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Aluminum	30	U	150	NC	10	U
Calcium	89000		93200	5.0	10	D
Iron	30	U	150	NC	10	U
Magnesium	9200		9850	7.0	10	D
Potassium	3600		3830	NC	10	J D
Sodium	80000		85400	7.2	10	D
Boron	26	J	32.6	NC	10	J D

Client: FPM Remediations Inc

Job Number: 280-23566-1

Method Blank - Batch: 280-99395

Method: 6010B
Preparation: 3010A

Lab Sample ID:	MB 280-99395/1-A	Analysis Batch:	280-99890	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-99395	Lab File ID:	25A1121311.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2011 1458	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2011 1400				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Aluminum	30	U	18	300
Calcium	80	U	35	1000
Iron	30	U	22	100
Magnesium	25	U	11	500
Potassium	250	U	240	3000
Sodium	250	U	92	5000
Boron	4.0	U	4.4	100

Lab Control Sample - Batch: 280-99395

Method: 6010B
Preparation: 3010A

Lab Sample ID:	LCS 280-99395/2-A	Analysis Batch:	280-99890	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-99395	Lab File ID:	25A1121311.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2011 1501	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2011 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	2000	1970	98	80 - 120	
Calcium	50000	49100	98	80 - 120	
Iron	1000	984	98	80 - 120	
Magnesium	50000	49400	99	80 - 120	
Potassium	50000	50700	101	80 - 120	
Sodium	50000	52700	105	80 - 120	
Boron	1000	990	99	86 - 110	

Client: FPM Remediations Inc

Job Number: 280-23566-1

Method Blank - Batch: 280-101478

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-101478/1-A	Analysis Batch:	280-101714	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-101478	Lab File ID:	229_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0410	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.20	U	0.070	6.0
Arsenic	0.60	U	0.21	5.0
Barium	0.85	U	0.29	3.0
Beryllium	0.24	U	0.080	1.0
Cadmium	0.12	U Q	0.040	1.0
Chromium	1.5	U	0.50	10
Cobalt	0.030	U	0.010	1.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Manganese	0.90	U	0.31	3.5
Molybdenum	0.40	U	0.14	2.0
Nickel	0.90	U	0.30	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.045	U	0.015	5.0
Thallium	0.060	U	0.020	1.0
Vanadium	0.40	U	0.14	6.0
Zinc	6.0	U	2.0	20

Client: FPM Remediations Inc

Job Number: 280-23566-1

Lab Control Sample - Batch: 280-101478

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-101478/2-A	Analysis Batch:	280-101714	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-101478	Lab File ID:	230_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0413	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	37.7	94	85 - 115	
Arsenic	40.0	40.2	100	85 - 117	
Barium	40.0	39.4	98	85 - 118	
Beryllium	40.0	40.1	100	80 - 125	
Cadmium	40.0	39.2	98	85 - 115	Q
Chromium	40.0	40.3	101	84 - 121	
Cobalt	40.0	40.0	100	85 - 120	
Copper	40.0	38.8	97	85 - 119	
Lead	40.0	38.8	97	85 - 118	
Manganese	40.0	39.3	98	85 - 117	
Molybdenum	40.0	39.0	98	85 - 119	
Nickel	40.0	39.2	98	85 - 119	
Selenium	40.0	40.1	100	77 - 122	
Silver	40.0	41.2	103	85 - 115	
Thallium	40.0	39.8	100	85 - 118	
Vanadium	40.0	40.4	101	85 - 120	
Zinc	40.0	40.3	101	83 - 122	

Client: FPM Remediations Inc

Job Number: 280-23566-1

Post Digestion Spike - Batch: 280-101478

Method: 6020
Preparation: 3005A
Dissolved

Lab Sample ID:	280-23566-2	Analysis Batch:	280-101714	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-101478	Lab File ID:	234PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0424	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.20	U	200	184	92	75 - 125	
Arsenic	0.60	U	200	192	96	75 - 125	
Barium	0.85	U	200	193	97	75 - 125	
Beryllium	0.24	U	200	194	97	75 - 125	
Cadmium	0.12	U	200	190	95	75 - 125	Q
Chromium	1.5	U	200	184	92	75 - 125	
Cobalt	0.030	U	200	184	92	75 - 125	
Copper	1.5	U	200	185	92	75 - 125	
Lead	0.50	U	200	186	93	75 - 125	
Manganese	0.90	U	200	184	92	75 - 125	
Molybdenum	0.40	U	200	191	95	75 - 125	
Nickel	0.90	U	200	196	98	75 - 125	
Selenium	2.0	U	200	192	96	75 - 125	
Silver	0.045	U	50.0	49.0	98	75 - 125	
Thallium	0.060	U	200	186	93	75 - 125	
Vanadium	0.40	U	200	184	92	75 - 125	
Zinc	2.3	J	200	190	94	75 - 125	

Client: FPM Remediations Inc

Job Number: 280-23566-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-101478

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-23566-2	Analysis Batch:	280-101714	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-101478	Lab File ID:	235_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0427			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-23566-2	Analysis Batch:	280-101714	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-101478	Lab File ID:	236_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0430			Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	97	95	85 - 115	2	20		
Arsenic	102	102	85 - 117	0	20		
Barium	102	98	85 - 118	4	20		
Beryllium	100	99	80 - 125	1	20		
Cadmium	101	98	85 - 115	3	20	Q	Q
Chromium	103	103	84 - 121	0	20		
Cobalt	103	104	85 - 120	0	20		
Copper	99	99	85 - 119	0	20		
Lead	99	100	85 - 118	1	20		
Manganese	103	102	85 - 117	1	20		
Molybdenum	99	99	85 - 119	0	20		
Nickel	101	101	85 - 119	0	20		
Selenium	104	103	77 - 122	1	20		
Silver	106	103	85 - 115	2	20		
Thallium	103	103	85 - 118	1	20		
Vanadium	104	105	85 - 120	0	20		
Zinc	100	99	83 - 122	0	20		

Client: FPM Remediations Inc

Job Number: 280-23566-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-101478

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-23566-2	Units:	ug/L	MSD Lab Sample ID:	280-23566-2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/29/2011 0427			Analysis Date:	12/29/2011 0430
Prep Date:	12/28/2011 1400			Prep Date:	12/28/2011 1400
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.20	U	40.0	40.0	38.8		38.0	
Arsenic	0.60	U	40.0	40.0	40.9		40.7	
Barium	0.85	U	40.0	40.0	40.7		39.2	
Beryllium	0.24	U	40.0	40.0	39.8		39.5	
Cadmium	0.12	U	40.0	40.0	40.6	Q	39.3	Q
Chromium	1.5	U	40.0	40.0	41.4		41.4	
Cobalt	0.030	U	40.0	40.0	41.4		41.6	
Copper	1.5	U	40.0	40.0	39.8		39.7	
Lead	0.50	U	40.0	40.0	39.7		40.0	
Manganese	0.90	U	40.0	40.0	41.2		40.9	
Molybdenum	0.40	U	40.0	40.0	39.7		39.7	
Nickel	0.90	U	40.0	40.0	40.5		40.5	
Selenium	2.0	U	40.0	40.0	41.6		41.2	
Silver	0.045	U	40.0	40.0	42.3		41.3	
Thallium	0.060	U	40.0	40.0	41.0		41.3	
Vanadium	0.40	U	40.0	40.0	41.7		41.8	
Zinc	2.3	J	40.0	40.0	42.1		42.0	

Client: FPM Remediations Inc

Job Number: 280-23566-1

Serial Dilution - Batch: 280-101478

Method: 6020
Preparation: 3005A
Dissolved

Lab Sample ID:	280-23566-2	Analysis Batch:	280-101714	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-101478	Lab File ID:	233SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0421	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.20	U	1.0	NC	10	U
Arsenic	0.60	U	3.0	NC	10	U
Barium	0.85	U	4.3	NC	10	U
Beryllium	0.24	U	1.2	NC	10	U
Cadmium	0.12	U	0.60	NC	10	U Q
Chromium	1.5	U	7.5	NC	10	U
Cobalt	0.030	U	0.15	NC	10	U
Copper	1.5	U	7.5	NC	10	U
Lead	0.50	U	2.5	NC	10	U
Manganese	0.90	U	4.5	NC	10	U
Molybdenum	0.40	U	2.0	NC	10	U
Nickel	0.90	U	4.5	NC	10	U
Selenium	2.0	U	10	NC	10	U
Silver	0.045	U	0.23	NC	10	U
Thallium	0.060	U	0.30	NC	10	U
Vanadium	0.40	U	2.0	NC	10	U
Zinc	2.3	J	30	NC	10	U

Client: FPM Remediations Inc

Job Number: 280-23566-1

Method Blank - Batch: 280-101490

Method: 6020
Preparation: 3020A

Lab Sample ID:	MB 280-101490/1-A	Analysis Batch:	280-101714	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-101490	Lab File ID:	242_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0447	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.20	U	0.070	6.0
Arsenic	0.60	U	0.21	5.0
Barium	0.85	U	0.29	3.0
Beryllium	0.24	U	0.080	1.0
Cadmium	0.12	U Q	0.040	1.0
Chromium	1.5	U	0.50	10
Cobalt	0.030	U	0.010	1.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Manganese	0.90	U	0.31	3.5
Molybdenum	0.40	U	0.14	2.0
Nickel	0.90	U	0.30	3.0
Selenium	2.0	U	0.70	5.0
Silver	0.045	U	0.015	5.0
Thallium	0.0351	J	0.020	1.0
Vanadium	0.40	U	0.14	6.0
Zinc	6.0	U	2.0	20

Client: FPM Remediations Inc

Job Number: 280-23566-1

Lab Control Sample - Batch: 280-101490

Method: 6020
Preparation: 3020A

Lab Sample ID:	LCS 280-101490/2-A	Analysis Batch:	280-101714	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-101490	Lab File ID:	243_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/29/2011 0450	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/28/2011 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	38.3	96	85 - 115	
Arsenic	40.0	38.9	97	85 - 117	
Barium	40.0	40.5	101	85 - 118	
Beryllium	40.0	39.0	97	80 - 125	
Cadmium	40.0	39.9	100	85 - 115	Q
Chromium	40.0	41.3	103	84 - 121	
Cobalt	40.0	41.3	103	85 - 120	
Copper	40.0	39.2	98	85 - 119	
Lead	40.0	40.4	101	85 - 118	
Manganese	40.0	40.8	102	85 - 117	
Molybdenum	40.0	40.4	101	85 - 119	
Nickel	40.0	40.4	101	85 - 119	
Selenium	40.0	38.9	97	77 - 122	
Silver	40.0	42.6	107	85 - 115	
Thallium	40.0	41.6	104	85 - 118	
Vanadium	40.0	41.9	105	85 - 120	
Zinc	40.0	38.9	97	83 - 122	

Client: FPM Remediations Inc

Job Number: 280-23566-1

Method Blank - Batch: 280-99589

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 280-99589/1-A	Analysis Batch:	280-99898	Instrument ID:	MT_033
Client Matrix:	Water	Prep Batch:	280-99589	Lab File ID:	111212ab.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	12/13/2011 1428	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	12/12/2011 1145				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Mercury	0.080	U	0.027	0.20

Lab Control Sample - Batch: 280-99589

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 280-99589/2-A	Analysis Batch:	280-99898	Instrument ID:	MT_033
Client Matrix:	Water	Prep Batch:	280-99589	Lab File ID:	111212ab.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	12/13/2011 1431	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	12/12/2011 1145				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	4.77	95	80 - 120	

Client: FPM Remediations Inc

Job Number: 280-23566-1

Method Blank - Batch: 280-99940

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 280-99940/1-A	Analysis Batch:	280-100260	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-99940	Lab File ID:	111215TAa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	12/15/2011 1213	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	12/14/2011 1420				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Mercury	0.080	U	0.027	0.20

Lab Control Sample - Batch: 280-99940

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 280-99940/2-A	Analysis Batch:	280-100260	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-99940	Lab File ID:	111215TAa.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	12/15/2011 1221	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	12/14/2011 1420				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	4.83	97	80 - 120	

DATA REPORTING QUALIFIERS

Client: FPM Remediations Inc Job Number: 280-23566-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	U	Undetected at the Limit of Detection.
GC/MS Semi VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	U	Undetected at the Limit of Detection.
Metals		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	Q	One or more quality control criteria failed.
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.

Client: FPM Remediations Inc

Job Number: 280-23566-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-101066					
LCS 280-101066/4	Lab Control Sample	T	Water	8260B/DoD	
LCSD 280-101066/6	Lab Control Sample Duplicate	T	Water	8260B/DoD	
MB 280-101066/5	Method Blank	T	Water	8260B/DoD	
280-23566-1	B3VM0114AA	T	Water	8260B/DoD	
280-23566-2EB	120711AE	T	Water	8260B/DoD	
280-23566-3FB	120711AF	T	Water	8260B/DoD	
280-23566-4TB	120711AR	T	Water	8260B/DoD	

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 280-99533					
LCS 280-99533/2-A	Lab Control Sample	T	Water	3520C	
MB 280-99533/1-A	Method Blank	T	Water	3520C	
280-23566-1	B3VM0114AA	T	Water	3520C	
280-23566-2EB	120711AE	T	Water	3520C	
Analysis Batch:280-101947					
LCS 280-99533/2-A	Lab Control Sample	T	Water	8270D/DoD	280-99533
MB 280-99533/1-A	Method Blank	T	Water	8270D/DoD	280-99533
280-23566-1	B3VM0114AA	T	Water	8270D/DoD	280-99533
280-23566-2EB	120711AE	T	Water	8270D/DoD	280-99533

Report Basis
T = Total

Client: FPM Remediations Inc

Job Number: 280-23566-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-99395					
LCS 280-99395/2-A	Lab Control Sample	T	Water	3010A	
MB 280-99395/1-A	Method Blank	T	Water	3010A	
280-23566-1	B3VM0114AA	T	Water	3010A	
280-23566-2EB	120711AE	T	Water	3010A	
Prep Batch: 280-99589					
LCS 280-99589/2-A	Lab Control Sample	T	Water	7470A	
MB 280-99589/1-A	Method Blank	T	Water	7470A	
280-23566-1	B3VM0114AA	D	Water	7470A	
280-23566-2EB	120711AE	D	Water	7470A	
Analysis Batch:280-99890					
LCS 280-99395/2-A	Lab Control Sample	T	Water	6010B	280-99395
MB 280-99395/1-A	Method Blank	T	Water	6010B	280-99395
280-23566-1	B3VM0114AA	T	Water	6010B	280-99395
280-23566-2EB	120711AE	T	Water	6010B	280-99395
Analysis Batch:280-99898					
LCS 280-99589/2-A	Lab Control Sample	T	Water	7470A	280-99589
MB 280-99589/1-A	Method Blank	T	Water	7470A	280-99589
280-23566-1	B3VM0114AA	D	Water	7470A	280-99589
280-23566-2EB	120711AE	D	Water	7470A	280-99589
Prep Batch: 280-99940					
LCS 280-99940/2-A	Lab Control Sample	T	Water	7470A	
MB 280-99940/1-A	Method Blank	T	Water	7470A	
280-23566-1	B3VM0114AA	T	Water	7470A	
280-23566-2EB	120711AE	T	Water	7470A	
Analysis Batch:280-100260					
LCS 280-99940/2-A	Lab Control Sample	T	Water	7470A	280-99940
MB 280-99940/1-A	Method Blank	T	Water	7470A	280-99940
280-23566-1	B3VM0114AA	T	Water	7470A	280-99940
280-23566-2EB	120711AE	T	Water	7470A	280-99940
Prep Batch: 280-101476					
LCS 280-101476/2-A	Lab Control Sample	R	Water	3005A	
MB 280-101476/1-A	Method Blank	R	Water	3005A	
280-23566-1	B3VM0114AA	D	Water	3005A	
280-23566-1MS	Matrix Spike	D	Water	3005A	
280-23566-1MSD	Matrix Spike Duplicate	D	Water	3005A	
280-23566-2EB	120711AE	D	Water	3005A	

Client: FPM Remediations Inc

Job Number: 280-23566-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-101478					
LCS 280-101478/2-A	Lab Control Sample	R	Water	3005A	
MB 280-101478/1-A	Method Blank	R	Water	3005A	
280-23566-1	B3VM0114AA	D	Water	3005A	
280-23566-2EB	120711AE	D	Water	3005A	
280-23566-2MS	Matrix Spike	D	Water	3005A	
280-23566-2MSD	Matrix Spike Duplicate	D	Water	3005A	
Prep Batch: 280-101490					
LCS 280-101490/2-A	Lab Control Sample	T	Water	3020A	
MB 280-101490/1-A	Method Blank	T	Water	3020A	
280-23566-1	B3VM0114AA	T	Water	3020A	
280-23566-2EB	120711AE	T	Water	3020A	
Analysis Batch:280-101714					
LCS 280-101478/2-A	Lab Control Sample	R	Water	6020	280-101478
MB 280-101478/1-A	Method Blank	R	Water	6020	280-101478
LCS 280-101490/2-A	Lab Control Sample	T	Water	6020	280-101490
MB 280-101490/1-A	Method Blank	T	Water	6020	280-101490
280-23566-1	B3VM0114AA	D	Water	6020	280-101478
280-23566-1	B3VM0114AA	T	Water	6020	280-101490
280-23566-2EB	120711AE	D	Water	6020	280-101478
280-23566-2MS	Matrix Spike	D	Water	6020	280-101478
280-23566-2MSD	Matrix Spike Duplicate	D	Water	6020	280-101478
280-23566-2EB	120711AE	T	Water	6020	280-101490
Analysis Batch:280-101718					
LCS 280-101476/2-A	Lab Control Sample	R	Water	6010B	280-101476
MB 280-101476/1-A	Method Blank	R	Water	6010B	280-101476
280-23566-1	B3VM0114AA	D	Water	6010B	280-101476
280-23566-1MS	Matrix Spike	D	Water	6010B	280-101476
280-23566-1MSD	Matrix Spike Duplicate	D	Water	6010B	280-101476
280-23566-2EB	120711AE	D	Water	6010B	280-101476

Report Basis

D = Dissolved

R = Total Recoverable

T = Total

Client: FPM Remediations Inc

Job Number: 280-23566-1

Laboratory Chronicle

Lab ID: 280-23566-1 **Client ID:** B3VM0114AA

Sample Date/Time: 12/07/2011 11:20 Received Date/Time: 12/08/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23566-E-1		280-101066		12/21/2011 15:49	1	TAL DEN	GPM
A:8260B/DoD	280-23566-E-1		280-101066		12/21/2011 15:49	1	TAL DEN	GPM
P:3520C	280-23566-B-1-A		280-101947	280-99533	12/10/2011 12:10	1	TAL DEN	CRC
A:8270D/DoD	280-23566-B-1-A		280-101947	280-99533	12/29/2011 20:09	1	TAL DEN	DCK
P:3010A	280-23566-C-1-A		280-99890	280-99395	12/12/2011 14:00	1	TAL DEN	JM
A:6010B	280-23566-C-1-A		280-99890	280-99395	12/13/2011 15:16	1	TAL DEN	JKH
P:3005A	280-23566-D-1-B		280-101718	280-101476	12/28/2011 14:00	1	TAL DEN	JM
A:6010B	280-23566-D-1-B		280-101718	280-101476	12/29/2011 01:06	1	TAL DEN	HEB
P:3005A	280-23566-D-1-A		280-101714	280-101478	12/28/2011 14:00	1	TAL DEN	JM
A:6020	280-23566-D-1-A		280-101714	280-101478	12/29/2011 04:15	1	TAL DEN	TEL
P:3020A	280-23566-C-1-J		280-101714	280-101490	12/28/2011 14:00	1	TAL DEN	JM
A:6020	280-23566-C-1-J		280-101714	280-101490	12/29/2011 04:33	1	TAL DEN	TEL
P:7470A	280-23566-C-1-B		280-99898	280-99589	12/12/2011 11:45	1	TAL DEN	BLR
A:7470A	280-23566-C-1-B		280-99898	280-99589	12/13/2011 15:03	1	TAL DEN	BLR
P:7470A	280-23566-C-1-C		280-100260	280-99940	12/14/2011 14:20	1	TAL DEN	BLR
A:7470A	280-23566-C-1-C		280-100260	280-99940	12/15/2011 13:03	1	TAL DEN	BLR

Lab ID: 280-23566-1 MS **Client ID:** B3VM0114AA

Sample Date/Time: 12/07/2011 11:20 Received Date/Time: 12/08/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-23566-D-1-C MS		280-101718	280-101476	12/28/2011 14:00	1	TAL DEN	JM
A:6010B	280-23566-D-1-C MS		280-101718	280-101476	12/29/2011 01:11	1	TAL DEN	HEB

Lab ID: 280-23566-1 MSD **Client ID:** B3VM0114AA

Sample Date/Time: 12/07/2011 11:20 Received Date/Time: 12/08/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-23566-D-1-D MSD		280-101718	280-101476	12/28/2011 14:00	1	TAL DEN	JM
A:6010B	280-23566-D-1-D MSD		280-101718	280-101476	12/29/2011 01:13	1	TAL DEN	HEB

Client: FPM Remediations Inc Job Number: 280-23566-1

Laboratory Chronicle

Lab ID: 280-23566-1 SD **Client ID: B3VM0114AA**

Sample Date/Time: 12/07/2011 11:20 Received Date/Time: 12/08/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-23566-D-1-B SD ^5		280-101718	280-101476	12/28/2011 14:00	5	TAL DEN	JM
A:6010B	280-23566-D-1-B SD ^5		280-101718	280-101476	12/29/2011 01:08	5	TAL DEN	HEB
P:3005A	280-23566-D-1-B PDS		280-101718	280-101476	12/28/2011 14:00	1	TAL DEN	JM
A:6010B	280-23566-D-1-B PDS		280-101718	280-101476	12/29/2011 01:15	1	TAL DEN	HEB

Lab ID: 280-23566-2 **Client ID: 120711AE**

Sample Date/Time: 12/07/2011 15:05 Received Date/Time: 12/08/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23566-E-2		280-101066		12/21/2011 16:11	1	TAL DEN	GPM
A:8260B/DoD	280-23566-E-2		280-101066		12/21/2011 16:11	1	TAL DEN	GPM
P:3520C	280-23566-B-2-A		280-101947	280-99533	12/10/2011 12:10	1	TAL DEN	CRC
A:8270D/DoD	280-23566-B-2-A		280-101947	280-99533	12/29/2011 20:28	1	TAL DEN	DCK
P:3010A	280-23566-C-2-A		280-99890	280-99395	12/12/2011 14:00	1	TAL DEN	JM
A:6010B	280-23566-C-2-A		280-99890	280-99395	12/13/2011 15:19	1	TAL DEN	JKH
P:3005A	280-23566-D-2-D		280-101718	280-101476	12/28/2011 14:00	1	TAL DEN	JM
A:6010B	280-23566-D-2-D		280-101718	280-101476	12/29/2011 01:18	1	TAL DEN	HEB
P:3005A	280-23566-D-2-A		280-101714	280-101478	12/28/2011 14:00	1	TAL DEN	JM
A:6020	280-23566-D-2-A		280-101714	280-101478	12/29/2011 04:18	1	TAL DEN	TEL
P:3020A	280-23566-C-2-F		280-101714	280-101490	12/28/2011 14:00	1	TAL DEN	JM
A:6020	280-23566-C-2-F		280-101714	280-101490	12/29/2011 04:36	1	TAL DEN	TEL
P:7470A	280-23566-C-2-B		280-99898	280-99589	12/12/2011 11:45	1	TAL DEN	BLR
A:7470A	280-23566-C-2-B		280-99898	280-99589	12/13/2011 15:06	1	TAL DEN	BLR
P:7470A	280-23566-C-2-C		280-100260	280-99940	12/14/2011 14:20	1	TAL DEN	BLR
A:7470A	280-23566-C-2-C		280-100260	280-99940	12/15/2011 13:06	1	TAL DEN	BLR

Lab ID: 280-23566-2 MS **Client ID: 120711AE**

Sample Date/Time: 12/07/2011 15:05 Received Date/Time: 12/08/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-23566-D-2-B MS		280-101714	280-101478	12/28/2011 14:00	1	TAL DEN	JM
A:6020	280-23566-D-2-B MS		280-101714	280-101478	12/29/2011 04:27	1	TAL DEN	TEL

Client: FPM Remediations Inc

Job Number: 280-23566-1

Laboratory Chronicle

Lab ID: 280-23566-2 MSD **Client ID:** 120711AE

Sample Date/Time: 12/07/2011 15:05 Received Date/Time: 12/08/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-23566-D-2-C MSD		280-101714	280-101478	12/28/2011 14:00	1	TAL DEN	JM
A:6020	280-23566-D-2-C MSD		280-101714	280-101478	12/29/2011 04:30	1	TAL DEN	TEL

Lab ID: 280-23566-2 SD **Client ID:** 120711AE

Sample Date/Time: 12/07/2011 15:05 Received Date/Time: 12/08/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-23566-D-2-A SD ^5		280-101714	280-101478	12/28/2011 14:00	5	TAL DEN	JM
A:6020	280-23566-D-2-A SD ^5		280-101714	280-101478	12/29/2011 04:21	5	TAL DEN	TEL
P:3005A	280-23566-D-2-A PDS		280-101714	280-101478	12/28/2011 14:00	1	TAL DEN	JM
A:6020	280-23566-D-2-A PDS		280-101714	280-101478	12/29/2011 04:24	1	TAL DEN	TEL

Lab ID: 280-23566-3 **Client ID:** 120711AF

Sample Date/Time: 12/07/2011 11:40 Received Date/Time: 12/08/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23566-B-3		280-101066		12/21/2011 16:33	1	TAL DEN	GPM
A:8260B/DoD	280-23566-B-3		280-101066		12/21/2011 16:33	1	TAL DEN	GPM

Lab ID: 280-23566-4 **Client ID:** 120711AR

Sample Date/Time: 12/07/2011 09:30 Received Date/Time: 12/08/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23566-B-4		280-101066		12/21/2011 16:55	1	TAL DEN	GPM
A:8260B/DoD	280-23566-B-4		280-101066		12/21/2011 16:55	1	TAL DEN	GPM

Client: FPM Remediations Inc

Job Number: 280-23566-1

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-101066/5		280-101066		12/21/2011 10:21	1	TAL DEN	GPM
A:8260B/DoD	MB 280-101066/5		280-101066		12/21/2011 10:21	1	TAL DEN	GPM
P:3520C	MB 280-99533/1-A		280-101947	280-99533	12/10/2011 12:10	1	TAL DEN	CRC
A:8270D/DoD	MB 280-99533/1-A		280-101947	280-99533	12/29/2011 14:37	1	TAL DEN	DCK
P:3010A	MB 280-99395/1-A		280-99890	280-99395	12/12/2011 14:00	1	TAL DEN	JM
A:6010B	MB 280-99395/1-A		280-99890	280-99395	12/13/2011 14:58	1	TAL DEN	JKH
P:3005A	MB 280-101476/1-A		280-101718	280-101476	12/28/2011 14:00	1	TAL DEN	JM
A:6010B	MB 280-101476/1-A		280-101718	280-101476	12/29/2011 01:01	1	TAL DEN	HEB
P:3005A	MB 280-101478/1-A		280-101714	280-101478	12/28/2011 14:00	1	TAL DEN	JM
A:6020	MB 280-101478/1-A		280-101714	280-101478	12/29/2011 04:10	1	TAL DEN	TEL
P:3020A	MB 280-101490/1-A		280-101714	280-101490	12/28/2011 14:00	1	TAL DEN	JM
A:6020	MB 280-101490/1-A		280-101714	280-101490	12/29/2011 04:47	1	TAL DEN	TEL
P:7470A	MB 280-99589/1-A		280-99898	280-99589	12/12/2011 11:45	1	TAL DEN	BLR
A:7470A	MB 280-99589/1-A		280-99898	280-99589	12/13/2011 14:28	1	TAL DEN	BLR
P:7470A	MB 280-99940/1-A		280-100260	280-99940	12/14/2011 14:20	1	TAL DEN	BLR
A:7470A	MB 280-99940/1-A		280-100260	280-99940	12/15/2011 12:13	1	TAL DEN	BLR

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-101066/4		280-101066		12/21/2011 09:38	1	TAL DEN	GPM
A:8260B/DoD	LCS 280-101066/4		280-101066		12/21/2011 09:38	1	TAL DEN	GPM
P:3520C	LCS 280-99533/2-A		280-101947	280-99533	12/10/2011 12:10	1	TAL DEN	CRC
A:8270D/DoD	LCS 280-99533/2-A		280-101947	280-99533	12/29/2011 14:57	1	TAL DEN	DCK
P:3010A	LCS 280-99395/2-A		280-99890	280-99395	12/12/2011 14:00	1	TAL DEN	JM
A:6010B	LCS 280-99395/2-A		280-99890	280-99395	12/13/2011 15:01	1	TAL DEN	JKH
P:3005A	LCS 280-101476/2-A		280-101718	280-101476	12/28/2011 14:00	1	TAL DEN	JM
A:6010B	LCS 280-101476/2-A		280-101718	280-101476	12/29/2011 01:04	1	TAL DEN	HEB
P:3005A	LCS 280-101478/2-A		280-101714	280-101478	12/28/2011 14:00	1	TAL DEN	JM
A:6020	LCS 280-101478/2-A		280-101714	280-101478	12/29/2011 04:13	1	TAL DEN	TEL
P:3020A	LCS 280-101490/2-A		280-101714	280-101490	12/28/2011 14:00	1	TAL DEN	JM
A:6020	LCS 280-101490/2-A		280-101714	280-101490	12/29/2011 04:50	1	TAL DEN	TEL
P:7470A	LCS 280-99589/2-A		280-99898	280-99589	12/12/2011 11:45	1	TAL DEN	BLR
A:7470A	LCS 280-99589/2-A		280-99898	280-99589	12/13/2011 14:31	1	TAL DEN	BLR
P:7470A	LCS 280-99940/2-A		280-100260	280-99940	12/14/2011 14:20	1	TAL DEN	BLR
A:7470A	LCS 280-99940/2-A		280-100260	280-99940	12/15/2011 12:21	1	TAL DEN	BLR

Client: FPM Remediations Inc

Job Number: 280-23566-1

Laboratory Chronicle

Lab ID: **LCSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 280-101066/6		280-101066		12/21/2011 10:42	1	TAL DEN	GPM
A:8260B/DoD	LCSD 280-101066/6		280-101066		12/21/2011 10:42	1	TAL DEN	GPM

Lab References:
TAL DEN = TestAmerica Denver

Certification Summary

Client: FPM Remediations Inc
Project/Site: Griffiss AFB Building 3

TestAmerica Job ID: 280-23566-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B DOD

Volatile Organic Compounds (GC/MS) by Method 8260B/DOD

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
B3VM0114AA	280-23566-1	106	106	99	99
120711AE	280-23566-2	103	104	98	96
120711AF	280-23566-3	102	102	97	94
120711AR	280-23566-4	101	99	95	99
	MB 280-101066/5	107	112	97	98
	LCS 280-101066/4	102	106	90	93
	LCSD 280-101066/6	101	103	92	91

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	85-115
DCA = 1,2-Dichloroethane-d4 (Surr)	70-120
TOL = Toluene-d8 (Surr)	85-120
BFB = 4-Bromofluorobenzene (Surr)	75-120

Column to be used to flag recovery values

FORM II 8260B/DoD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Q2985.D

Lab ID: LCS 280-101066/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.17	103	80-130	
1,1,1-Trichloroethane	5.00	5.53	111	65-130	
1,1,2,2-Tetrachloroethane	5.00	5.81	116	65-130	
1,1,2-Trichloroethane	5.00	5.92	118	75-125	
1,1-Dichloroethane	5.00	5.81	116	70-135	
1,1-Dichloroethene	5.00	6.34	127	70-130	
1,1-Dichloropropene	5.00	5.53	111	75-130	
1,2,3-Trichlorobenzene	5.00	4.41	88	55-140	
1,2,3-Trichloropropane	5.00	5.41	108	75-125	
1,2,4-Trichlorobenzene	5.00	4.50	90	65-135	
1,2,4-Trimethylbenzene	5.00	4.92	98	75-130	
1,2-Dibromo-3-Chloropropane	5.00	4.45 J	89	50-130	
1,2-Dichlorobenzene	5.00	5.31	106	70-120	
1,2-Dichloroethane	5.00	6.02	120	70-130	
1,2-Dichloropropane	5.00	5.66	113	75-125	
1,3,5-Trimethylbenzene	5.00	4.97	99	75-130	
1,3-Dichlorobenzene	5.00	5.17	103	75-125	
1,3-Dichloropropane	5.00	5.47	109	75-125	
1,4-Dichlorobenzene	5.00	5.29	106	75-125	
2,2-Dichloropropane	5.00	5.50	110	70-135	
2-Butanone (MEK)	20.0	28.5	143	30-150	
2-Chlorotoluene	5.00	5.02	100	75-125	
2-Hexanone	20.0	20.2	101	55-130	
4-Chlorotoluene	5.00	5.05	101	75-130	
4-Isopropyltoluene	5.00	4.84	97	75-130	
4-Methyl-2-pentanone (MIBK)	20.0	22.5	113	60-135	
Acetone	20.0	24.4	122	40-140	
Benzene	5.00	5.88	118	80-120	
Bromobenzene	5.00	5.35	107	75-125	
Bromoform	5.00	4.82	96	70-130	
Bromomethane	5.00	4.27	85	30-145	
Carbon disulfide	5.00	3.23	65	35-160	
Carbon tetrachloride	5.00	5.66	113	65-140	
Chlorobenzene	5.00	5.21	104	80-120	
Chlorobromomethane	5.00	5.83	117	65-130	
Chlorodibromomethane	5.00	5.36	107	60-135	
Chloroethane	5.00	5.11	102	60-135	
Chloroform	5.00	5.85	117	65-135	
Chloromethane	5.00	4.31	86	40-125	
cis-1,2-Dichloroethene	5.00	5.66	113	70-125	
cis-1,3-Dichloropropene	5.00	5.44	109	70-130	
Dibromomethane	5.00	5.81	116	75-125	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Q2985.D

Lab ID: LCS 280-101066/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorobromomethane	5.00	5.67	113	75-120	
Dichlorodifluoromethane	5.00	4.68	94	30-155	
Ethylbenzene	5.00	5.00	100	75-125	
Ethylene Dibromide	5.00	5.28	106	80-120	
Hexachlorobutadiene	5.00	4.64	93	50-140	
Isopropylbenzene	5.00	5.54	111	75-125	
Methyl tert-butyl ether	5.00	5.16	103	65-125	
Methylene Chloride	5.00	6.40	128	55-140	
m-Xylene & p-Xylene	10.0	9.80	98	75-130	
Naphthalene	5.00	4.66	93	55-140	
n-Butylbenzene	5.00	4.99	100	70-135	
N-Propylbenzene	5.00	4.99	100	70-130	
o-Xylene	5.00	4.88	98	80-120	
sec-Butylbenzene	5.00	4.79	96	70-125	
Styrene	5.00	4.71	94	65-135	
tert-Butylbenzene	5.00	4.92	98	70-130	
Tetrachloroethene	5.00	4.95	99	45-150	
Toluene	5.00	5.52	110	75-120	
trans-1,2-Dichloroethene	5.00	5.93	119	60-140	
trans-1,3-Dichloropropene	5.00	5.39	108	55-140	
Trichloroethene	5.00	5.57	111	70-125	
Trichlorofluoromethane	5.00	4.89	98	60-145	
Vinyl chloride	5.00	4.24	85	50-145	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Q2988.D

Lab ID: LCSD 280-101066/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.69	94	10	30	80-130	
1,1,1-Trichloroethane	5.00	5.01	100	10	30	65-130	
1,1,2,2-Tetrachloroethane	5.00	5.04	101	14	30	65-130	
1,1,2-Trichloroethane	5.00	5.13	103	14	30	75-125	
1,1-Dichloroethane	5.00	5.61	112	4	30	70-135	
1,1-Dichloroethene	5.00	6.32	126	0	30	70-130	
1,1-Dichloropropene	5.00	5.14	103	7	30	75-130	
1,2,3-Trichlorobenzene	5.00	3.99	80	10	30	55-140	
1,2,3-Trichloropropane	5.00	4.77	95	13	30	75-125	
1,2,4-Trichlorobenzene	5.00	3.99	80	12	30	65-135	
1,2,4-Trimethylbenzene	5.00	4.55	91	8	30	75-130	
1,2-Dibromo-3-Chloropropane	5.00	4.01 J	80	10	30	50-130	
1,2-Dichlorobenzene	5.00	4.74	95	11	30	70-120	
1,2-Dichloroethane	5.00	5.39	108	11	30	70-130	
1,2-Dichloropropane	5.00	5.07	101	11	30	75-125	
1,3,5-Trimethylbenzene	5.00	4.59	92	8	30	75-130	
1,3-Dichlorobenzene	5.00	4.78	96	8	30	75-125	
1,3-Dichloropropane	5.00	4.83	97	12	30	75-125	
1,4-Dichlorobenzene	5.00	4.75	95	11	30	75-125	
2,2-Dichloropropane	5.00	5.02	100	9	30	70-135	
2-Butanone (MEK)	20.0	23.8	119	18	30	30-150	
2-Chlorotoluene	5.00	4.61	92	9	30	75-125	
2-Hexanone	20.0	16.3	82	21	30	55-130	
4-Chlorotoluene	5.00	4.56	91	10	30	75-130	
4-Isopropyltoluene	5.00	4.43	89	9	30	75-130	
4-Methyl-2-pentanone (MIBK)	20.0	18.7	93	19	30	60-135	
Acetone	20.0	19.6	98	22	30	40-140	
Benzene	5.00	5.40	108	8	30	80-120	
Bromobenzene	5.00	4.74	95	12	30	75-125	
Bromoform	5.00	4.27	85	12	30	70-130	
Bromomethane	5.00	3.36	67	24	30	30-145	
Carbon disulfide	5.00	3.33	67	3	30	35-160	
Carbon tetrachloride	5.00	5.14	103	10	30	65-140	
Chlorobenzene	5.00	4.94	99	5	30	80-120	
Chlorobromomethane	5.00	5.11	102	13	30	65-130	
Chlorodibromomethane	5.00	4.66	93	14	30	60-135	
Chloroethane	5.00	4.19	84	20	30	60-135	
Chloroform	5.00	5.31	106	10	30	65-135	
Chloromethane	5.00	3.18	64	30	30	40-125	
cis-1,2-Dichloroethene	5.00	5.11	102	10	30	70-125	
cis-1,3-Dichloropropene	5.00	4.84	97	12	30	70-130	
Dibromomethane	5.00	4.94	99	16	30	75-125	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Q2988.D

Lab ID: LCSD 280-101066/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Dichlorobromomethane	5.00	5.09	102	11	30	75-120	
Dichlorodifluoromethane	5.00	4.11	82	13	30	30-155	
Ethylbenzene	5.00	4.71	94	6	30	75-125	
Ethylene Dibromide	5.00	4.80	96	9	30	80-120	
Hexachlorobutadiene	5.00	4.30	86	8	30	50-140	
Isopropylbenzene	5.00	5.22	104	6	30	75-125	
Methyl tert-butyl ether	5.00	4.66 J	93	10	30	65-125	
Methylene Chloride	5.00	6.20	124	3	30	55-140	
m-Xylene & p-Xylene	10.0	9.17	92	7	30	75-130	
Naphthalene	5.00	3.70	74	23	30	55-140	
n-Butylbenzene	5.00	4.57	91	9	30	70-135	
N-Propylbenzene	5.00	4.53	91	10	30	70-130	
o-Xylene	5.00	4.48	90	9	30	80-120	
sec-Butylbenzene	5.00	4.50	90	6	30	70-125	
Styrene	5.00	4.30	86	9	30	65-135	
tert-Butylbenzene	5.00	4.57	91	7	30	70-130	
Tetrachloroethene	5.00	4.63	93	7	30	45-150	
Toluene	5.00	5.09	102	8	30	75-120	
trans-1,2-Dichloroethene	5.00	5.78	116	2	30	60-140	
trans-1,3-Dichloropropene	5.00	4.71	94	13	30	55-140	
Trichloroethene	5.00	5.13	103	8	30	70-125	
Trichlorofluoromethane	5.00	4.22	84	15	30	60-145	
Vinyl chloride	5.00	3.29	66	25	30	50-145	

Column to be used to flag recovery and RPD values

FORM III 8260B/DoD

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab File ID: Q2987.D Lab Sample ID: MB 280-101066/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: MSV_Q Date Analyzed: 12/21/2011 10:21

GC Column: DB-624 (60.25) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-101066/4	Q2985.D	12/21/2011 09:38
	LCSD 280-101066/6	Q2988.D	12/21/2011 10:42
B3VM0114AA	280-23566-1	Q3002.D	12/21/2011 15:49
120711AE	280-23566-2	Q3003.D	12/21/2011 16:11
120711AF	280-23566-3	Q3004.D	12/21/2011 16:33
120711AR	280-23566-4	Q3005.D	12/21/2011 16:55

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab File ID: Q2749.D BFB Injection Date: 12/16/2011

Instrument ID: MSV_Q BFB Injection Time: 09:05

Analysis Batch No.: 100335

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.4	
75	30.0 - 60.0 % of mass 95	48.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	74.3	
175	5.0 - 9.0 % of mass 174	4.9	(6.6)1
176	95.0 - 101.0 % of mass 174	71.7	(96.5)1
177	5.0 - 9.0 % of mass 176	4.8	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-100335/2	Q2750.D	12/16/2011	09:16
	IC 280-100335/3	Q2751.D	12/16/2011	09:38
	IC 280-100335/4	Q2752.D	12/16/2011	10:00
	IC 280-100335/5	Q2753.D	12/16/2011	10:22
	IC 280-100335/6	Q2754.D	12/16/2011	10:44
	IC 280-100335/7	Q2755.D	12/16/2011	11:06
	IC 280-100335/8	Q2756.D	12/16/2011	11:28
	ICV 280-100335/9	Q2757.D	12/16/2011	11:50
	ICV 280-100335/10	Q2758.D	12/16/2011	12:12
	ICV 280-100335/11	Q2759.D	12/16/2011	12:34
	IC 280-100335/12	Q2760.D	12/16/2011	12:56
	IC 280-100335/13	Q2761.D	12/16/2011	13:18
	IC 280-100335/14	Q2762.D	12/16/2011	13:40
	ICIS 280-100335/15	Q2763.D	12/16/2011	14:02
	IC 280-100335/16	Q2764.D	12/16/2011	14:24
	IC 280-100335/17	Q2765.D	12/16/2011	14:46
	ICV 280-100335/18	Q2766.D	12/16/2011	15:08
	ICV 280-100335/19	Q2770.D	12/16/2011	16:36

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab File ID: Q2980.D BFB Injection Date: 12/21/2011

Instrument ID: MSV_Q BFB Injection Time: 08:00

Analysis Batch No.: 101066

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	
75	30.0 - 60.0 % of mass 95	44.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	70.2	
175	5.0 - 9.0 % of mass 174	5.1	(7.2)1
176	95.0 - 101.0 % of mass 174	68.0	(96.8)1
177	5.0 - 9.0 % of mass 176	5.3	(7.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-101066/2	Q2982.D	12/21/2011	08:32
	CCV 280-101066/3	Q2983.D	12/21/2011	08:54
	LCS 280-101066/4	Q2985.D	12/21/2011	09:38
	MB 280-101066/5	Q2987.D	12/21/2011	10:21
	LCSD 280-101066/6	Q2988.D	12/21/2011	10:42
B3VM0114AA	280-23566-1	Q3002.D	12/21/2011	15:49
120711AE	280-23566-2	Q3003.D	12/21/2011	16:11
120711AF	280-23566-3	Q3004.D	12/21/2011	16:33
120711AR	280-23566-4	Q3005.D	12/21/2011	16:55

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Sample No.: ICIS 280-100335/15 Date Analyzed: 12/16/2011 14:02

Instrument ID: MSV_Q GC Column: DB-624 (60.25) ID: 0.25(mm)

Lab File ID (Standard): Q2763.D Heated Purge: (Y/N) N

Calibration ID: 8092

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1425241	9.23	278070	11.75	343583	13.93
UPPER LIMIT		2850482	9.73	556140	12.25	687166	14.43
LOWER LIMIT		712621	8.73	139035	11.25	171792	13.43
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-100335/9		1579116	9.23	315930	11.75	383170	13.93
ICV 280-100335/10		1600373	9.22	322069	11.74	405816	13.92
ICV 280-100335/11		1551864	9.23	305251	11.74	374587	13.92
ICV 280-100335/18		1488736	9.23	288756	11.75	343529	13.93
ICV 280-100335/19		1357344	9.23	271877	11.74	329612	13.92
CCV 280-101066/2		1143340	9.22	231255	11.74	266009	13.92
CCV 280-101066/3		1159737	9.22	249897	11.74	324551	13.92
LCS 280-101066/4		1158148	9.22	250746	11.74	315046	13.92
MB 280-101066/5		1087509	9.23	229684	11.74	269762	13.92
LCSD 280-101066/6		1181270	9.22	247757	11.74	313708	13.92
280-23566-1	B3VM0114AA	1062563	9.22	220152	11.74	249147	13.92
280-23566-2	120711AE	1086438	9.22	221164	11.74	256822	13.92
280-23566-3	120711AF	1102279	9.23	224162	11.74	264815	13.92
280-23566-4	120711AR	1157432	9.23	248714	11.74	274883	13.92

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B/DOD

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: B3VM0114AA | Lab Sample ID: 280-23566-1

Matrix: Water | Lab File ID: Q3002.D

Analysis Method: 8260B/DoD | Date Collected: 12/07/2011 11:20

Sample wt/vol: 20(mL) | Date Analyzed: 12/21/2011 15:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 101066 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.20	0.17
71-55-6	1,1,1-Trichloroethane	0.33	J	1.0	0.20	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-triflu oroethane	3.0	U	3.0	3.0	0.79
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.40	0.32
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.20	0.16
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.20	0.14
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.40	0.18
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.20	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.20	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20	0.13
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.20	0.13
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.80	0.14
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.20	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.20	0.15
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
123-91-1	1,4-Dioxane	80	U	220	80	71
544-10-5	1-Chlorohexane	0.20	U	1.0	0.20	0.17
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	3.2	U	6.0	3.2	1.8
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40	0.17
591-78-6	2-Hexanone	3.2	U	5.0	3.2	1.4
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.40	0.17
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.40	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	1.0
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.20	U	1.0	0.20	0.16
108-86-1	Bromobenzene	0.20	U	1.0	0.20	0.17
75-25-2	Bromoform	0.40	U	1.0	0.40	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.40	0.21
75-15-0	Carbon disulfide	0.80	U	2.0	0.80	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: B3VM0114AA | Lab Sample ID: 280-23566-1

Matrix: Water | Lab File ID: Q3002.D

Analysis Method: 8260B/DoD | Date Collected: 12/07/2011 11:20

Sample wt/vol: 20(mL) | Date Analyzed: 12/21/2011 15:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 101066 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.20	U	1.0	0.20	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.20	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.21	J	1.0	0.20	0.16
74-87-3	Chloromethane	1.6	U	2.0	1.6	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.20	0.16
110-82-7	Cyclohexane	0.40	U	2.0	0.40	0.28
74-95-3	Dibromomethane	0.40	U	1.0	0.40	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.20	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.20	0.16
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.20	0.18
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.40	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
79-20-9	Methyl acetate	2.0	U	5.0	2.0	1.6
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.40	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.36
75-09-2	Methylene Chloride	0.52	J	5.0	0.40	0.32
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.80	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.40	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.20	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.40	0.19
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.40	0.17
100-42-5	Styrene	0.40	U	1.0	0.40	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.40	0.16
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.80	J	1.0	0.20	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.80	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Client Sample ID: B3VM0114AA Lab Sample ID: 280-23566-1

Matrix: Water Lab File ID: Q3002.D

Analysis Method: 8260B/DoD Date Collected: 12/07/2011 11:20

Sample wt/vol: 20(mL) Date Analyzed: 12/21/2011 15:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 101066 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-120
460-00-4	4-Bromofluorobenzene (Surr)	99		75-120
1868-53-7	Dibromofluoromethane (Surr)	106		85-115
2037-26-5	Toluene-d8 (Surr)	99		85-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\Q3002.D
Lab Smp Id: 280-23566-E-1 Client Smp ID: B3VM0114AA
Inj Date : 21-DEC-2011 15:49
Operator : MEIERG Inst ID: Q.i
Smp Info : 280-23566-e-1,,PH<2
Misc Info : 280-23566-E-1
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\8260B-H2O.m
Meth Date : 20-Dec-2011 09:39 meierg Quant Type: ISTD
Cal Date : 16-DEC-2011 13:18 Cal File: Q2761.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DOD.sub
Target Version: 4.14
Processing Host: DENPC367

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 60	Fluorobenzene	96	9.223	9.226	(1.000)	1062563	12.5000	
* 95	Chlorobenzene-d5	119	11.740	11.743	(1.000)	220152	12.5000	
* 121	1,4-Dichlorobenzene-d4	152	13.921	13.924	(1.000)	249147	12.5000	
$ 50	Dibromofluoromethane (Surr)	111	8.630	8.632	(0.936)	249880	10.5672	10.5672
$ 56	1,2-Dichloroethane-d4	65	8.952	8.961	(0.971)	194493	10.6286	10.6286
$ 82	Toluene-d8	98	10.496	10.499	(0.894)	1159049	9.90584	9.90584
$ 107	4-Bromofluorobenzene (Surr)	95	12.755	12.758	(0.916)	293146	9.89494	9.89494
M 1	1,2-Dichloroethene (total)	96	Compound Not Detected.					
M 2	Xylene (total)	106	Compound Not Detected.					
M 3	1,3-Dichloropropene (total)	75	Compound Not Detected.					
M 4	Trihalomethanes (total)	83				8832	0.20973	0.209729(a)
5	dichlorodifluoromethane	85	Compound Not Detected.					
6	1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
7	Chloromethane	50	Compound Not Detected.					
8	Vinyl Chloride	62	Compound Not Detected.					
9	Ethylene Oxide	43	Compound Not Detected.					
10	Bromomethane	94	Compound Not Detected.					
11	Chloroethane	64	Compound Not Detected.					
12	Dichlorofluoromethane	67	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
14	Ethanol	45	Compound Not Detected.					
15	1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
16 Ethyl Ether	59	Compound Not Detected.					
17 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.					
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 1,1-Dichloroethene	96	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
27 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	7.200	7.196	(0.781)	11815	0.51701	0.517008(a)
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
42 sec-Butyl Alcohol	45	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Propionitrile	54	Compound Not Detected.					
46 Methacrylonitrile	41	Compound Not Detected.					
47 Bromochloromethane	128	Compound Not Detected.					
48 Chloroform	83	8.487	8.490	(0.920)	8832	0.20973	0.209729(a)
49 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	8.730	8.740	(0.947)	15595	0.32997	0.329969(a)
52 Isobutanol	41	Compound Not Detected.					
53 Cyclohexane	56	Compound Not Detected.					
54 1,1-Dichloropropene	75	Compound Not Detected.					
55 Carbon Tetrachloride	117	Compound Not Detected.					
57 TAME	73	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
59 Benzene	78	Compound Not Detected.					
61 n-Butanol	56	Compound Not Detected.					
64 Trichloroethene	95	9.524	9.527	(1.033)	23801	0.79678	0.796776(a)
65 2-Pentanone	43	Compound Not Detected.					
66 Methyl Methacrylate	100	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
69 1,2-Dichloropropane	63	Compound Not Detected.					
70 1,4-Dioxane	88	Compound Not Detected.					
71 Dibromomethane	93	Compound Not Detected.					
72 Bromodichloromethane	83	Compound Not Detected.					
74 2-nitropropane	41	Compound Not Detected.					
75 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
79 cis-1,3-Dichloropropene	75	Compound Not Detected.					
80 4-Methyl-2-pentanone	43	Compound Not Detected.					

						CONCENTRATIONS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
83 Toluene	91	Compound Not Detected.					
85 Ethyl methacrylate	69	Compound Not Detected.					
86 trans-1,3-Dichloropropene	75	Compound Not Detected.					
87 1,1,2-Trichloroethane	97	Compound Not Detected.					
88 2-Hexanone	43	Compound Not Detected.					
89 1,3-Dichloropropane	76	Compound Not Detected.					
90 Tetrachloroethene	164	Compound Not Detected.					
91 Dibromochloromethane	129	Compound Not Detected.					
92 Tetrahydrothiophene	60	Compound Not Detected.					
93 1,2-Dibromoethane	107	Compound Not Detected.					
94 1-Chlorohexane	91	Compound Not Detected.					
96 Chlorobenzene	112	Compound Not Detected.					
97 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
98 Ethylbenzene	106	Compound Not Detected.					
99 m and p-Xylene	106	Compound Not Detected.					
101 o-Xylene	106	Compound Not Detected.					
102 Styrene	104	Compound Not Detected.					
103 Bromoform	173	Compound Not Detected.					
104 isopropyl benzene	105	Compound Not Detected.					
105 cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
106 Cyclohexanone	55	Compound Not Detected.					
108 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
109 t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
110 1,2,3-Trichloropropane	110	Compound Not Detected.					
111 Bromobenzene	156	Compound Not Detected.					
112 n-Propylbenzene	120	Compound Not Detected.					
113 2-Chlorotoluene	126	Compound Not Detected.					
114 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
115 4-Chlorotoluene	126	Compound Not Detected.					
116 tert-Butylbenzene	119	Compound Not Detected.					
117 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
118 sec-Butylbenzene	134	Compound Not Detected.					
119 4-Isopropyltoluene	119	Compound Not Detected.					
120 1,3-Dichlorobenzene	146	Compound Not Detected.					
122 1,4-dichlorobenzene	146	Compound Not Detected.					
123 1,2,3-Trimethylbenzene	105	Compound Not Detected.					
124 n-Butylbenzene	91	Compound Not Detected.					
125 1,2-Dichlorobenzene	146	Compound Not Detected.					
126 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
127 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
128 Hexachlorobutadiene	225	Compound Not Detected.					
129 Naphthalene	128	Compound Not Detected.					
130 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

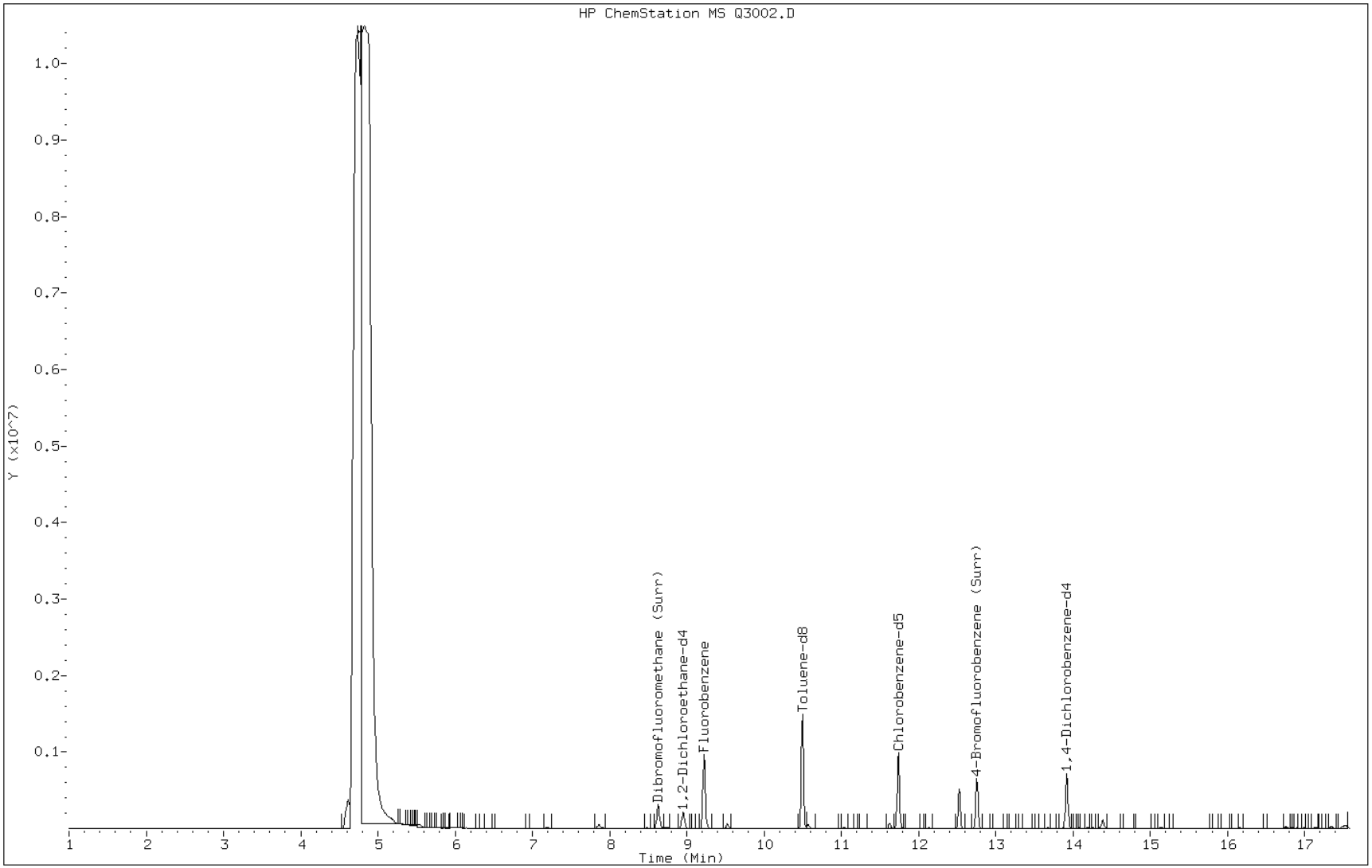
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: Q3002.D

Date: 21-DEC-2011 15:49

Client ID: B3VM0114AA Instrument: Q.i

Sample Info: 280-23566-e-1,,PH<2 Operator: MEIERG



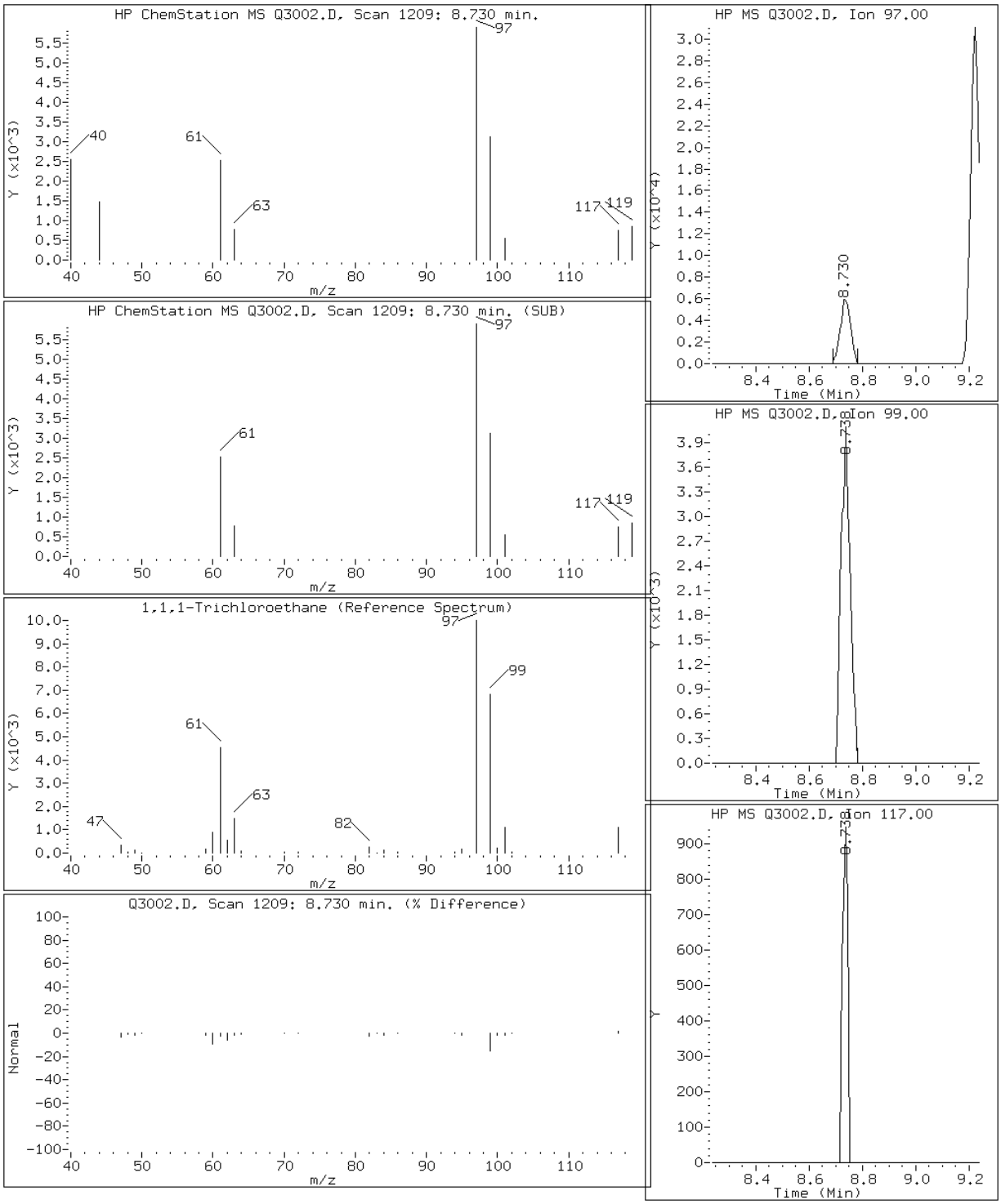
Data File: Q3002.D

Date: 21-DEC-2011 15:49

Client ID: B3VM0114AA Instrument: Q.i

Sample Info: 280-23566-e-1,,PH<2 Operator: MEIERG

51 1,1,1-Trichloroethane



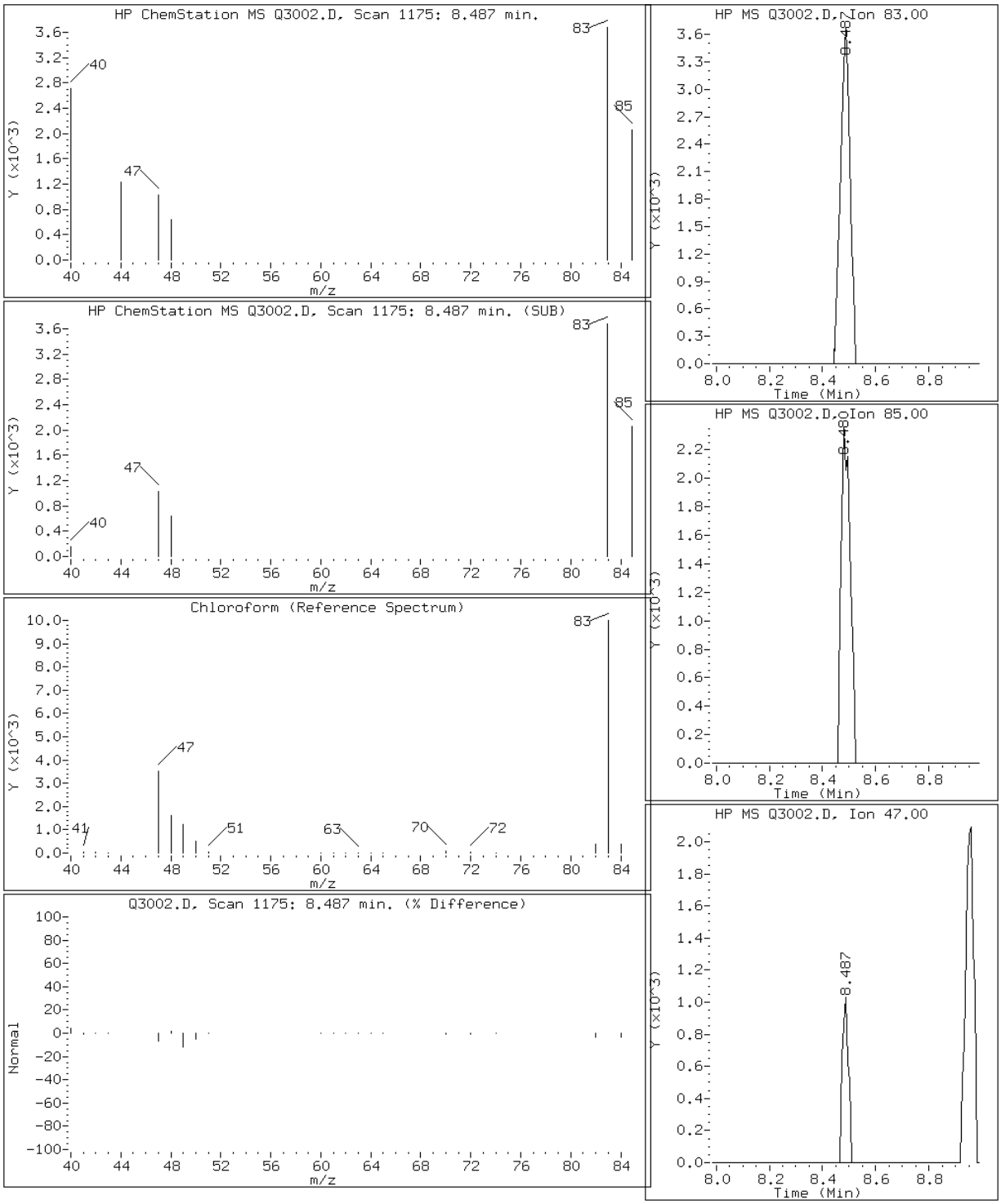
Data File: Q3002.D

Date: 21-DEC-2011 15:49

Client ID: B3VM0114AA Instrument: Q.i

Sample Info: 280-23566-e-1,,PH<2 Operator: MEIERG

48 Chloroform



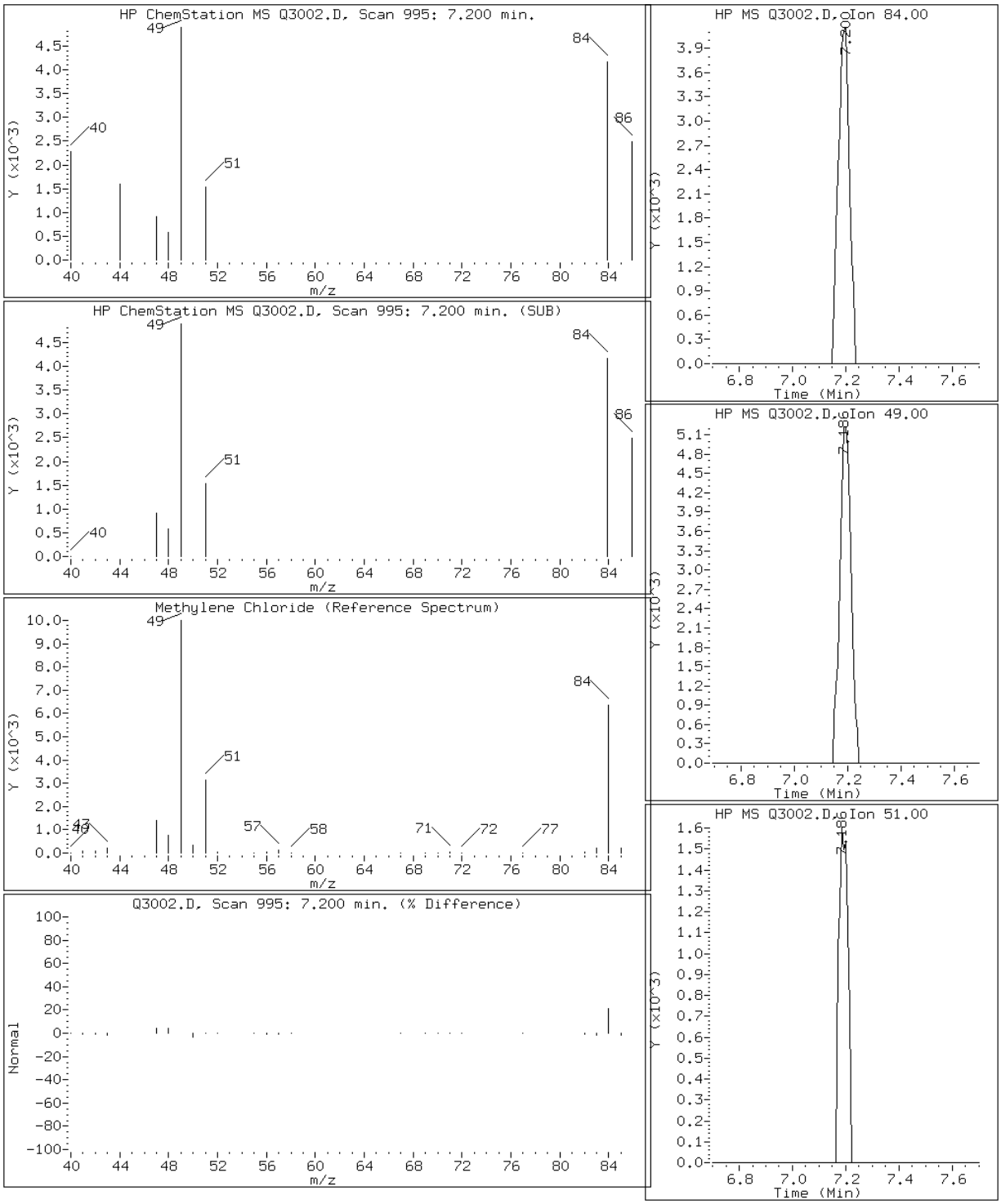
Data File: Q3002.D

Date: 21-DEC-2011 15:49

Client ID: B3VM0114AA Instrument: Q.i

Sample Info: 280-23566-e-1,,PH<2 Operator: MEIERG

30 Methylene Chloride



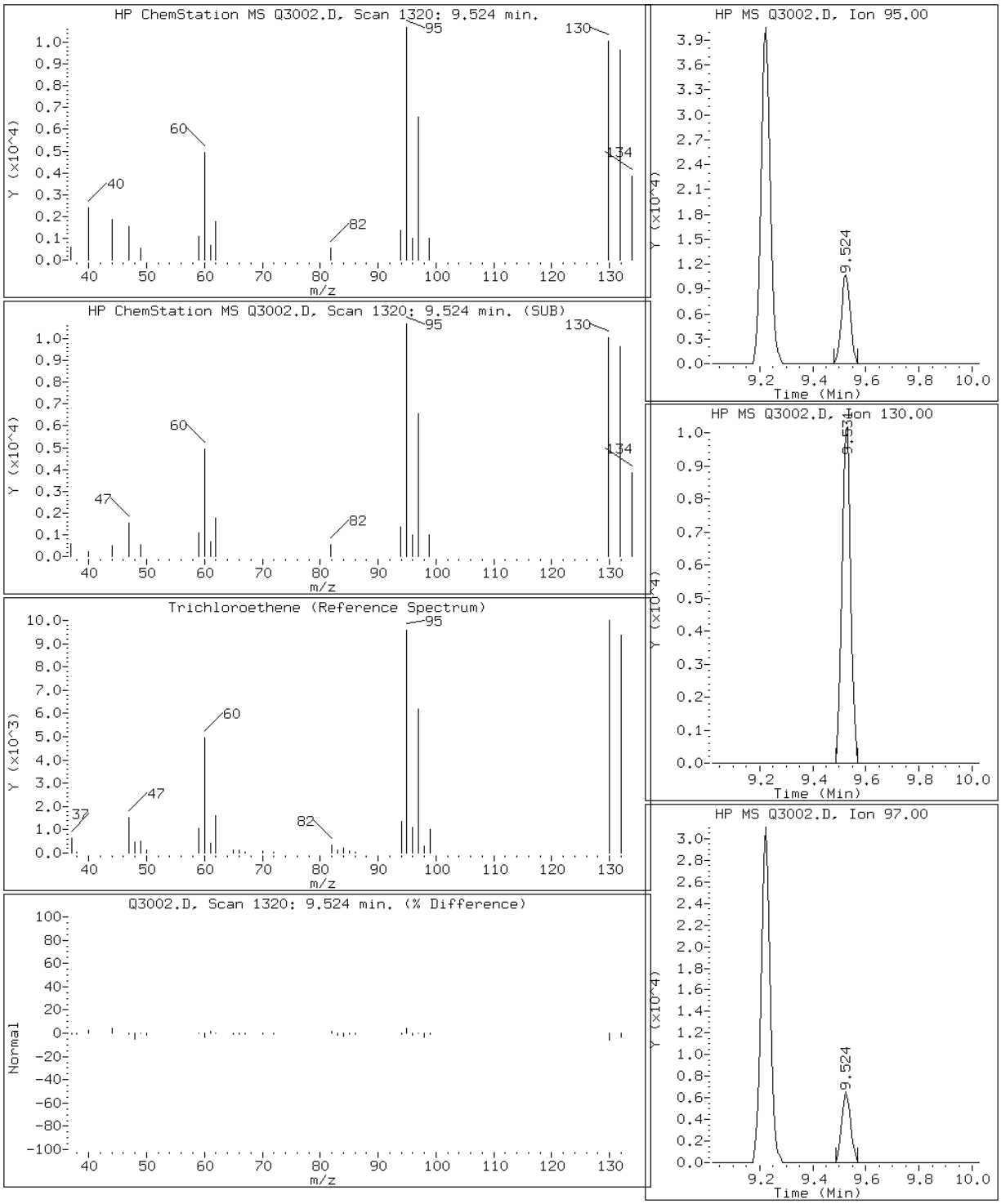
Data File: Q3002.D

Date: 21-DEC-2011 15:49

Client ID: B3VM0114AA Instrument: Q.i

Sample Info: 280-23566-e-1,,PH<2 Operator: MEIERG

64 Trichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: 120711AE | Lab Sample ID: 280-23566-2

Matrix: Water | Lab File ID: Q3003.D

Analysis Method: 8260B/DoD | Date Collected: 12/07/2011 15:05

Sample wt/vol: 20(mL) | Date Analyzed: 12/21/2011 16:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 101066 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.20	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.20	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-triflu oroethane	3.0	U	3.0	3.0	0.79
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.40	0.32
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.20	0.16
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.20	0.14
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.40	0.18
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.20	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.20	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20	0.13
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.20	0.13
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.80	0.14
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.20	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.20	0.15
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
123-91-1	1,4-Dioxane	80	U	220	80	71
544-10-5	1-Chlorohexane	0.20	U	1.0	0.20	0.17
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	3.2	U	6.0	3.2	1.8
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40	0.17
591-78-6	2-Hexanone	3.2	U	5.0	3.2	1.4
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.40	0.17
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.40	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	1.0
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.20	U	1.0	0.20	0.16
108-86-1	Bromobenzene	0.20	U	1.0	0.20	0.17
75-25-2	Bromoform	0.40	U	1.0	0.40	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.40	0.21
75-15-0	Carbon disulfide	0.80	U	2.0	0.80	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: 120711AE | Lab Sample ID: 280-23566-2

Matrix: Water | Lab File ID: Q3003.D

Analysis Method: 8260B/DoD | Date Collected: 12/07/2011 15:05

Sample wt/vol: 20(mL) | Date Analyzed: 12/21/2011 16:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 101066 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.20	U	1.0	0.20	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.20	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.20	U	1.0	0.20	0.16
74-87-3	Chloromethane	1.6	U	2.0	1.6	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.20	0.16
110-82-7	Cyclohexane	0.40	U	2.0	0.40	0.28
74-95-3	Dibromomethane	0.40	U	1.0	0.40	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.20	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.20	0.16
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.20	0.18
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.40	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
79-20-9	Methyl acetate	2.0	U	5.0	2.0	1.6
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.40	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.36
75-09-2	Methylene Chloride	0.64	J	5.0	0.40	0.32
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.80	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.40	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.20	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.40	0.19
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.40	0.17
100-42-5	Styrene	0.40	U	1.0	0.40	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.40	0.16
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.20	U	1.0	0.20	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.80	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Client Sample ID: 120711AE Lab Sample ID: 280-23566-2

Matrix: Water Lab File ID: Q3003.D

Analysis Method: 8260B/DoD Date Collected: 12/07/2011 15:05

Sample wt/vol: 20(mL) Date Analyzed: 12/21/2011 16:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 101066 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-120
460-00-4	4-Bromofluorobenzene (Surr)	96		75-120
1868-53-7	Dibromofluoromethane (Surr)	103		85-115
2037-26-5	Toluene-d8 (Surr)	98		85-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\Q3003.D
Lab Smp Id: 280-23566-E-2 Client Smp ID: 120711AE
Inj Date : 21-DEC-2011 16:11
Operator : MEIERG Inst ID: Q.i
Smp Info : 280-23566-e-2,,PH<2
Misc Info : 280-23566-E-2
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\8260B-H2O.m
Meth Date : 20-Dec-2011 09:39 meierg Quant Type: ISTD
Cal Date : 16-DEC-2011 13:18 Cal File: Q2761.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DOD.sub
Target Version: 4.14
Processing Host: DENPC367

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	60 Fluorobenzene	96	9.223	9.226	(1.000)	1086438	12.5000	
*	95 Chlorobenzene-d5	119	11.740	11.743	(1.000)	221164	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	13.921	13.924	(1.000)	256822	12.5000	
$	50 Dibromofluoromethane (Surr)	111	8.630	8.632	(0.936)	249613	10.3239	10.3239
$	56 1,2-Dichloroethane-d4	65	8.958	8.961	(0.971)	194783	10.4105	10.4105
$	82 Toluene-d8	98	10.496	10.499	(0.894)	1155947	9.83412	9.83412
$	107 4-Bromofluorobenzene (Surr)	95	12.755	12.758	(0.916)	294324	9.63781	9.63781
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	2 Xylene (total)	106	Compound Not Detected.					
M	3 1,3-Dichloropropene (total)	75	Compound Not Detected.					
M	4 Trihalomethanes (total)	83	Compound Not Detected.					
	5 dichlorodifluoromethane	85	Compound Not Detected.					
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	7 Chloromethane	50	Compound Not Detected.					
	8 Vinyl Chloride	62	Compound Not Detected.					
	9 Ethylene Oxide	43	Compound Not Detected.					
	10 Bromomethane	94	Compound Not Detected.					
	11 Chloroethane	64	Compound Not Detected.					
	12 Dichlorofluoromethane	67	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	14 Ethanol	45	Compound Not Detected.					
	15 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
16 Ethyl Ether	59	Compound Not Detected.					
17 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.					
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 1,1-Dichloroethene	96	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
27 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	7.192	7.196	(0.780)	15066	0.64478	0.644779(a)
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
42 sec-Butyl Alcohol	45	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Propionitrile	54	Compound Not Detected.					
46 Methacrylonitrile	41	Compound Not Detected.					
47 Bromochloromethane	128	Compound Not Detected.					
48 Chloroform	83	Compound Not Detected.					
49 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
53 Cyclohexane	56	Compound Not Detected.					
54 1,1-Dichloropropene	75	Compound Not Detected.					
55 Carbon Tetrachloride	117	Compound Not Detected.					
57 TAME	73	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
59 Benzene	78	Compound Not Detected.					
61 n-Butanol	56	Compound Not Detected.					
64 Trichloroethene	95	Compound Not Detected.					
65 2-Pentanone	43	Compound Not Detected.					
66 Methyl Methacrylate	100	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
69 1,2-Dichloropropane	63	Compound Not Detected.					
70 1,4-Dioxane	88	Compound Not Detected.					
71 Dibromomethane	93	Compound Not Detected.					
72 Bromodichloromethane	83	Compound Not Detected.					
74 2-nitropropane	41	Compound Not Detected.					
75 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
79 cis-1,3-Dichloropropene	75	Compound Not Detected.					
80 4-Methyl-2-pentanone	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
83	Toluene	91	Compound Not Detected.					
85	Ethyl methacrylate	69	Compound Not Detected.					
86	trans-1,3-Dichloropropene	75	Compound Not Detected.					
87	1,1,2-Trichloroethane	97	Compound Not Detected.					
88	2-Hexanone	43	Compound Not Detected.					
89	1,3-Dichloropropane	76	Compound Not Detected.					
90	Tetrachloroethene	164	Compound Not Detected.					
91	Dibromochloromethane	129	Compound Not Detected.					
92	Tetrahydrothiophene	60	Compound Not Detected.					
93	1,2-Dibromoethane	107	Compound Not Detected.					
94	1-Chlorohexane	91	Compound Not Detected.					
96	Chlorobenzene	112	Compound Not Detected.					
97	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
98	Ethylbenzene	106	Compound Not Detected.					
99	m and p-Xylene	106	Compound Not Detected.					
101	o-Xylene	106	Compound Not Detected.					
102	Styrene	104	Compound Not Detected.					
103	Bromoform	173	Compound Not Detected.					
104	isopropyl benzene	105	Compound Not Detected.					
105	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
106	Cyclohexanone	55	Compound Not Detected.					
108	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
109	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
110	1,2,3-Trichloropropane	110	Compound Not Detected.					
111	Bromobenzene	156	Compound Not Detected.					
112	n-Propylbenzene	120	Compound Not Detected.					
113	2-Chlorotoluene	126	Compound Not Detected.					
114	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
115	4-Chlorotoluene	126	Compound Not Detected.					
116	tert-Butylbenzene	119	Compound Not Detected.					
117	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
118	sec-Butylbenzene	134	Compound Not Detected.					
119	4-Isopropyltoluene	119	Compound Not Detected.					
120	1,3-Dichlorobenzene	146	Compound Not Detected.					
122	1,4-dichlorobenzene	146	Compound Not Detected.					
123	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
124	n-Butylbenzene	91	Compound Not Detected.					
125	1,2-Dichlorobenzene	146	Compound Not Detected.					
126	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
127	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
128	Hexachlorobutadiene	225	Compound Not Detected.					
129	Naphthalene	128	Compound Not Detected.					
130	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

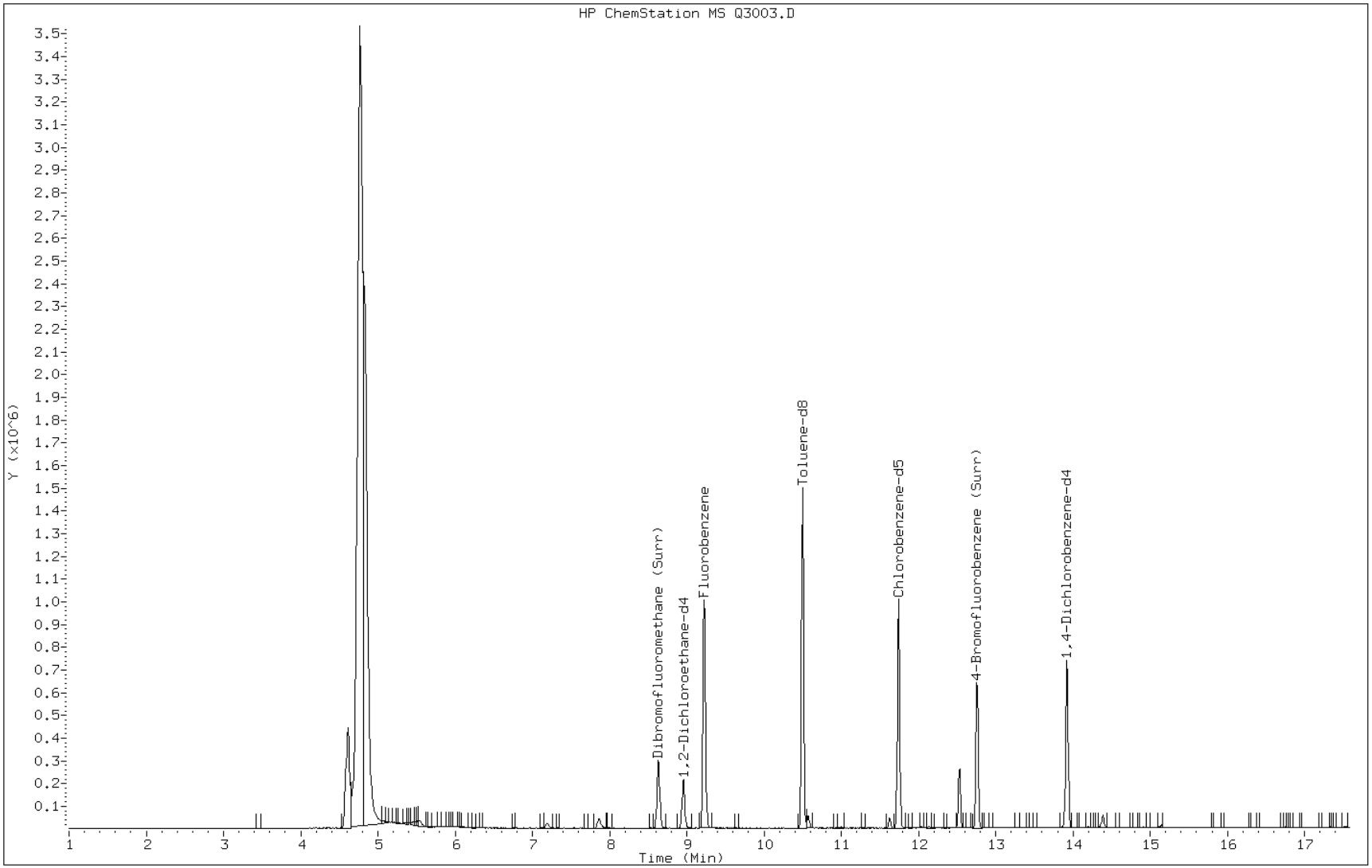
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: Q3003.D

Date: 21-DEC-2011 16:11

Client ID: 120711AE Instrument: Q.i

Sample Info: 280-23566-e-2,,PH<2 Operator: MEIERG



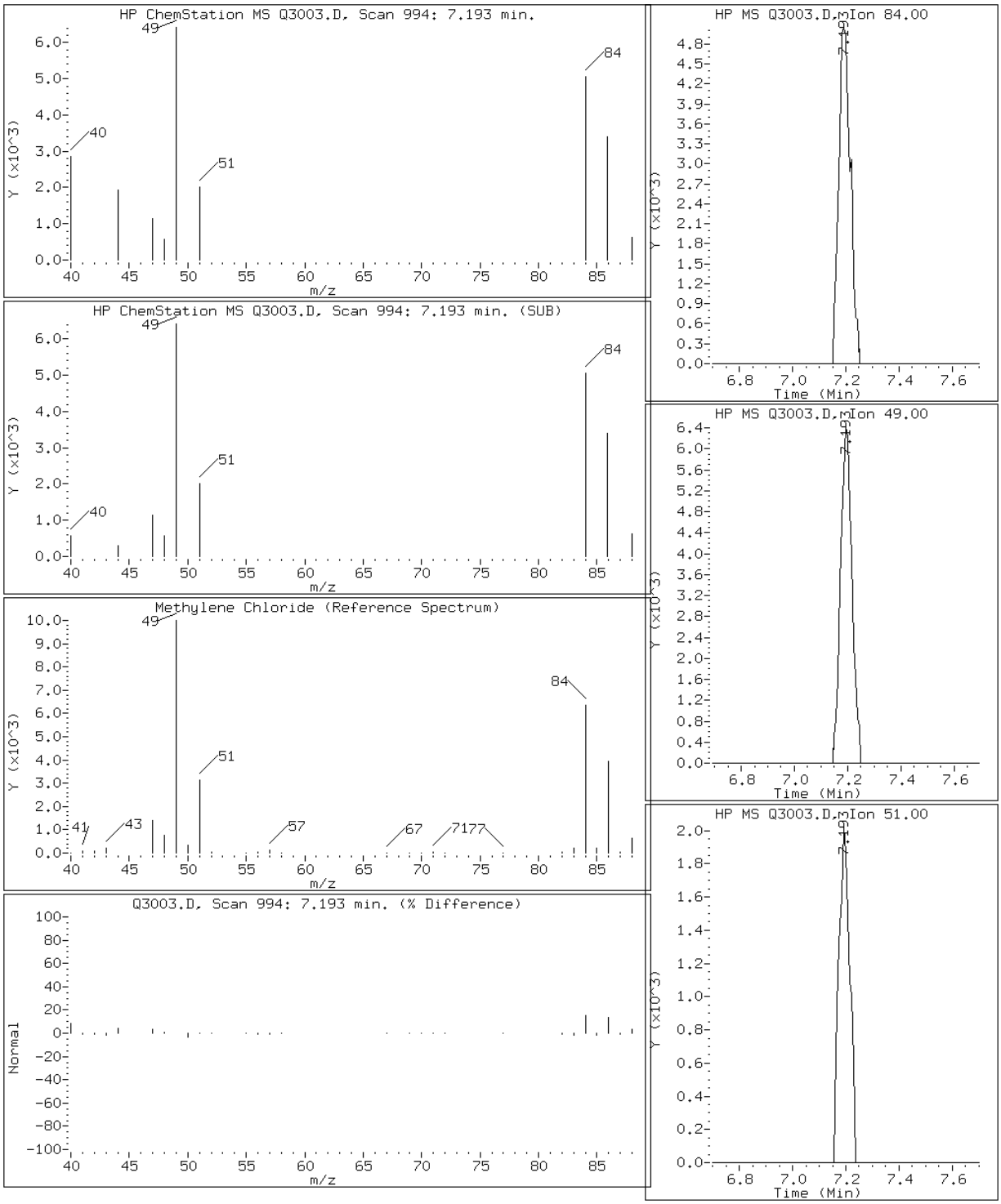
Data File: Q3003.D

Date: 21-DEC-2011 16:11

Client ID: 120711AE Instrument: Q.i

Sample Info: 280-23566-e-2,,PH<2 Operator: MEIERG

30 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Client Sample ID: 120711AF Lab Sample ID: 280-23566-3

Matrix: Water Lab File ID: Q3004.D

Analysis Method: 8260B/DoD Date Collected: 12/07/2011 11:40

Sample wt/vol: 20(mL) Date Analyzed: 12/21/2011 16:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 101066 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.20	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.20	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-triflu oroethane	3.0	U	3.0	3.0	0.79
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.40	0.32
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.20	0.16
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.20	0.14
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.40	0.18
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.20	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.20	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20	0.13
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.20	0.13
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.80	0.14
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.20	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.20	0.15
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
123-91-1	1,4-Dioxane	80	U	220	80	71
544-10-5	1-Chlorohexane	0.20	U	1.0	0.20	0.17
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	3.2	U	6.0	3.2	1.8
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40	0.17
591-78-6	2-Hexanone	3.2	U	5.0	3.2	1.4
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.40	0.17
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.40	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	1.0
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.20	U	1.0	0.20	0.16
108-86-1	Bromobenzene	0.20	U	1.0	0.20	0.17
75-25-2	Bromoform	0.40	U	1.0	0.40	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.40	0.21
75-15-0	Carbon disulfide	0.80	U	2.0	0.80	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: 120711AF | Lab Sample ID: 280-23566-3

Matrix: Water | Lab File ID: Q3004.D

Analysis Method: 8260B/DoD | Date Collected: 12/07/2011 11:40

Sample wt/vol: 20(mL) | Date Analyzed: 12/21/2011 16:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 101066 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.20	U	1.0	0.20	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.20	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.20	U	1.0	0.20	0.16
74-87-3	Chloromethane	1.6	U	2.0	1.6	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.20	0.16
110-82-7	Cyclohexane	0.40	U	2.0	0.40	0.28
74-95-3	Dibromomethane	0.40	U	1.0	0.40	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.20	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.20	0.16
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.20	0.18
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.40	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
79-20-9	Methyl acetate	2.0	U	5.0	2.0	1.6
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.40	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.36
75-09-2	Methylene Chloride	1.1	J	5.0	0.40	0.32
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.80	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.40	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.20	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.40	0.19
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.40	0.17
100-42-5	Styrene	0.40	U	1.0	0.40	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.40	0.16
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.20	U	1.0	0.20	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.80	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Client Sample ID: 120711AF Lab Sample ID: 280-23566-3

Matrix: Water Lab File ID: Q3004.D

Analysis Method: 8260B/DoD Date Collected: 12/07/2011 11:40

Sample wt/vol: 20(mL) Date Analyzed: 12/21/2011 16:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 101066 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-120
460-00-4	4-Bromofluorobenzene (Surr)	94		75-120
1868-53-7	Dibromofluoromethane (Surr)	102		85-115
2037-26-5	Toluene-d8 (Surr)	97		85-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\Q3004.D
Lab Smp Id: 280-23566-B-3 Client Smp ID: 120711AF
Inj Date : 21-DEC-2011 16:33
Operator : MEIERG Inst ID: Q.i
Smp Info : 280-23566-b-3,,PH<2
Misc Info : 280-23566-B-3
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\8260B-H2O.m
Meth Date : 20-Dec-2011 09:39 meierg Quant Type: ISTD
Cal Date : 16-DEC-2011 13:18 Cal File: Q2761.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DOD.sub
Target Version: 4.14
Processing Host: DENPC367

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	60 Fluorobenzene	96	9.226	9.226	(1.000)	1102279	12.5000	
*	95 Chlorobenzene-d5	119	11.743	11.743	(1.000)	224162	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	13.924	13.924	(1.000)	264815	12.5000	
$	50 Dibromofluoromethane (Surr)	111	8.632	8.632	(0.936)	249906	10.1875	10.1875
$	56 1,2-Dichloroethane-d4	65	8.954	8.961	(0.971)	194090	10.2244	10.2244
$	82 Toluene-d8	98	10.499	10.499	(0.894)	1157889	9.71890	9.71890
$	107 4-Bromofluorobenzene (Surr)	95	12.758	12.758	(0.916)	296592	9.41893	9.41893
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	2 Xylene (total)	106	Compound Not Detected.					
M	3 1,3-Dichloropropene (total)	75	Compound Not Detected.					
M	4 Trihalomethanes (total)	83	Compound Not Detected.					
	5 dichlorodifluoromethane	85	Compound Not Detected.					
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	7 Chloromethane	50	Compound Not Detected.					
	8 Vinyl Chloride	62	Compound Not Detected.					
	9 Ethylene Oxide	43	Compound Not Detected.					
	10 Bromomethane	94	Compound Not Detected.					
	11 Chloroethane	64	Compound Not Detected.					
	12 Dichlorofluoromethane	67	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	14 Ethanol	45	Compound Not Detected.					
	15 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
16 Ethyl Ether	59	Compound Not Detected.					
17 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.					
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 1,1-Dichloroethene	96	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
27 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	7.188	7.196	(0.779)	26470	1.11656	1.11656
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
42 sec-Butyl Alcohol	45	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Propionitrile	54	Compound Not Detected.					
46 Methacrylonitrile	41	Compound Not Detected.					
47 Bromochloromethane	128	Compound Not Detected.					
48 Chloroform	83	Compound Not Detected.					
49 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
53 Cyclohexane	56	Compound Not Detected.					
54 1,1-Dichloropropene	75	Compound Not Detected.					
55 Carbon Tetrachloride	117	Compound Not Detected.					
57 TAME	73	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
59 Benzene	78	Compound Not Detected.					
61 n-Butanol	56	Compound Not Detected.					
64 Trichloroethene	95	Compound Not Detected.					
65 2-Pentanone	43	Compound Not Detected.					
66 Methyl Methacrylate	100	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
69 1,2-Dichloropropane	63	Compound Not Detected.					
70 1,4-Dioxane	88	Compound Not Detected.					
71 Dibromomethane	93	Compound Not Detected.					
72 Bromodichloromethane	83	Compound Not Detected.					
74 2-nitropropane	41	Compound Not Detected.					
75 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
79 cis-1,3-Dichloropropene	75	Compound Not Detected.					
80 4-Methyl-2-pentanone	43	Compound Not Detected.					

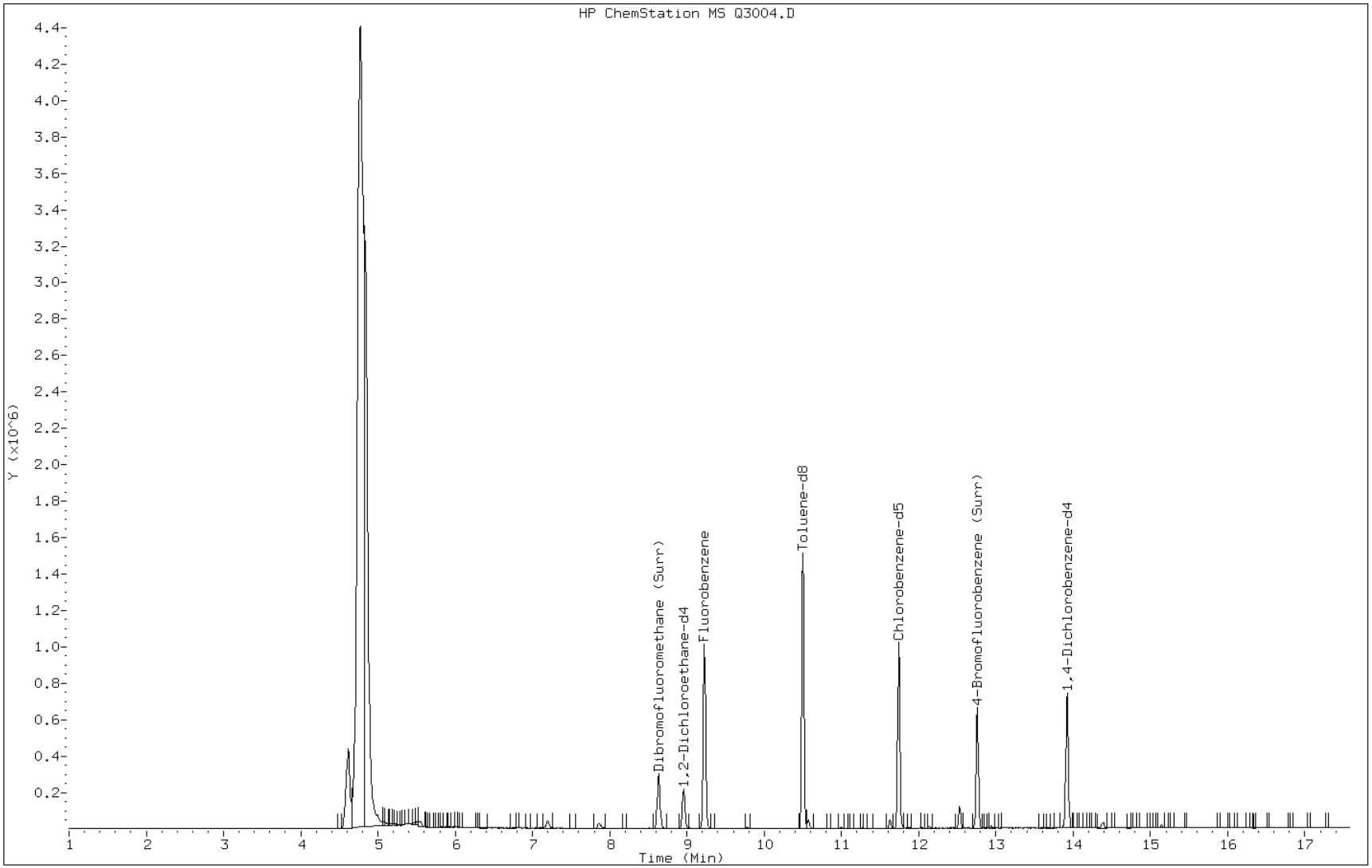
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
83 Toluene	91	Compound Not Detected.					
85 Ethyl methacrylate	69	Compound Not Detected.					
86 trans-1,3-Dichloropropene	75	Compound Not Detected.					
87 1,1,2-Trichloroethane	97	Compound Not Detected.					
88 2-Hexanone	43	Compound Not Detected.					
89 1,3-Dichloropropane	76	Compound Not Detected.					
90 Tetrachloroethene	164	Compound Not Detected.					
91 Dibromochloromethane	129	Compound Not Detected.					
92 Tetrahydrothiophene	60	Compound Not Detected.					
93 1,2-Dibromoethane	107	Compound Not Detected.					
94 1-Chlorohexane	91	Compound Not Detected.					
96 Chlorobenzene	112	Compound Not Detected.					
97 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
98 Ethylbenzene	106	Compound Not Detected.					
99 m and p-Xylene	106	Compound Not Detected.					
101 o-Xylene	106	Compound Not Detected.					
102 Styrene	104	Compound Not Detected.					
103 Bromoform	173	Compound Not Detected.					
104 isopropyl benzene	105	Compound Not Detected.					
105 cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
106 Cyclohexanone	55	Compound Not Detected.					
108 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
109 t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
110 1,2,3-Trichloropropane	110	Compound Not Detected.					
111 Bromobenzene	156	Compound Not Detected.					
112 n-Propylbenzene	120	Compound Not Detected.					
113 2-Chlorotoluene	126	Compound Not Detected.					
114 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
115 4-Chlorotoluene	126	Compound Not Detected.					
116 tert-Butylbenzene	119	Compound Not Detected.					
117 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
118 sec-Butylbenzene	134	Compound Not Detected.					
119 4-Isopropyltoluene	119	Compound Not Detected.					
120 1,3-Dichlorobenzene	146	Compound Not Detected.					
122 1,4-dichlorobenzene	146	Compound Not Detected.					
123 1,2,3-Trimethylbenzene	105	Compound Not Detected.					
124 n-Butylbenzene	91	Compound Not Detected.					
125 1,2-Dichlorobenzene	146	Compound Not Detected.					
126 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
127 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
128 Hexachlorobutadiene	225	Compound Not Detected.					
129 Naphthalene	128	Compound Not Detected.					
130 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: Q3004.D

Date: 21-DEC-2011 16:33

Client ID: 120711AF Instrument: Q.i

Sample Info: 280-23566-b-3,,PH<2 Operator: MEIERG



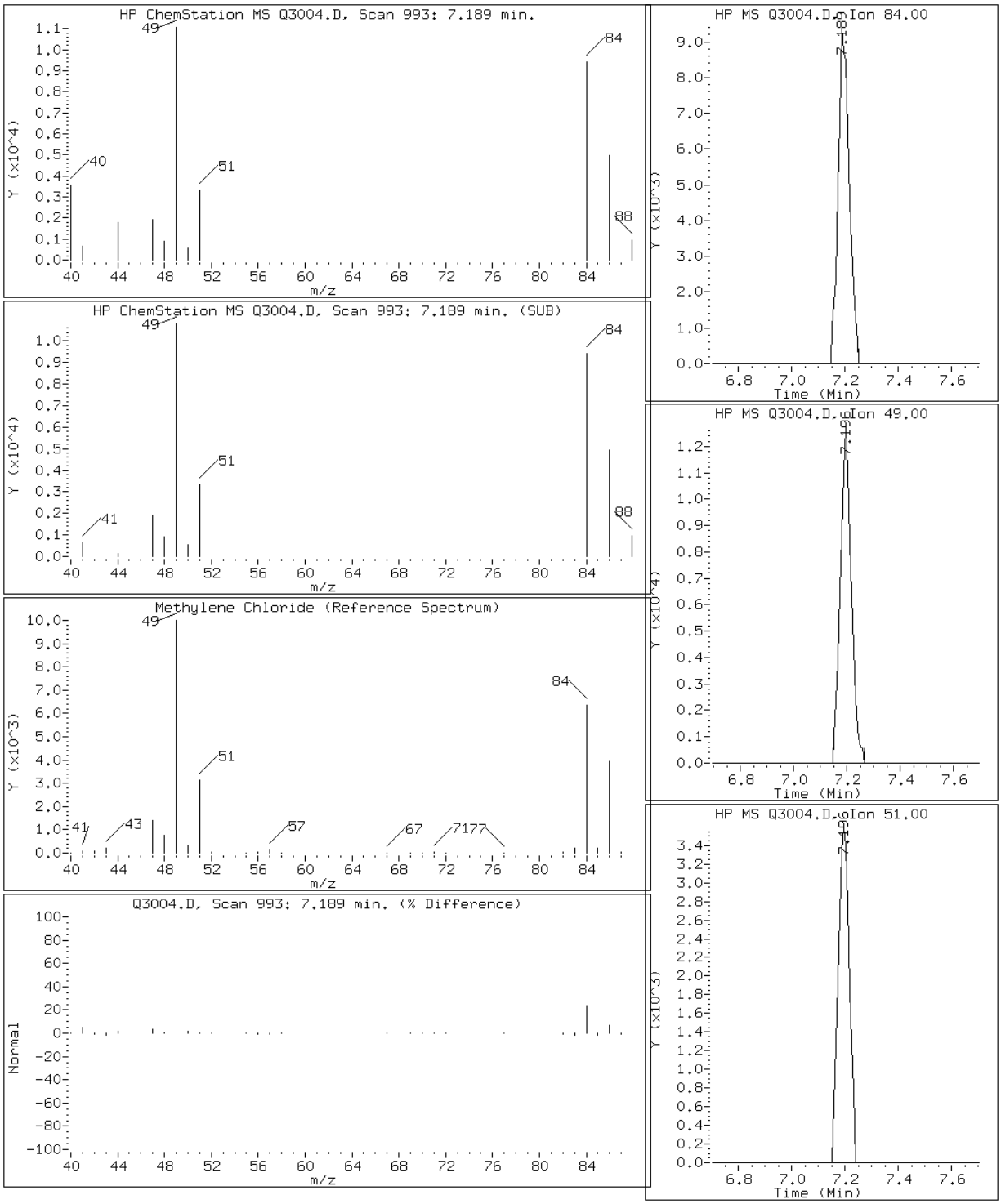
Data File: Q3004.D

Date: 21-DEC-2011 16:33

Client ID: 120711AF Instrument: Q.i

Sample Info: 280-23566-b-3,,PH<2 Operator: MEIERG

30 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: 120711AR | Lab Sample ID: 280-23566-4

Matrix: Water | Lab File ID: Q3005.D

Analysis Method: 8260B/DoD | Date Collected: 12/07/2011 09:30

Sample wt/vol: 20(mL) | Date Analyzed: 12/21/2011 16:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 101066 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.20	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.20	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-triflu oroethane	3.0	U	3.0	3.0	0.79
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.40	0.32
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.20	0.16
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.20	0.14
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.40	0.18
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.20	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.20	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20	0.13
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.20	0.13
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.80	0.14
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.20	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.20	0.15
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
123-91-1	1,4-Dioxane	80	U	220	80	71
544-10-5	1-Chlorohexane	0.20	U	1.0	0.20	0.17
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	3.2	U	6.0	3.2	1.8
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40	0.17
591-78-6	2-Hexanone	3.2	U	5.0	3.2	1.4
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.40	0.17
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.40	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	1.0
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.20	U	1.0	0.20	0.16
108-86-1	Bromobenzene	0.20	U	1.0	0.20	0.17
75-25-2	Bromoform	0.40	U	1.0	0.40	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.40	0.21
75-15-0	Carbon disulfide	0.80	U	2.0	0.80	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: 120711AR | Lab Sample ID: 280-23566-4

Matrix: Water | Lab File ID: Q3005.D

Analysis Method: 8260B/DoD | Date Collected: 12/07/2011 09:30

Sample wt/vol: 20(mL) | Date Analyzed: 12/21/2011 16:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 101066 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.20	U	1.0	0.20	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.20	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.20	U	1.0	0.20	0.16
74-87-3	Chloromethane	1.6	U	2.0	1.6	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.20	0.16
110-82-7	Cyclohexane	0.40	U	2.0	0.40	0.28
74-95-3	Dibromomethane	0.40	U	1.0	0.40	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.20	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.20	0.16
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.20	0.18
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.40	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
79-20-9	Methyl acetate	2.0	U	5.0	2.0	1.6
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.40	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.36
75-09-2	Methylene Chloride	0.62	J	5.0	0.40	0.32
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.80	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.40	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.20	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.40	0.19
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.40	0.17
100-42-5	Styrene	0.40	U	1.0	0.40	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.40	0.16
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.20	U	1.0	0.20	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.80	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Client Sample ID: 120711AR Lab Sample ID: 280-23566-4

Matrix: Water Lab File ID: Q3005.D

Analysis Method: 8260B/DoD Date Collected: 12/07/2011 09:30

Sample wt/vol: 20(mL) Date Analyzed: 12/21/2011 16:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 101066 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-120
460-00-4	4-Bromofluorobenzene (Surr)	99		75-120
1868-53-7	Dibromofluoromethane (Surr)	101		85-115
2037-26-5	Toluene-d8 (Surr)	95		85-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\Q3005.D
Lab Smp Id: 280-23566-B-4 Client Smp ID: 120711AR
Inj Date : 21-DEC-2011 16:55
Operator : MEIERG Inst ID: Q.i
Smp Info : 280-23566-b-4,,PH<2
Misc Info : 280-23566-B-4
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\8260B-H2O.m
Meth Date : 20-Dec-2011 09:39 meierg Quant Type: ISTD
Cal Date : 16-DEC-2011 13:18 Cal File: Q2761.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DOD.sub
Target Version: 4.14
Processing Host: DENPC367

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	60 Fluorobenzene	96	9.225	9.226	(1.000)	1157432	12.5000	
*	95 Chlorobenzene-d5	119	11.742	11.743	(1.000)	248714	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	13.923	13.924	(1.000)	274883	12.5000	
$	50 Dibromofluoromethane (Surr)	111	8.632	8.632	(0.936)	261374	10.1472	10.1472
$	56 1,2-Dichloroethane-d4	65	8.954	8.961	(0.971)	197281	9.89731	9.89731
$	82 Toluene-d8	98	10.498	10.499	(0.894)	1253619	9.48369	9.48369
$	107 4-Bromofluorobenzene (Surr)	95	12.757	12.758	(0.916)	324574	9.93003	9.93003
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	2 Xylene (total)	106	Compound Not Detected.					
M	3 1,3-Dichloropropene (total)	75	Compound Not Detected.					
M	4 Trihalomethanes (total)	83	Compound Not Detected.					
	5 dichlorodifluoromethane	85	Compound Not Detected.					
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	7 Chloromethane	50	Compound Not Detected.					
	8 Vinyl Chloride	62	Compound Not Detected.					
	9 Ethylene Oxide	43	Compound Not Detected.					
	10 Bromomethane	94	Compound Not Detected.					
	11 Chloroethane	64	Compound Not Detected.					
	12 Dichlorofluoromethane	67	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	14 Ethanol	45	Compound Not Detected.					
	15 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
16 Ethyl Ether	59	Compound Not Detected.					
17 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.					
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 1,1-Dichloroethene	96	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
27 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	7.195	7.196	(0.780)	15504	0.62283	0.622826(a)
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
42 sec-Butyl Alcohol	45	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Propionitrile	54	Compound Not Detected.					
46 Methacrylonitrile	41	Compound Not Detected.					
47 Bromochloromethane	128	Compound Not Detected.					
48 Chloroform	83	Compound Not Detected.					
49 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
53 Cyclohexane	56	Compound Not Detected.					
54 1,1-Dichloropropene	75	Compound Not Detected.					
55 Carbon Tetrachloride	117	Compound Not Detected.					
57 TAME	73	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
59 Benzene	78	Compound Not Detected.					
61 n-Butanol	56	Compound Not Detected.					
64 Trichloroethene	95	Compound Not Detected.					
65 2-Pentanone	43	Compound Not Detected.					
66 Methyl Methacrylate	100	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
69 1,2-Dichloropropane	63	Compound Not Detected.					
70 1,4-Dioxane	88	Compound Not Detected.					
71 Dibromomethane	93	Compound Not Detected.					
72 Bromodichloromethane	83	Compound Not Detected.					
74 2-nitropropane	41	Compound Not Detected.					
75 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
79 cis-1,3-Dichloropropene	75	Compound Not Detected.					
80 4-Methyl-2-pentanone	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
83	Toluene	91	Compound Not Detected.					
85	Ethyl methacrylate	69	Compound Not Detected.					
86	trans-1,3-Dichloropropene	75	Compound Not Detected.					
87	1,1,2-Trichloroethane	97	Compound Not Detected.					
88	2-Hexanone	43	Compound Not Detected.					
89	1,3-Dichloropropane	76	Compound Not Detected.					
90	Tetrachloroethene	164	Compound Not Detected.					
91	Dibromochloromethane	129	Compound Not Detected.					
92	Tetrahydrothiophene	60	Compound Not Detected.					
93	1,2-Dibromoethane	107	Compound Not Detected.					
94	1-Chlorohexane	91	Compound Not Detected.					
96	Chlorobenzene	112	Compound Not Detected.					
97	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
98	Ethylbenzene	106	Compound Not Detected.					
99	m and p-Xylene	106	Compound Not Detected.					
101	o-Xylene	106	Compound Not Detected.					
102	Styrene	104	Compound Not Detected.					
103	Bromoform	173	Compound Not Detected.					
104	isopropyl benzene	105	Compound Not Detected.					
105	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
106	Cyclohexanone	55	Compound Not Detected.					
108	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
109	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
110	1,2,3-Trichloropropane	110	Compound Not Detected.					
111	Bromobenzene	156	Compound Not Detected.					
112	n-Propylbenzene	120	Compound Not Detected.					
113	2-Chlorotoluene	126	Compound Not Detected.					
114	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
115	4-Chlorotoluene	126	Compound Not Detected.					
116	tert-Butylbenzene	119	Compound Not Detected.					
117	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
118	sec-Butylbenzene	134	Compound Not Detected.					
119	4-Isopropyltoluene	119	Compound Not Detected.					
120	1,3-Dichlorobenzene	146	Compound Not Detected.					
122	1,4-dichlorobenzene	146	Compound Not Detected.					
123	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
124	n-Butylbenzene	91	Compound Not Detected.					
125	1,2-Dichlorobenzene	146	Compound Not Detected.					
126	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
127	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
128	Hexachlorobutadiene	225	Compound Not Detected.					
129	Naphthalene	128	Compound Not Detected.					
130	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

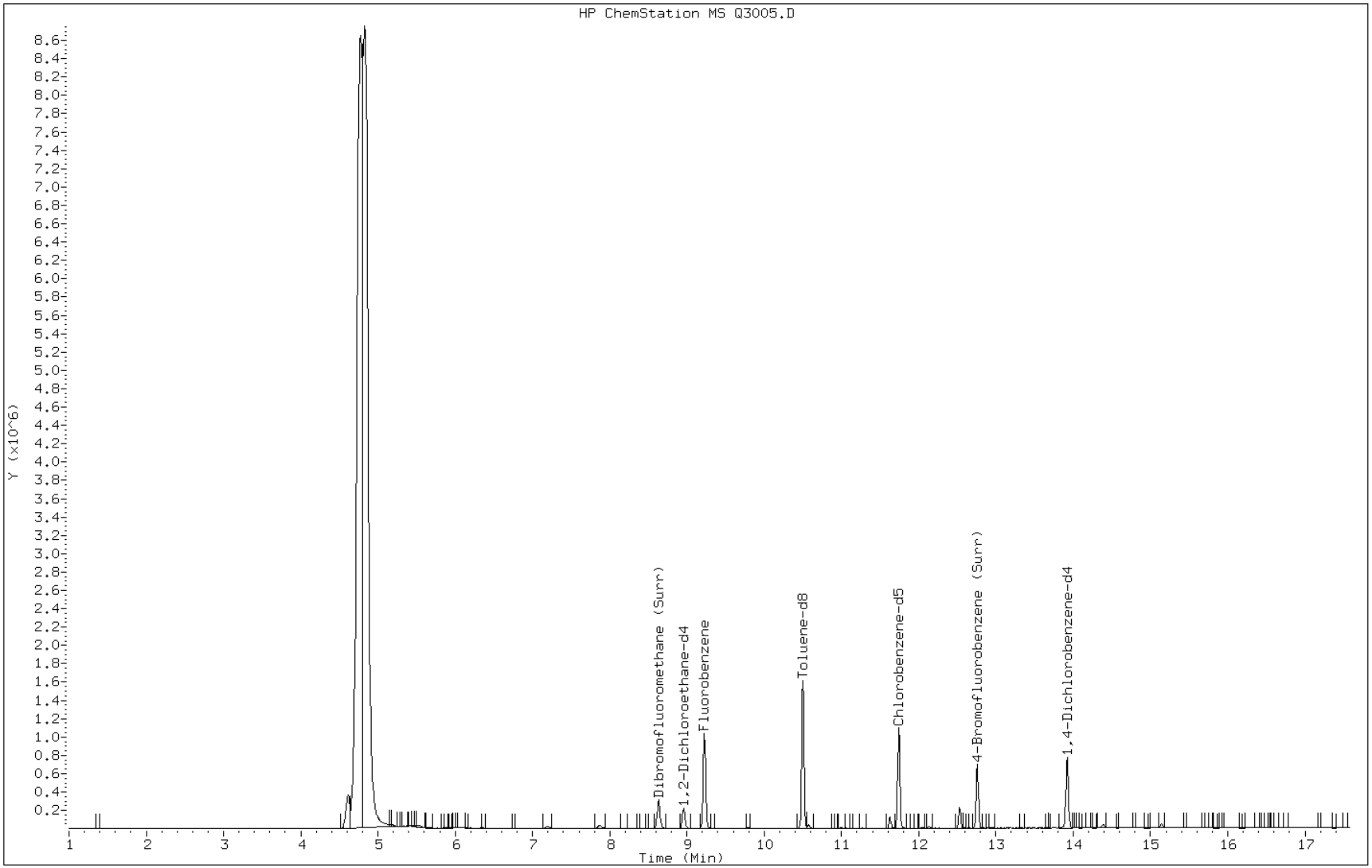
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: Q3005.D

Date: 21-DEC-2011 16:55

Client ID: 120711AR Instrument: Q.i

Sample Info: 280-23566-b-4,,PH<2 Operator: MEIERG



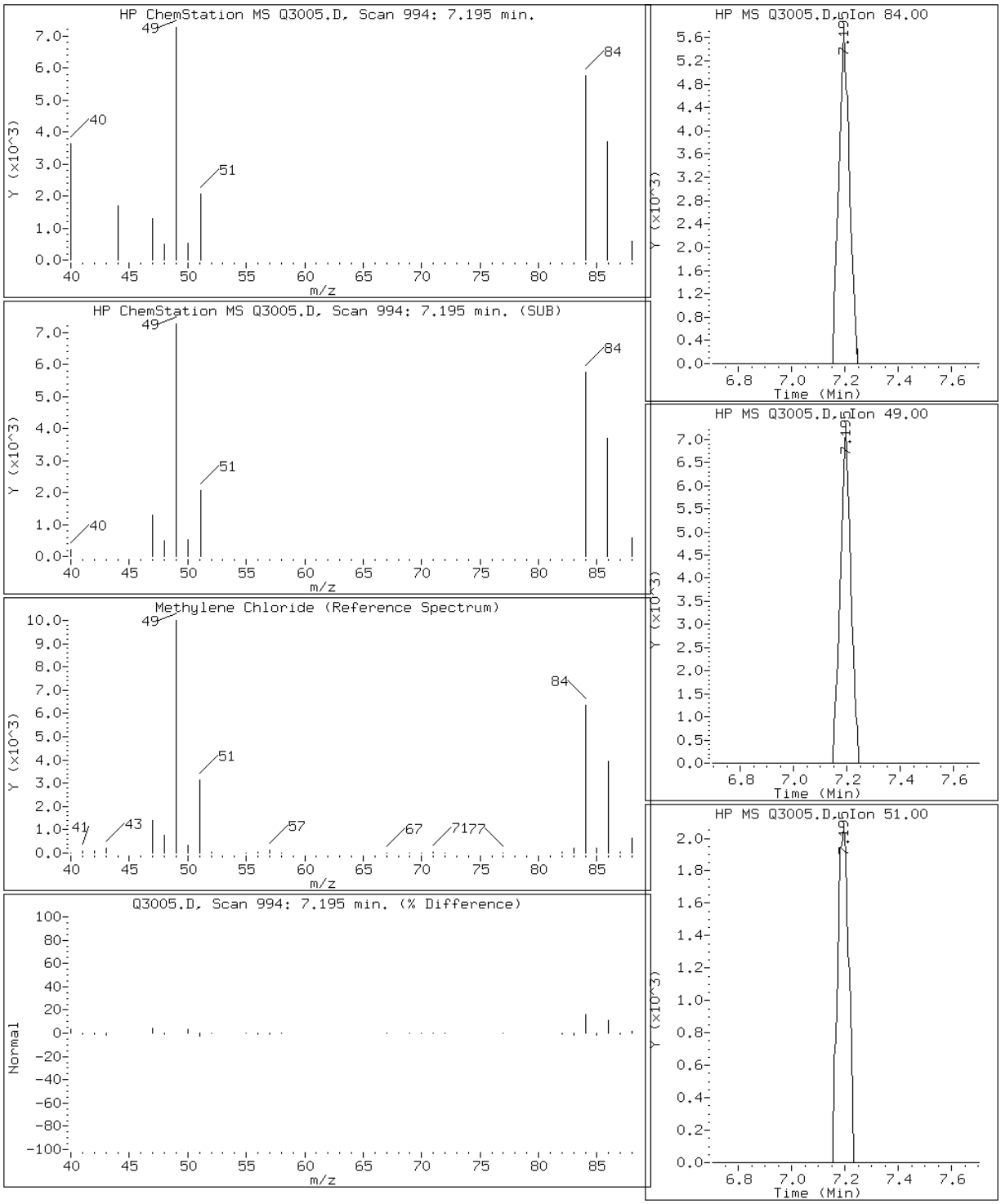
Data File: Q3005.D

Date: 21-DEC-2011 16:55

Client ID: 120711AR Instrument: Q.i

Sample Info: 280-23566-b-4,,PH<2 Operator: MEIERG

30 Methylene Chloride



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 09:16 Calibration End Date: 12/16/2011 11:28 Calibration ID: 8091

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-100335/2	Q2750.D
Level 2	IC 280-100335/3	Q2751.D
Level 3	IC 280-100335/4	Q2752.D
Level 4	IC 280-100335/5	Q2753.D
Level 5	IC 280-100335/6	Q2754.D
Level 6	IC 280-100335/7	Q2755.D
Level 7	IC 280-100335/8	Q2756.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethene, Total	0.2966 0.3526	0.3246 0.3539	0.3238	0.3252	0.3547	Ave		0.3330				6.5		15.0			
Xylenes, Total	+++++ 3.2545	2.9210 3.4039	2.9910	2.9962	3.3341	Ave		3.1501				6.5		15.0			
Ethanol	+++++ 0.0008	+++++ 0.0008	0.0007	0.0007	0.0008	Ave		0.0008				8.7		15.0			
Dichlorodifluoromethane	+++++ 0.3571	0.2768 0.3601	0.2597	0.3411	0.3759	Ave		0.3284				14.7		15.0			
Chloromethane	+++++ 0.3450	0.2964 0.3341	0.3262	0.3454	0.3664	Ave		0.3356			0.1000	7.0		15.0			
Vinyl chloride	+++++ 0.3968	0.3791 0.3800	0.3666	0.3923	0.4217	Ave		0.3894				4.9		30.0			
Bromomethane	0.2125 0.2698	0.2975 0.2487	0.2713	0.2715	0.2967	Ave		0.2668				11.0		15.0			
Chloroethane	+++++ 0.2355	0.2277 0.2324	0.2149	0.2334	0.2500	Ave		0.2323				4.9		15.0			
Trichlorofluoromethane	+++++ 0.5634	0.5148 0.5724	0.5168	0.5367	0.5870	Ave		0.5485				5.5		15.0			
Acrolein	+++++ 0.0117	0.0103 0.0118	0.0105	0.0104	0.0118	Ave		0.0111				7.0		15.0			
Acetone	+++++ 0.0184	0.0236 0.0180	0.0202	0.0192	0.0196	Ave		0.0198				10.2		15.0			
1,1-Dichloroethene	0.2774 0.3128	0.2829 0.3175	0.2916	0.2880	0.3164	Ave		0.2981				5.7		30.0			
Iodomethane	0.3673 0.4642	0.4139 0.4713	0.4086	0.4181	0.4609	Ave		0.4292				8.8		15.0			
2-Butanone (MEK)	+++++ 0.0293	0.0267 0.0291	0.0272	0.0269	0.0301	Ave		0.0282				5.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 09:16 Calibration End Date: 12/16/2011 11:28 Calibration ID: 8091

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	+++++ 0.0084	0.0102 0.0080	0.0084	0.0082	0.0086	Ave		0.0086				9.2		15.0			
2-Methyl-2-propanol	+++++ 0.0065	0.0055 0.0065	0.0057	0.0057	0.0063	Ave		0.0060				7.6		15.0			
Methylene Chloride	+++++ 0.2562	0.3152 0.2525	0.2744	0.2519	0.2627	Ave		0.2688				9.0		15.0			
Acrylonitrile	+++++ 0.0261	0.0230 0.0259	0.0237	0.0238	0.0265	Ave		0.0248				6.0		15.0			
trans-1,2-Dichloroethene	0.2952 0.3601	0.3338 0.3597	0.3322	0.3325	0.3638	Ave		0.3396				7.1		15.0			
Isopropyl ether	+++++ 0.2199	0.1916 0.2152	0.1894	0.1943	0.2179	Ave		0.2047				7.0		15.0			
1,1-Dichloroethane	0.5082 0.5815	0.5604 0.5681	0.5484	0.5411	0.5935	Ave		0.5573			0.1000	5.1		15.0			
2-Chloro-1,3-butadiene	+++++ 0.5977	0.5266 0.5788	0.5457	0.5498	0.6132	Ave		0.5686				5.9		15.0			
cis-1,2-Dichloroethene	0.2980 0.3450	0.3153 0.3481	0.3153	0.3179	0.3457	Ave		0.3265				6.0		15.0			
Propionitrile	+++++ 0.0097	0.0087 0.0096	0.0086	0.0088	0.0098	Ave		0.0092				5.9		15.0			
2,2-Dichloropropane	+++++ 0.5448	0.5380 0.5387	0.5159	0.5162	0.5582	Ave		0.5353				3.1		15.0			
1,4-Dioxane	+++++ 0.0009	+++++ 0.0009	0.0007	0.0007	0.0009	Ave		0.0008				11.7		15.0			
Methacrylonitrile	+++++ 0.0504	0.0439 0.0485	0.0460	0.0446	0.0516	Ave		0.0475				6.6		15.0			
Chlorobromomethane	0.0800 0.1111	0.0988 0.1122	0.0950	0.0991	0.1091	Ave		0.1008				11.3		15.0			
Chloroform	0.4400 0.5231	0.4911 0.5148	0.4825	0.4844	0.5320	Ave		0.4954				6.3		30.0			
Isobutyl alcohol	+++++ 0.0022	0.0018 0.0021	0.0019	0.0021	0.0024	Ave		0.0021				9.3		15.0			
1,1,1-Trichloroethane	0.4996 0.5831	0.5565 0.5831	0.5364	0.5410	0.5922	Ave		0.5560				6.0		15.0			
1,1-Dichloropropene	0.4725 0.5407	0.5102 0.5427	0.5049	0.5070	0.5525	Ave		0.5186				5.4		15.0			
Carbon tetrachloride	0.3890 0.5052	0.4583 0.5107	0.4527	0.4611	0.5043	Ave		0.4687				9.2		15.0			
1,2-Dichloroethane	0.2057 0.2440	0.2413 0.2374	0.2329	0.2308	0.2525	Ave		0.2349				6.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 09:16 Calibration End Date: 12/16/2011 11:28 Calibration ID: 8091

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzene	1.1813 1.3293	1.2582 1.3109	1.2517	1.2252	1.3644	Ave		1.2745				5.0		15.0			
Trichloroethene	0.3100 0.3732	0.3412 0.3770	0.3479	0.3379	0.3727	Ave		0.3514				7.0		15.0			
1,2-Dichloropropane	+++++ 0.2653	0.2511 0.2625	0.2404	0.2417	0.2700	Ave		0.2552				4.9		30.0			
Dibromomethane	+++++ 0.0988	0.0906 0.0966	0.0879	0.0880	0.0974	Ave		0.0932				5.3		15.0			
Dichlorobromomethane	0.2320 0.3080	0.2716 0.3088	0.2682	0.2734	0.3063	Ave		0.2812				10.1		15.0			
cis-1,3-Dichloropropene	0.3103 0.3742	0.3247 0.3714	0.3212	0.3241	0.3712	Ave		0.3425				8.3		15.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.0697	0.0580 0.0699	0.0568	0.0605	0.0702	Ave		0.0642				10.0		15.0			
Toluene	1.3178 1.5058	1.4261 1.4820	1.3783	1.3545	1.5305	Ave		1.4278				5.7		30.0			
trans-1,3-Dichloropropene	+++++ 0.2737	0.2382 0.2711	0.2346	0.2339	0.2720	Ave		0.2539				7.9		15.0			
Bromoform	+++++ 0.3354	0.2559 0.3632	0.2622	0.2699	0.3190	Ave		0.3009			0.1000	14.8		15.0			
1,1,2-Trichloroethane	0.1003 0.1317	0.1199 0.1307	0.1155	0.1172	0.1311	Ave		0.1209				9.5		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0628	+++++ 0.0655	0.0399	0.0506	0.0619	Lin2	0.0653	0.0653							0.9979		0.9900
2-Hexanone	+++++ 0.2110	0.2123 0.2241	0.2039	0.1958	0.2234	Ave		0.2118				5.2		15.0			
1,3-Dichloropropane	1.0411 1.1451	1.0963 1.1824	1.0915	1.0933	1.2008	Ave		1.1215				5.1		15.0			
Tetrachloroethene	1.2441 1.4579	1.3984 1.5975	1.3824	1.3580	1.4967	Ave		1.4193				7.9		15.0			
1,2,3-Trichloropropane	+++++ 0.1268	0.1183 0.1246	0.1128	0.1202	0.1321	Ave		0.1225				5.6		15.0			
Chlorodibromomethane	0.5502 0.7651	0.6268 0.8223	0.6455	0.6756	0.7582	Ave		0.6919				13.6		15.0			
Ethylene Dibromide	0.4733 0.5721	0.5363 0.5965	0.5157	0.5252	0.5861	Ave		0.5436				8.1		15.0			
1-Chlorohexane	+++++ 2.7413	2.6045 2.9033	2.5718	2.5168	2.8427	Ave		2.6967				5.8		15.0			
Chlorobenzene	3.4966 4.1190	4.0342 4.3611	3.9308	3.8826	4.2571	Ave		4.0117			0.3000	7.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 09:16 Calibration End Date: 12/16/2011 11:28 Calibration ID: 8091

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethylbenzene	2.3253 2.7315	2.5338 2.9638	2.5215	2.4754	2.7802	Ave		2.6188				8.3		30.0			
1,1,1,2-Tetrachloroethane	0.9396 1.2449	1.0749 1.3708	1.0801	1.1045	1.2404	Ave		1.1508				12.4		15.0			
m-Xylene & p-Xylene	+++++ 3.3617	3.0505 3.5074	3.1031	3.1129	3.4553	Ave		3.2651				6.1		15.0			
Styrene	+++++ 4.4816	3.5937 4.7350	3.6217	3.7909	4.4526	Ave		4.1126				12.2		15.0			
o-Xylene	+++++ 3.0403	2.6622 3.1969	2.7669	2.7627	3.0917	Ave		2.9201				7.4		15.0			
Isopropylbenzene	+++++ 6.0380	5.8524 5.9020	5.8791	5.6391	6.2397	Ave		5.9251				3.4		15.0			
Cyclohexanone	+++++ 0.0084	+++++ 0.0085	0.0072	0.0075	0.0083	Ave		0.0080				7.4		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.4509	0.4354 0.4348	0.4363	0.4205	0.4610	Ave		0.4398			0.3000	3.2		15.0			
N-Propylbenzene	+++++ 1.9281	1.7723 1.9681	1.8022	1.7109	1.9294	Ave		1.8518				5.6		15.0			
Bromobenzene	0.8814 1.0926	0.9894 1.1104	1.0169	0.9667	1.0920	Ave		1.0214				8.2		15.0			
1,3,5-Trimethylbenzene	+++++ 5.3155	4.9442 5.2466	5.0197	4.8372	5.4079	Ave		5.1285				4.4		15.0			
2-Chlorotoluene	+++++ 1.4393	1.3489 1.4621	1.3778	1.3270	1.4747	Ave		1.4050				4.4		15.0			
4-Chlorotoluene	+++++ 1.4092	1.3136 1.4070	1.3488	1.2772	1.4305	Ave		1.3644				4.5		15.0			
tert-Butylbenzene	+++++ 5.4325	5.0318 5.4305	5.1386	4.9650	5.5132	Ave		5.2519				4.5		15.0			
1,2,4-Trimethylbenzene	+++++ 5.1391	4.7651 5.0654	4.8642	4.7148	5.2621	Ave		4.9685				4.4		15.0			
sec-Butylbenzene	+++++ 1.5520	1.4211 1.5802	1.4526	1.3918	1.5640	Ave		1.4936				5.5		15.0			
4-Isopropyltoluene	+++++ 6.1453	5.6563 6.0110	5.7697	5.5543	6.2586	Ave		5.8992				4.8		15.0			
1,3-Dichlorobenzene	1.8705 2.3477	2.1796 2.3622	2.1870	2.0977	2.3524	Ave		2.1996				8.1		15.0			
1,4-Dichlorobenzene	1.8951 2.2259	2.0995 2.1940	2.0973	2.0205	2.2385	Ave		2.1101				5.9		15.0			
n-Butylbenzene	+++++ 5.8285	5.4590 5.7055	5.4833	5.2711	6.0124	Ave		5.6266				4.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 09:16 Calibration End Date: 12/16/2011 11:28 Calibration ID: 8091

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichlorobenzene	1.4659 1.7855	1.6443 1.7906	1.6456	1.6052	1.7969	Ave		1.6763				7.3		15.0			
Naphthalene	+++++ 1.3504	1.0968 1.3748	1.0498	1.1387	1.3415	Ave		1.2253				11.9		15.0			
1,2,4-Trichlorobenzene	+++++ 1.0950	0.9646 1.1186	0.9567	0.9363	1.0878	Ave		1.0265				8.0		15.0			
Hexachlorobutadiene	0.7409 0.8669	0.8368 0.9268	0.8052	0.7501	0.8885	Ave		0.8307				8.4		15.0			
1,2,3-Trichlorobenzene	+++++ 0.8099	0.7067 0.8199	0.7015	0.7080	0.8191	Ave		0.7608				8.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 09:16 Calibration End Date: 12/16/2011 11:28 Calibration ID: 8091

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-100335/2	Q2750.D
Level 2	IC 280-100335/3	Q2751.D
Level 3	IC 280-100335/4	Q2752.D
Level 4	IC 280-100335/5	Q2753.D
Level 5	IC 280-100335/6	Q2754.D
Level 6	IC 280-100335/7	Q2755.D
Level 7	IC 280-100335/8	Q2756.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloroethene, Total	FB	Ave	23005 2638275	81200 5608547	156607	398148	881191	0.600 60.0	2.00 120	4.00	10.0	20.0
Xylenes, Total	CBZ	Ave	+++++ 7864139	220745 16661858	432723	1092184	2575650	+++++ 90.0	3.00 180	6.00	15.0	30.0
Ethanol	FB	Ave	+++++ 156212	+++++ 320031	8872	20958	52031	+++++ 1500	+++++ 3000	100	250	500
Dichlorodifluoromethane	FB	Ave	+++++ 1336281	34619 2853795	62800	208812	466867	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chloromethane	FB	Ave	+++++ 1290658	37071 2647465	78884	211457	455130	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	+++++ 1484717	47422 3011364	88650	240170	523789	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromomethane	FB	Ave	8241 1009388	37210 1970794	65608	166174	368525	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroethane	FB	Ave	+++++ 880978	28480 1841352	51980	142848	310488	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Trichlorofluoromethane	FB	Ave	+++++ 2108034	64401 4536487	124984	328555	729164	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Acrolein	FB	Ave	+++++ 438300	12849 936286	25275	63479	146118	+++++ 300	10.0 600	20.0	50.0	100
Acetone	FB	Ave	+++++ 275693	11819 569246	19492	47029	97231	+++++ 120	4.00 240	8.00	20.0	40.0
1,1-Dichloroethene	FB	Ave	10760 1170257	35393 2516406	70519	176281	393010	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Iodomethane	FB	Ave	14247 1736844	51774 3734599	98818	255924	572506	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Ave	+++++ 438957	13371 921477	26347	65816	149581	+++++ 120	4.00 240	8.00	20.0	40.0
Acetonitrile	FB	Ave	+++++ 313126	12752 630208	20362	50380	106610	+++++ 300	10.0 600	20.0	50.0	100

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 09:16 Calibration End Date: 12/16/2011 11:28 Calibration ID: 8091

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Methyl-2-propanol	FB	Ave	+++++ 489543	13707 1027136	27449	70097	156535	+++++ 600	20.0 1200	40.0	100	200
Methylene Chloride	FB	Ave	+++++ 958705	39431 2001198	66363	154215	326320	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Acrylonitrile	FB	Ave	+++++ 978396	28808 2049516	57312	145601	328747	+++++ 300	10.0 600	20.0	50.0	100
trans-1,2-Dichloroethene	FB	Ave	11449 1347453	41756 2850338	80349	203566	451844	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	+++++ 4113771	119842 8526338	229058	594586	1353283	+++++ 150	5.00 300	10.0	25.0	50.0
1,1-Dichloroethane	FB	Ave	19710 2175576	70105 4502147	132618	331218	737155	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 2236260	65868 4586574	131958	336574	761686	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	11556 1290822	39444 2758209	76258	194582	429347	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Propionitrile	FB	Ave	+++++ 364395	10943 763696	20909	53846	121407	+++++ 300	10.0 600	20.0	50.0	100
2,2-Dichloropropane	FB	Ave	+++++ 2038306	67300 4268752	124751	315974	693327	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dioxane	FB	Ave	+++++ 165713	+++++ 344709	8086	22782	53142	+++++ 1500	+++++ 3000	100	250	500
Methacrylonitrile	FB	Ave	+++++ 1885335	54953 3845601	111235	273184	640472	+++++ 300	10.0 600	20.0	50.0	100
Chlorobromomethane	FB	Ave	3102 415611	12357 889305	22974	60670	135490	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroform	FB	Ave	17065 1957221	61426 4079357	116684	296499	660834	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Ave	+++++ 163308	4507 330101	9402	25890	58602	+++++ 600	20.0 1200	40.0	100	200
1,1,1-Trichloroethane	FB	Ave	19377 2181849	69614 4620835	129718	331174	735552	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	18326 2022889	63816 4300574	122101	310354	686293	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	15088 1890083	57331 4046968	109473	282249	626388	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethane	FB	Ave	7978 912872	30189 1881527	56328	141252	313657	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Benzene	FB	Ave	45817 4973813	157393 10388610	302695	750009	1694798	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Trichloroethene	FB	Ave	12024 1396423	42681 2987255	84137	206821	462928	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 09:16 Calibration End Date: 12/16/2011 11:28 Calibration ID: 8091

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloropropane	FB	Ave	+++++ 992727	31412 2079955	58147	147941	335369	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	+++++ 369619	11339 765769	21252	53855	120978	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dichlorobromomethane	FB	Ave	8999 1152300	33972 2446778	64849	167363	380480	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	12035 1400225	40613 2943544	77683	198378	461107	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	+++++ 1043180	29023 2215539	54970	148216	348662	+++++ 120	4.00 240	8.00	20.0	40.0
Toluene	FB	Ave	51108 5634097	178385 11744305	333314	829135	1901143	0.300 30.0	1.00 60.0	2.00	5.00	10.0
trans-1,3-Dichloropropene	FB	Ave	+++++ 1024040	29797 2148340	56741	143167	337890	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromoform	CBZ	Ave	+++++ 270185	6445 592583	12644	32800	82156	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1,2-Trichloroethane	FB	Ave	3891 492700	15002 1035979	27936	71744	162886	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Lin2	+++++ 66014	+++++ 147802	2398	8026	21030	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
2-Hexanone	CBZ	Ave	+++++ 679942	21390 1462790	39335	95163	230105	+++++ 120	4.00 240	8.00	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	7950 922305	27615 1929327	52639	132842	309213	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Tetrachloroethene	CBZ	Ave	9500 1174251	35227 2606537	66667	165009	385419	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	+++++ 133176	3747 281103	6785	19061	44850	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chlorodibromomethane	CBZ	Ave	4201 616236	15788 1341653	31129	82097	195247	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylene Dibromide	CBZ	Ave	3614 460827	13510 973291	24869	63812	150913	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1-Chlorohexane	CBZ	Ave	+++++ 2208015	65608 4737109	124024	305818	732014	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chlorobenzene	CBZ	Ave	26700 3317688	101623 7115774	189562	471776	1096233	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylbenzene	CBZ	Ave	17756 2200084	63827 4835857	121597	300785	715911	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	7175 1002687	27078 2236718	52086	134213	319402	0.300 30.0	1.00 60.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBZ	Ave	+++++ 5415320	153685 11445687	299289	756487	1779529	+++++ 60.0	2.00 120	4.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 09:16 Calibration End Date: 12/16/2011 11:28 Calibration ID: 8091

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Styrene	CBZ	Ave	+++++ 3609710	90527 7725810	174654	460630	1146576	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
o-Xylene	CBZ	Ave	+++++ 2448819	67060 5216171	133434	335697	796121	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Isopropylbenzene	DCB	Ave	+++++ 6344000	185301 13311615	353605	894168	2118506	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Cyclohexanone	DCB	Ave	+++++ 352997	+++++ 769087	17309	47663	112547	+++++ 1200	+++++ 2400	80.0	200	400
1,1,2,2-Tetrachloroethane	DCB	Ave	+++++ 473778	13785 980613	26239	66682	156520	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
N-Propylbenzene	DCB	Ave	+++++ 2025862	56117 4438931	108393	271281	655087	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromobenzene	DCB	Ave	8374 1147949	31326 2504472	61164	153292	370758	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	+++++ 5584901	156545 11833460	301914	767012	1836108	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Chlorotoluene	DCB	Ave	+++++ 1512289	42710 3297587	82870	210422	500708	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
4-Chlorotoluene	DCB	Ave	+++++ 1480644	41592 3173416	81123	202521	485694	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
tert-Butylbenzene	DCB	Ave	+++++ 5707807	159320 12248143	309065	787269	1871846	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	+++++ 5399594	150876 11424724	292563	747595	1786584	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
sec-Butylbenzene	DCB	Ave	+++++ 1630671	44995 3564050	87370	220690	531010	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
4-Isopropyltoluene	DCB	Ave	+++++ 6456766	179093 13557340	347022	880715	2124927	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	17770 2466733	69011 5327698	131538	332624	798695	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCB	Ave	18004 2338738	66475 4948478	126141	320386	760009	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butylbenzene	DCB	Ave	+++++ 6123923	172847 12868333	329800	835809	2041338	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	13927 1875977	52063 4038649	98973	254523	610090	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Naphthalene	DCB	Ave	+++++ 1418820	34729 3100710	63140	180551	455470	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCB	Ave	+++++ 1150481	30541 2522861	57541	148467	369323	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Hexachlorobutadiene	DCB	Ave	7039 910830	26496 2090392	48428	118938	301658	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 09:16 Calibration End Date: 12/16/2011 11:28 Calibration ID: 8091

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,3-Trichlorobenzene	DCB	Ave	+++++ 850956	22376 1849159	42190	112271	278106	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2750.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 16-DEC-2011 09:16
Operator : MEIERG Inst ID: Q.i
Smp Info : IC,,M0.3
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 14:28 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 11:28 Cal File: Q2756.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 60	Fluorobenzene	96	9.225	9.225	(1.000)	1615988	12.5000	
* 95	Chlorobenzene-d5	119	11.741	11.741	(1.000)	318163	12.5000	
* 121	1,4-Dichlorobenzene-d4	152	13.922	13.922	(1.000)	395847	12.5000	
M 1	1,2-Dichloroethene (total)	96				23005	0.60000	0.534572(a)
M 2	Xylene (total)	106				61011	0.90000	0.760271(a)
M 3	1,3-Dichloropropene (total)	75				20863	0.60000	0.540770(a)
M 4	Trihalomethanes (total)	83				30265	1.20000	0.752549(a)
5	dichlorodifluoromethane	85	5.113	5.113	(0.554)	9314	0.30000	0.219354(aQ)
7	Chloromethane	50	5.349	5.349	(0.580)	14124	0.30000	0.325571(aQ)
8	Vinyl Chloride	62	5.514	5.514	(0.598)	13480	0.30000	0.267758(aQ)
10	Bromomethane	94	5.943	5.943	(0.644)	8241	0.30000	0.238894(a)
14	Ethanol	45	Compound Not Detected.					
19	Acrolein	56	6.665	6.665	(0.723)	3326	3.00000	2.32525(a)
20	Acetone	43	6.772	6.772	(0.734)	6232	1.20000	2.43205(aQ)
22	1,1-Dichloroethene	96	6.808	6.808	(0.738)	10760	0.30000	0.279209(a)
24	Iodomethane	142	7.015	7.015	(0.761)	14247	0.30000	0.256773(a)
30	Methylene Chloride	84	7.194	7.194	(0.780)	18561	0.30000	0.534049(a)
29	tert-Butyl alcohol	59	7.122	7.122	(0.772)	3290	6.00000	4.21766(aQ)
33	trans-1,2-Dichloroethene	96	7.437	7.437	(0.806)	11449	0.30000	0.260759(a)
31	Acrylonitrile	53	7.351	7.351	(0.797)	8082	3.00000	2.51755(a)
36	Isopropyl ether	87	7.716	7.716	(0.836)	32481	1.50000	1.22731(a)
37	1,1-Dichloroethane	63	7.787	7.787	(0.844)	19710	0.30000	0.273568(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
38 Chloroprene	53	7.866	7.866	(0.853)	19054	0.30000	0.259201(a)
44 2,2-Dichloropropane	77	8.295	8.295	(0.899)	19384	0.30000	0.280115(a)
43 cis-1,2-Dichloroethene	96	8.267	8.267	(0.896)	11556	0.30000	0.273814(a)
41 2-Butanone	43	Compound Not Detected.					
47 Bromochloromethane	128	8.488	8.488	(0.920)	3102	0.30000	0.238158(a)
46 Methacrylonitrile	41	8.410	8.410	(0.912)	15624	3.00000	2.54402(a)
48 Chloroform	83	8.488	8.488	(0.920)	17065	0.30000	0.266454(a)
51 1,1,1-Trichloroethane	97	8.738	8.738	(0.947)	19377	0.30000	0.269582(a)
55 Carbon Tetrachloride	117	8.889	8.889	(0.964)	15088	0.30000	0.248980(a)
54 1,1-Dichloropropene	75	8.846	8.846	(0.959)	18326	0.30000	0.273326(a)
59 Benzene	78	9.046	9.046	(0.981)	45817	0.30000	0.278084(a)
58 1,2-Dichloroethane	62	9.017	9.017	(0.978)	7978	0.30000	0.262660(aQ)
61 n-Butanol	56	9.225	9.225	(1.000)	10576	9.00000	38.0520(aQ)
64 Trichloroethene	95	9.525	9.525	(1.033)	12024	0.30000	0.264671(a)
69 1,2-Dichloropropane	63	9.725	9.725	(1.054)	8157	0.30000	0.247271(a)
70 1,4-Dioxane	88	Compound Not Detected.					
71 Dibromomethane	93	9.832	9.832	(1.066)	2919	0.30000	0.242214(aQ)
72 Bromodichloromethane	83	9.904	9.904	(1.074)	8999	0.30000	0.247567(aQ)
79 cis-1,3-Dichloropropene	75	10.247	10.247	(1.111)	12035	0.30000	0.271842(a)
80 4-Methyl-2-pentanone	43	10.297	10.297	(1.116)	8464	1.20000	1.01997(a)
83 Toluene	91	10.555	10.555	(1.144)	51108	0.30000	0.276872(a)
87 1,1,2-Trichloroethane	97	10.841	10.841	(1.175)	3891	0.30000	0.248882(a)
90 Tetrachloroethene	164	11.034	11.034	(0.940)	9500	0.30000	0.262972(a)
89 1,3-Dichloropropane	76	10.998	10.998	(0.937)	7950	0.30000	0.278501(a)
88 2-Hexanone	43	10.962	10.962	(0.934)	5950	1.20000	1.10391(aQ)
91 Dibromochloromethane	129	11.227	11.227	(0.956)	4201	0.30000	0.238528(aQ)
93 1,2-Dibromoethane	107	11.384	11.384	(0.970)	3614	0.30000	0.261200(a)
94 1-Chlorohexane	91	11.620	11.620	(0.990)	18400	0.30000	0.268064(aQ)
96 Chlorobenzene	112	11.770	11.770	(1.002)	26700	0.30000	0.261486(aQ)
98 Ethylbenzene	106	11.799	11.799	(1.005)	17756	0.30000	0.266383(a)
97 1,1,1,2-Tetrachloroethane	131	11.806	11.806	(1.005)	7175	0.30000	0.244962(a)
99 m and p-Xylene	106	11.884	11.884	(1.012)	42617	0.60000	0.512792(a)
101 o-Xylene	106	12.263	12.263	(1.044)	18394	0.30000	0.247479(a)
102 Styrene	104	12.263	12.263	(1.044)	24631	0.30000	0.235303(a)
103 Bromoform	173	Compound Not Detected.					
104 isopropyl benzene	105	12.564	12.564	(0.902)	50267	0.30000	0.267900(a)
108 1,1,2,2-Tetrachloroethane	83	12.807	12.807	(0.920)	3674	0.30000	0.263788(aQ)
111 Bromobenzene	156	12.964	12.964	(0.931)	8374	0.30000	0.258904(a)
112 n-Propylbenzene	120	12.950	12.950	(0.930)	15590	0.30000	0.265843(a)
110 1,2,3-Trichloropropane	110	Compound Not Detected.					
113 2-Chlorotoluene	126	13.107	13.107	(0.941)	11485	0.30000	0.258132(a)
114 1,3,5-Trimethylbenzene	105	13.071	13.071	(0.939)	42275	0.30000	0.260300(a)
115 4-Chlorotoluene	126	13.200	13.200	(0.948)	10661	0.30000	0.246741(a)
116 tert-Butylbenzene	119	13.436	13.436	(0.965)	44214	0.30000	0.265842(a)
117 1,2,4-Trimethylbenzene	105	13.472	13.472	(0.968)	39579	0.30000	0.251551(a)
118 sec-Butylbenzene	134	13.651	13.651	(0.980)	11578	0.30000	0.244780(a)
119 4-Isopropyltoluene	119	13.758	13.758	(0.988)	47443	0.30000	0.253958(a)
120 1,3-Dichlorobenzene	146	13.865	13.865	(0.996)	17770	0.30000	0.255112(a)
122 1,4-dichlorobenzene	146	13.944	13.944	(1.002)	18004	0.30000	0.269430(aQ)
124 n-Butylbenzene	91	14.208	14.208	(1.021)	45917	0.30000	0.257695(a)
125 1,2-Dichlorobenzene	146	14.394	14.394	(1.034)	13927	0.30000	0.262357(a)
126 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
127 1,2,4-Trichlorobenzene	180	16.518	16.518	(1.186)	7872	0.30000	0.242167(a)
128 Hexachlorobutadiene	225	16.697	16.697	(1.199)	7039	0.30000	0.267563(aQ)
129 Naphthalene	128	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
130 1,2,3-Trichlorobenzene	180	17.404	17.404	(1.250)	3703	0.30000	0.153687(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: Q2750.D

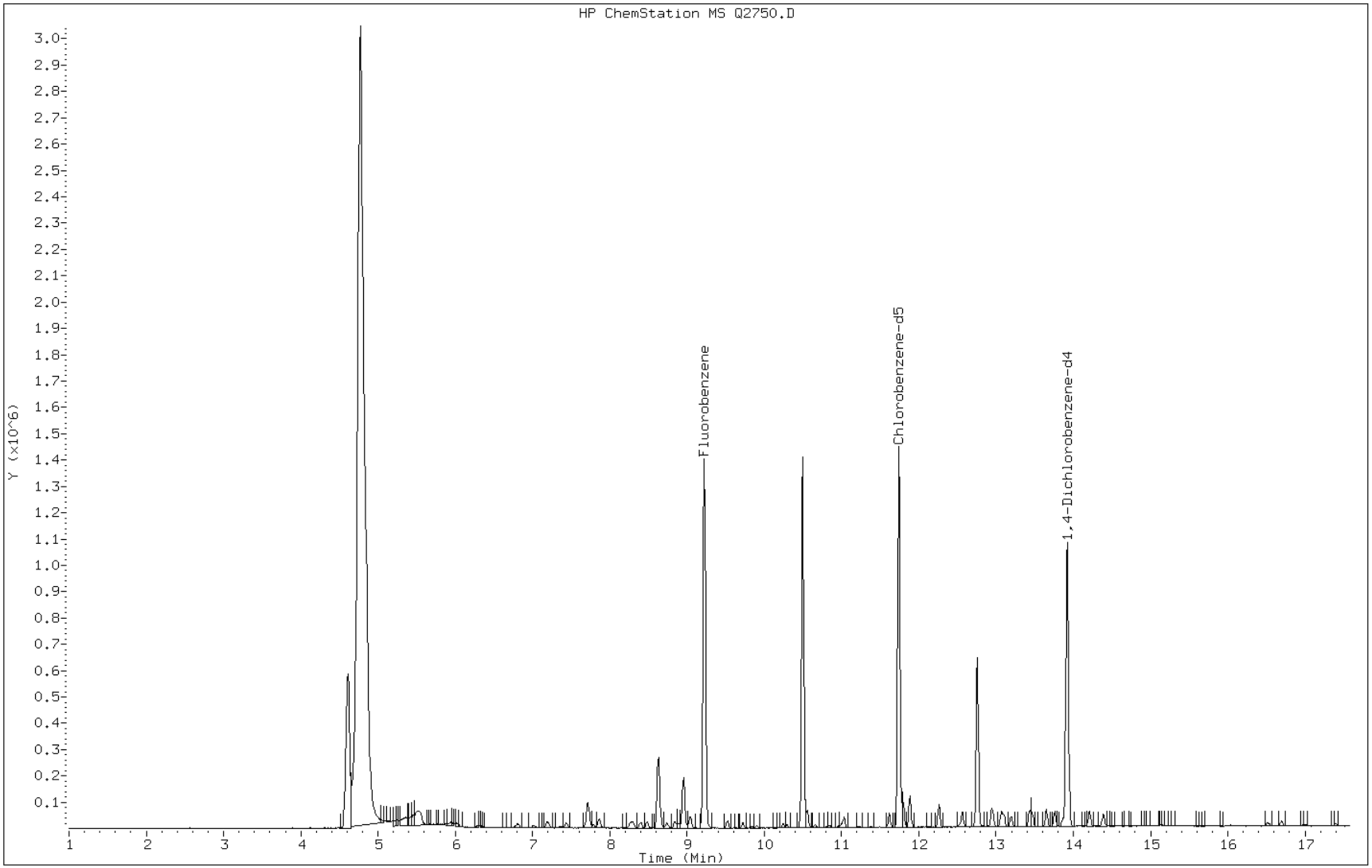
Date: 16-DEC-2011 09:16

Client ID: IC

Instrument: Q.i

Sample Info: IC,,M0.3

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2751.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 16-DEC-2011 09:38
Operator : MEIERG Inst ID: Q.i
Smp Info : IC,,M1.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 14:28 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 09:16 Cal File: Q2750.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 60 Fluorobenzene	96	9.224	9.224	(1.000)	1563615	12.5000	
* 95 Chlorobenzene-d5	119	11.741	11.741	(1.000)	314877	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.922	13.922	(1.000)	395782	12.5000	
M 1 1,2-Dichloroethene (total)	96				81200	2.00000	1.94879
M 2 Xylene (total)	106				220745	3.00000	2.78019
M 3 1,3-Dichloropropene (total)	75				70410	2.00000	1.88619
M 4 Trihalomethanes (total)	83				117631	4.00000	3.71308
5 dichlorodifluoromethane	85	5.134	5.134	(0.557)	34619	1.00000	0.842620(aQ)
7 Chloromethane	50	5.356	5.356	(0.581)	37071	1.00000	0.883142(aQ)
8 Vinyl Chloride	62	5.513	5.513	(0.598)	47422	1.00000	0.973512(aQ)
10 Bromomethane	94	5.949	5.949	(0.645)	37210	1.00000	1.11479(a)
11 Chloroethane	64	6.042	6.042	(0.655)	28480	1.00000	0.980135(a)
13 Trichlorofluoromethane	101	6.300	6.300	(0.683)	64401	1.00000	0.938556(aQ)
14 Ethanol	45	Compound Not Detected.					
19 Acrolein	56	6.664	6.664	(0.723)	12849	10.0000	9.28379(a)
20 Acetone	43	6.772	6.772	(0.734)	11819	4.00000	4.76688(a)
22 1,1-Dichloroethene	96	6.807	6.807	(0.738)	35393	1.00000	0.949168(a)
24 Iodomethane	142	7.015	7.015	(0.760)	51774	1.00000	0.964374(aQ)
25 Acetonitrile	41	7.036	7.036	(0.763)	12752	10.0000	11.8199(aQ)
30 Methylene Chloride	84	7.194	7.194	(0.780)	39431	1.00000	1.17254(a)
29 tert-Butyl alcohol	59	7.143	7.143	(0.774)	13707	20.0000	18.1604(aQ)
33 trans-1,2-Dichloroethene	96	7.437	7.437	(0.806)	41756	1.00000	0.982876(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
31 Acrylonitrile	53	7.365	7.365	(0.798)	28808	10.0000	9.27428(a)
36 Isopropyl ether	87	7.723	7.723	(0.837)	119842	5.00000	4.67995(a)
37 1,1-Dichloroethane	63	7.794	7.794	(0.845)	70105	1.00000	1.00562(Q)
38 Chloroprene	53	7.866	7.866	(0.853)	65868	1.00000	0.926048(a)
44 2,2-Dichloropropane	77	8.309	8.309	(0.901)	67300	1.00000	1.00512(a)
43 cis-1,2-Dichloroethene	96	8.273	8.273	(0.897)	39444	1.00000	0.965910(a)
41 2-Butanone	43	8.202	8.202	(0.889)	13371	4.00000	3.78726(a)
45 Propionitrile	54	8.273	8.273	(0.897)	10943	10.0000	9.48471(aQ)
47 Bromochloromethane	128	8.488	8.488	(0.920)	12357	1.00000	0.980494(a)
46 Methacrylonitrile	41	8.409	8.409	(0.912)	54953	10.0000	9.24757(a)
48 Chloroform	83	8.488	8.488	(0.920)	61426	1.00000	0.991234(a)
51 1,1,1-Trichloroethane	97	8.738	8.738	(0.947)	69614	1.00000	1.00094
55 Carbon Tetrachloride	117	8.888	8.888	(0.964)	57331	1.00000	0.977756(a)
54 1,1-Dichloropropene	75	8.845	8.845	(0.959)	63816	1.00000	0.983674(a)
59 Benzene	78	9.045	9.045	(0.981)	157393	1.00000	0.987285(a)
58 1,2-Dichloroethane	62	9.017	9.017	(0.978)	30189	1.00000	1.02720(Q)
61 n-Butanol	56	9.231	9.231	(1.001)	13742	30.0000	51.0992(aQ)
64 Trichloroethene	95	9.524	9.524	(1.033)	42681	1.00000	0.970958(a)
69 1,2-Dichloropropane	63	9.725	9.725	(1.054)	31412	1.00000	0.984116(a)
71 Dibromomethane	93	9.839	9.839	(1.067)	11339	1.00000	0.972407(aQ)
72 Bromodichloromethane	83	9.911	9.911	(1.074)	33972	1.00000	0.965890(aQ)
79 cis-1,3-Dichloropropene	75	10.247	10.247	(1.111)	40613	1.00000	0.948077(a)
80 4-Methyl-2-pentanone	43	10.297	10.297	(1.116)	29023	4.00000	3.61463(a)
83 Toluene	91	10.554	10.554	(1.144)	178385	1.00000	0.998749(a)
86 trans-1,3-Dichloropropene	75	10.661	10.661	(1.156)	29797	1.00000	0.938112(a)
87 1,1,2-Trichloroethane	97	10.847	10.847	(1.176)	15002	1.00000	0.991723(a)
90 Tetrachloroethene	164	11.033	11.033	(0.940)	35227	1.00000	0.985306(a)
89 1,3-Dichloropropane	76	11.005	11.005	(0.937)	27615	1.00000	0.977494(a)
88 2-Hexanone	43	10.962	10.962	(0.934)	21390	4.00000	4.00991(aQ)
91 Dibromochloromethane	129	11.233	11.233	(0.957)	15788	1.00000	0.905780(aQ)
93 1,2-Dibromoethane	107	11.384	11.384	(0.970)	13510	1.00000	0.986618(a)
94 1-Chlorohexane	91	11.619	11.619	(0.990)	65608	1.00000	0.965799(a)
96 Chlorobenzene	112	11.770	11.770	(1.002)	101623	1.00000	1.00563
98 Ethylbenzene	106	11.798	11.798	(1.005)	63827	1.00000	0.967552(a)
97 1,1,1,2-Tetrachloroethane	131	11.805	11.805	(1.005)	27078	1.00000	0.934121(a)
99 m and p-Xylene	106	11.884	11.884	(1.012)	153685	2.00000	1.86852(a)
101 o-Xylene	106	12.263	12.263	(1.044)	67060	1.00000	0.911662
102 Styrene	104	12.263	12.263	(1.044)	90527	1.00000	0.873840(a)
103 Bromoform	173	12.520	12.520	(1.066)	6445	1.00000	0.850176(a)
104 isopropyl benzene	105	12.563	12.563	(0.902)	185301	1.00000	0.987733(a)
106 Cyclohexanone	55	12.735	12.735	(0.915)	9639	40.0000	38.1293(aQ)
108 1,1,2,2-Tetrachloroethane	83	12.806	12.806	(0.920)	13785	1.00000	0.989907(a)
111 Bromobenzene	156	12.971	12.971	(0.932)	31326	1.00000	0.968684(a)
112 n-Propylbenzene	120	12.942	12.942	(0.930)	56117	1.00000	0.957071(a)
110 1,2,3-Trichloropropane	110	12.899	12.899	(0.927)	3747	1.00000	0.966260(a)
113 2-Chlorotoluene	126	13.107	13.107	(0.941)	42710	1.00000	0.960088(a)
114 1,3,5-Trimethylbenzene	105	13.071	13.071	(0.939)	156545	1.00000	0.964052(a)
115 4-Chlorotoluene	126	13.193	13.193	(0.948)	41592	1.00000	0.962775(a)
116 tert-Butylbenzene	119	13.436	13.436	(0.965)	159320	1.00000	0.958089(a)
117 1,2,4-Trimethylbenzene	105	13.471	13.471	(0.968)	150876	1.00000	0.959075(a)
118 sec-Butylbenzene	134	13.650	13.650	(0.980)	44995	1.00000	0.951432(a)
119 4-Isopropyltoluene	119	13.757	13.757	(0.988)	179093	1.00000	0.958827(a)
120 1,3-Dichlorobenzene	146	13.865	13.865	(0.996)	69011	1.00000	0.990906(a)
122 1,4-dichlorobenzene	146	13.950	13.950	(1.002)	66475	1.00000	0.994962(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
124	n-Butylbenzene	91	14.208	14.208	(1.021)	172847	1.00000	0.970211(a)
125	1,2-Dichlorobenzene	146	14.401	14.401	(1.034)	52063	1.00000	0.980923(a)
126	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
127	1,2,4-Trichlorobenzene	180	16.524	16.524	(1.187)	30541	1.00000	0.939689(a)
128	Hexachlorobutadiene	225	16.696	16.696	(1.199)	26496	1.00000	1.00732(Q)
129	Naphthalene	128	16.989	16.989	(1.220)	34729	1.00000	0.895148(a)
130	1,2,3-Trichlorobenzene	180	17.404	17.404	(1.250)	22376	1.00000	0.928833(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: Q2751.D

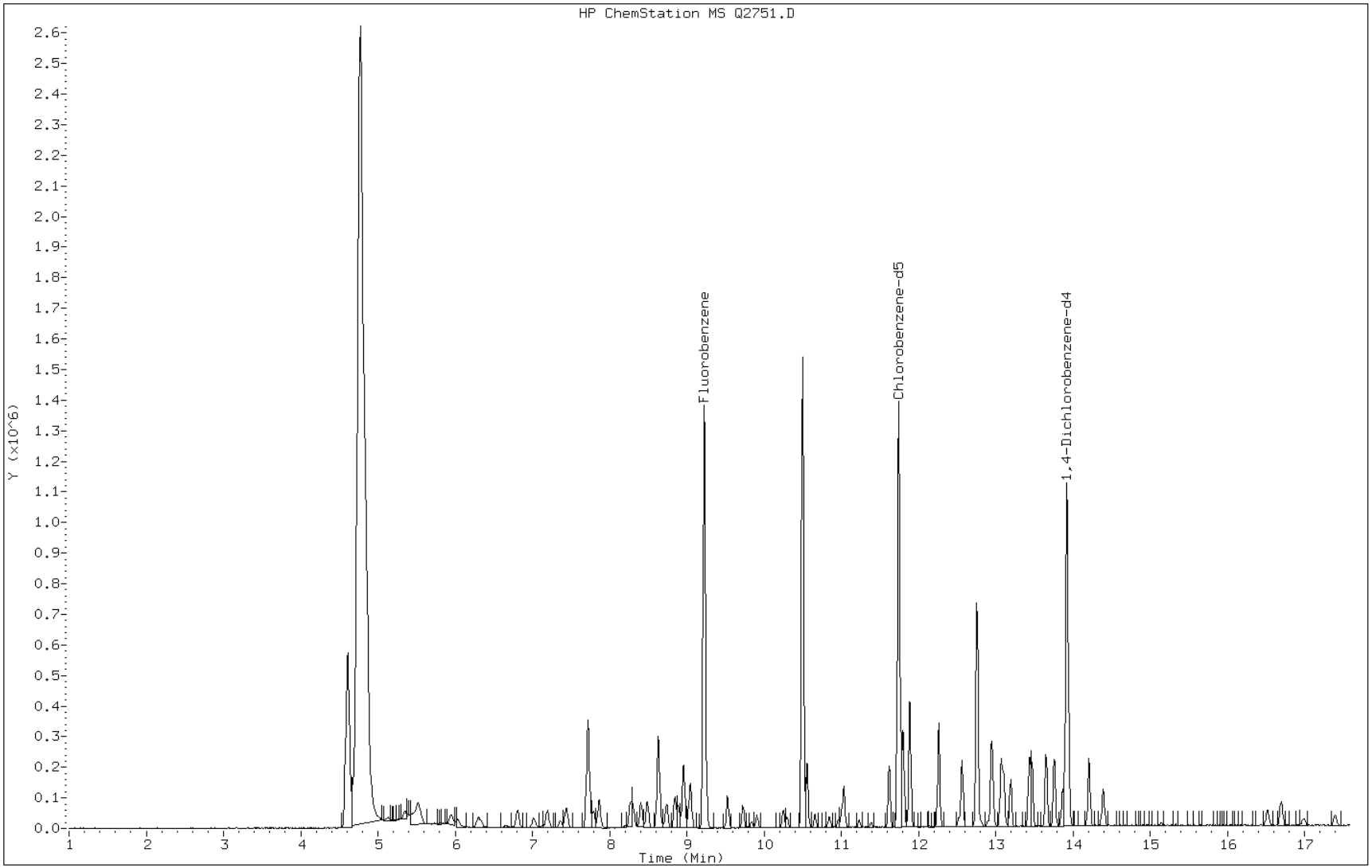
Date: 16-DEC-2011 09:38

Client ID: IC

Instrument: Q.i

Sample Info: IC,,M1.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2752.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 16-DEC-2011 10:00
Operator : MEIERG Inst ID: Q.i
Smp Info : IC,,M2.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 14:28 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 09:38 Cal File: Q2751.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	60 Fluorobenzene	96	9.226	9.226	(1.000)	1511464	12.5000	
*	95 Chlorobenzene-d5	119	11.743	11.743	(1.000)	301405	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	13.924	13.924	(1.000)	375911	12.5000	
M	1 1,2-Dichloroethene (total)	96				156607	4.00000	3.88840
M	2 Xylene (total)	106				432723	6.00000	5.69652
M	3 1,3-Dichloropropene (total)	75				134424	4.00000	3.72406
M	4 Trihalomethanes (total)	83				225306	8.00000	7.46350
	5 dichlorodifluoromethane	85	5.144	5.144	(0.558)	62800	2.00000	1.58128(a)
	7 Chloromethane	50	5.351	5.351	(0.580)	78884	2.00000	1.94409(a)
	8 Vinyl Chloride	62	5.516	5.516	(0.598)	88650	2.00000	1.88266
	10 Bromomethane	94	5.952	5.952	(0.645)	65608	2.00000	2.03339
	11 Chloroethane	64	6.037	6.037	(0.654)	51980	2.00000	1.85061(a)
	13 Trichlorofluoromethane	101	6.302	6.302	(0.683)	124984	2.00000	1.88432(aQ)
	14 Ethanol	45	6.331	6.331	(0.686)	8872	100.000	94.0933(aQM)
	19 Acrolein	56	6.660	6.660	(0.722)	25275	20.0000	18.8920(a)
	20 Acetone	43	6.774	6.774	(0.734)	19492	8.00000	8.13283(aQ)
	22 1,1-Dichloroethene	96	6.810	6.810	(0.738)	70519	2.00000	1.95643
	24 Iodomethane	142	7.024	7.024	(0.761)	98818	2.00000	1.90415
	25 Acetonitrile	41	7.039	7.039	(0.763)	20362	20.0000	19.5248(aQ)
	30 Methylene Chloride	84	7.196	7.196	(0.780)	66363	2.00000	2.04148(a)
	29 tert-Butyl alcohol	59	7.139	7.139	(0.774)	27449	40.0000	37.6221(a)
	33 trans-1,2-Dichloroethene	96	7.439	7.439	(0.806)	80349	2.00000	1.95656

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
31 Acrylonitrile	53	7.367	7.367	(0.799)	57312	20.0000	19.0873(aQ)
36 Isopropyl ether	87	7.718	7.718	(0.836)	229058	10.0000	9.25358(a)
37 1,1-Dichloroethane	63	7.789	7.789	(0.844)	132618	2.00000	1.96798
38 Chloroprene	53	7.868	7.868	(0.853)	131958	2.00000	1.91923
44 2,2-Dichloropropane	77	8.304	8.304	(0.900)	124751	2.00000	1.92743(a)
43 cis-1,2-Dichloroethene	96	8.268	8.268	(0.896)	76258	2.00000	1.93185
41 2-Butanone	43	8.197	8.197	(0.888)	26347	8.00000	7.72012(Q)
45 Propionitrile	54	8.268	8.268	(0.896)	20909	20.0000	18.7479(aQ)
47 Bromochloromethane	128	8.483	8.483	(0.919)	22974	2.00000	1.88582
46 Methacrylonitrile	41	8.411	8.411	(0.912)	111235	20.0000	19.3646
48 Chloroform	83	8.490	8.490	(0.920)	116684	2.00000	1.94790
51 1,1,1-Trichloroethane	97	8.740	8.740	(0.947)	129718	2.00000	1.92950
55 Carbon Tetrachloride	117	8.898	8.898	(0.964)	109473	2.00000	1.93144
54 1,1-Dichloropropene	75	8.847	8.847	(0.959)	122101	2.00000	1.94703
52 Isobutanol	41	8.690	8.690	(0.942)	9402	40.0000	37.3702(a)
59 Benzene	78	9.048	9.048	(0.981)	302695	2.00000	1.96424
58 1,2-Dichloroethane	62	9.019	9.019	(0.978)	56328	2.00000	1.98273
61 n-Butanol	56	9.226	9.226	(1.000)	19281	60.0000	74.1695
64 Trichloroethene	95	9.527	9.527	(1.033)	84137	2.00000	1.98009
69 1,2-Dichloropropane	63	9.727	9.727	(1.054)	58147	2.00000	1.88456
70 1,4-Dioxane	88	9.777	9.777	(1.060)	8086	100.000	83.0820(a)
71 Dibromomethane	93	9.841	9.841	(1.067)	21252	2.00000	1.88541
72 Bromodichloromethane	83	9.906	9.906	(1.074)	64849	2.00000	1.90740
79 cis-1,3-Dichloropropene	75	10.249	10.249	(1.111)	77683	2.00000	1.87602
80 4-Methyl-2-pentanone	43	10.299	10.299	(1.116)	54970	8.00000	7.08238
83 Toluene	91	10.556	10.556	(1.144)	333314	2.00000	1.93056
86 trans-1,3-Dichloropropene	75	10.656	10.656	(1.155)	56741	2.00000	1.84804(a)
87 1,1,2-Trichloroethane	97	10.850	10.850	(1.176)	27936	2.00000	1.91046
90 Tetrachloroethene	164	11.035	11.035	(0.940)	66667	2.00000	1.94803
89 1,3-Dichloropropane	76	11.007	11.007	(0.937)	52639	2.00000	1.94656
88 2-Hexanone	43	10.964	10.964	(0.934)	39335	8.00000	7.70360
91 Dibromochloromethane	129	11.236	11.236	(0.957)	31129	2.00000	1.86574
93 1,2-Dibromoethane	107	11.386	11.386	(0.970)	24869	2.00000	1.89733
94 1-Chlorohexane	91	11.622	11.622	(0.990)	124024	2.00000	1.90733
96 Chlorobenzene	112	11.772	11.772	(1.002)	189562	2.00000	1.95969
98 Ethylbenzene	106	11.800	11.800	(1.005)	121597	2.00000	1.92568
97 1,1,1,2-Tetrachloroethane	131	11.808	11.808	(1.005)	52086	2.00000	1.87714
99 m and p-Xylene	106	11.886	11.886	(1.012)	299289	4.00000	3.80144
101 o-Xylene	106	12.265	12.265	(1.044)	133434	2.00000	1.89508
102 Styrene	104	12.265	12.265	(1.044)	174654	2.00000	1.76126
103 Bromoform	173	12.523	12.523	(1.066)	12644	2.00000	1.74245
104 isopropyl benzene	105	12.566	12.566	(0.902)	353605	2.00000	1.98450
106 Cyclohexanone	55	12.744	12.744	(0.915)	17309	80.0000	72.0892(a)
108 1,1,2,2-Tetrachloroethane	83	12.809	12.809	(0.920)	26239	2.00000	1.98384(Q)
111 Bromobenzene	156	12.966	12.966	(0.931)	61164	2.00000	1.99133
112 n-Propylbenzene	120	12.945	12.945	(0.930)	108393	2.00000	1.94636
110 1,2,3-Trichloropropane	110	12.902	12.902	(0.927)	6785	2.00000	1.84218
113 2-Chlorotoluene	126	13.109	13.109	(0.941)	82870	2.00000	1.96133
114 1,3,5-Trimethylbenzene	105	13.073	13.073	(0.939)	301914	2.00000	1.95756
115 4-Chlorotoluene	126	13.202	13.202	(0.948)	81123	2.00000	1.97711
116 tert-Butylbenzene	119	13.438	13.438	(0.965)	309065	2.00000	1.95684
117 1,2,4-Trimethylbenzene	105	13.474	13.474	(0.968)	292563	2.00000	1.95805
118 sec-Butylbenzene	134	13.652	13.652	(0.980)	87370	2.00000	1.94512
119 4-Isopropyltoluene	119	13.760	13.760	(0.988)	347022	2.00000	1.95609

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
120 1,3-Dichlorobenzene	146	13.867	13.867	(0.996)	131538	2.00000	1.98855
122 1,4-dichlorobenzene	146	13.953	13.953	(1.002)	126141	2.00000	1.98781
124 n-Butylbenzene	91	14.210	14.210	(1.021)	329800	2.00000	1.94906
125 1,2-Dichlorobenzene	146	14.403	14.403	(1.034)	98973	2.00000	1.96333
126 1,2-Dibromo-3-chloropropane	157	15.326	15.326	(1.101)	2398	2.00000	2.03727(Q)
127 1,2,4-Trichlorobenzene	180	16.520	16.520	(1.186)	57541	2.00000	1.86401
128 Hexachlorobutadiene	225	16.705	16.705	(1.200)	48428	2.00000	1.93845
129 Naphthalene	128	16.991	16.991	(1.220)	63140	2.00000	1.71348(Q)
130 1,2,3-Trichlorobenzene	180	17.399	17.399	(1.250)	42190	2.00000	1.84389

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: Q2752.D

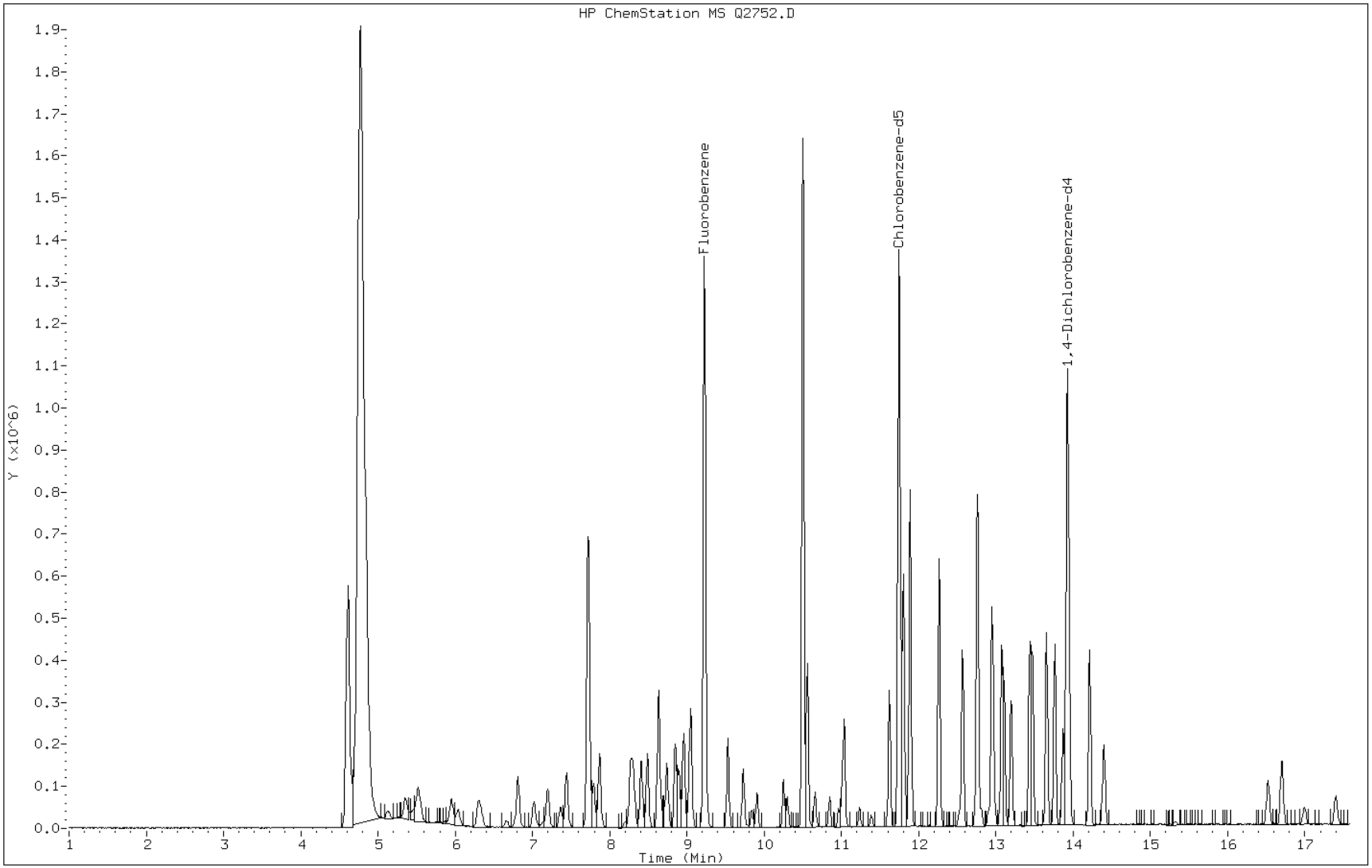
Date: 16-DEC-2011 10:00

Client ID: IC

Instrument: Q.i

Sample Info: IC,,M2.0

Operator: MEIERG



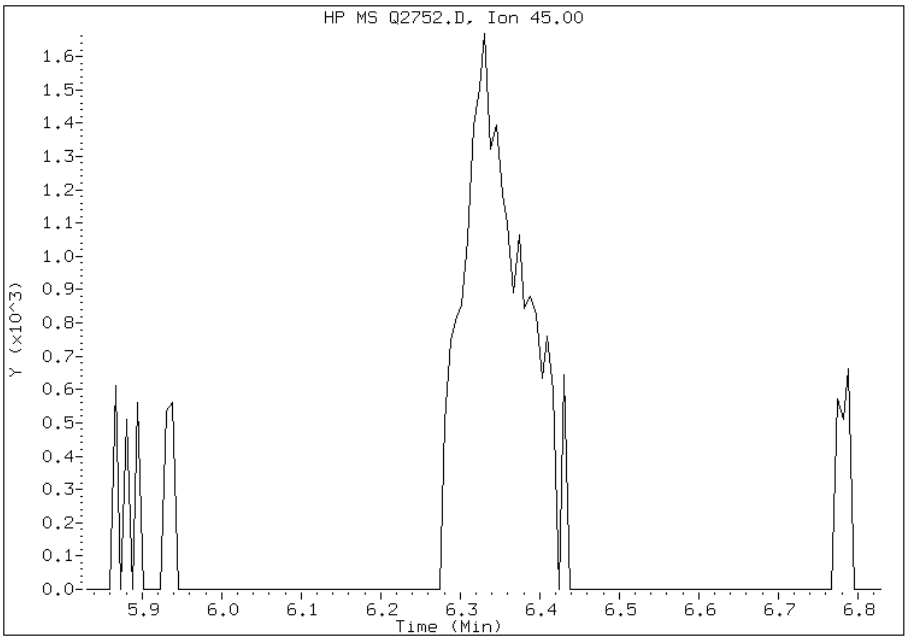
Manual Integration Report

Data File: Q2752.D
Inj. Date and Time: 16-DEC-2011 10:00
Instrument ID: Q.i
Client ID: IC
Compound: 14 Ethanol
CAS #: 64-17-5
Report Date: 12/16/2011

Processing Integration Results

Not Detected

Expected RT: 6.33



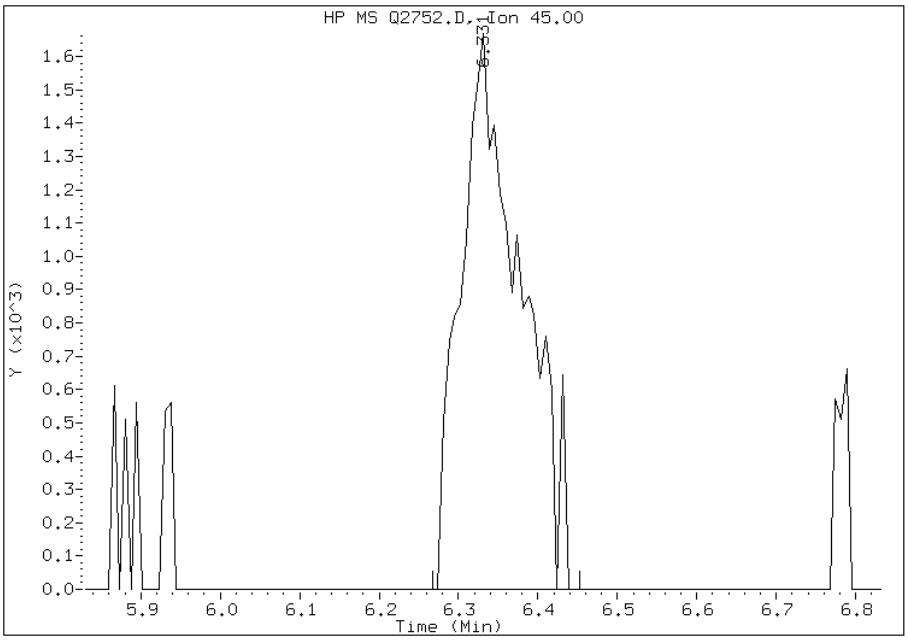
Manual Integration Results

RT: 6.33

Response: 8872

Amount: 94

Conc: 94



Manually Integrated By: meierg
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2753.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 16-DEC-2011 10:22
Operator : MEIERG Inst ID: Q.i
Smp Info : IC,,M5.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 14:28 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 10:00 Cal File: Q2752.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 60	Fluorobenzene	96	9.227	9.227	(1.000)	1530348	12.5000	
* 95	Chlorobenzene-d5	119	11.744	11.744	(1.000)	303774	12.5000	
* 121	1,4-Dichlorobenzene-d4	152	13.924	13.924	(1.000)	396411	12.5000	
M 1	1,2-Dichloroethene (total)	96				398148	10.0000	9.76434
M 2	Xylene (total)	106				1092184	15.0000	14.2642
M 3	1,3-Dichloropropene (total)	75				341545	10.0000	9.33701
M 4	Trihalomethanes (total)	83				578759	20.0000	19.1176
5	dichlorodifluoromethane	85	5.137	5.137	(0.557)	208812	5.00000	5.19293
7	Chloromethane	50	5.359	5.359	(0.581)	211457	5.00000	5.14704
8	Vinyl Chloride	62	5.523	5.523	(0.599)	240170	5.00000	5.03756
10	Bromomethane	94	5.952	5.952	(0.645)	166174	5.00000	5.08669
11	Chloroethane	64	6.038	6.038	(0.654)	142848	5.00000	5.02296
13	Trichlorofluoromethane	101	6.310	6.310	(0.684)	328555	5.00000	4.89232
14	Ethanol	45	6.338	6.338	(0.687)	20958	250.000	219.530(aQ)
19	Acrolein	56	6.667	6.667	(0.723)	63479	50.0000	46.8625
20	Acetone	43	6.774	6.774	(0.734)	47029	20.0000	19.3802
22	1,1-Dichloroethene	96	6.810	6.810	(0.738)	176281	5.00000	4.83026
24	Iodomethane	142	7.017	7.017	(0.761)	255924	5.00000	4.87062
25	Acetonitrile	41	7.032	7.032	(0.762)	50380	50.0000	47.7125
30	Methylene Chloride	84	7.196	7.196	(0.780)	154215	5.00000	4.68548(a)
29	tert-Butyl alcohol	59	7.139	7.139	(0.774)	70097	100.000	94.8906
33	trans-1,2-Dichloroethene	96	7.439	7.439	(0.806)	203566	5.00000	4.89581

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
31 Acrylonitrile	53	7.368	7.368	(0.799)	145601	50.0000	47.8929
36 Isopropyl ether	87	7.725	7.725	(0.837)	594586	25.0000	23.7239
37 1,1-Dichloroethane	63	7.797	7.797	(0.845)	331218	5.00000	4.85445
38 Chloroprene	53	7.868	7.868	(0.853)	336574	5.00000	4.83481
44 2,2-Dichloropropane	77	8.304	8.304	(0.900)	315974	5.00000	4.82162(a)
43 cis-1,2-Dichloroethene	96	8.269	8.269	(0.896)	194582	5.00000	4.86853
41 2-Butanone	43	8.197	8.197	(0.888)	65816	20.0000	19.0472
45 Propionitrile	54	8.269	8.269	(0.896)	53846	50.0000	47.6849
47 Bromochloromethane	128	8.490	8.490	(0.920)	60670	5.00000	4.91865
46 Methacrylonitrile	41	8.405	8.405	(0.911)	273184	50.0000	46.9712
48 Chloroform	83	8.490	8.490	(0.920)	296499	5.00000	4.88862
51 1,1,1-Trichloroethane	97	8.741	8.741	(0.947)	331174	5.00000	4.86529
55 Carbon Tetrachloride	117	8.898	8.898	(0.964)	282249	5.00000	4.91828
54 1,1-Dichloropropene	75	8.848	8.848	(0.959)	310354	5.00000	4.88786
52 Isobutanol	41	8.683	8.683	(0.941)	25890	100.000	101.635(aQ)
59 Benzene	78	9.048	9.048	(0.981)	750009	5.00000	4.80688
58 1,2-Dichloroethane	62	9.027	9.027	(0.978)	141252	5.00000	4.91069
61 n-Butanol	56	9.227	9.227	(1.000)	37578	150.000	142.770
64 Trichloroethene	95	9.527	9.527	(1.033)	206821	5.00000	4.80729
69 1,2-Dichloropropane	63	9.727	9.727	(1.054)	147941	5.00000	4.73564
70 1,4-Dioxane	88	9.777	9.777	(1.060)	22782	250.000	231.192
71 Dibromomethane	93	9.842	9.842	(1.067)	53855	5.00000	4.71888
72 Bromodichloromethane	83	9.906	9.906	(1.074)	167363	5.00000	4.86190
79 cis-1,3-Dichloropropene	75	10.249	10.249	(1.111)	198378	5.00000	4.73164
80 4-Methyl-2-pentanone	43	10.299	10.299	(1.116)	148216	20.0000	18.8606
83 Toluene	91	10.557	10.557	(1.144)	829135	5.00000	4.74311
86 trans-1,3-Dichloropropene	75	10.664	10.664	(1.156)	143167	5.00000	4.60537
87 1,1,2-Trichloroethane	97	10.850	10.850	(1.176)	71744	5.00000	4.84581
90 Tetrachloroethene	164	11.036	11.036	(0.940)	165009	5.00000	4.78402
89 1,3-Dichloropropane	76	11.007	11.007	(0.937)	132842	5.00000	4.87410
88 2-Hexanone	43	10.964	10.964	(0.934)	95163	20.0000	18.4919
91 Dibromochloromethane	129	11.236	11.236	(0.957)	82097	5.00000	4.88218
93 1,2-Dibromoethane	107	11.386	11.386	(0.970)	63812	5.00000	4.83044
94 1-Chlorohexane	91	11.622	11.622	(0.990)	305818	5.00000	4.66641
96 Chlorobenzene	112	11.772	11.772	(1.002)	471776	5.00000	4.83918
98 Ethylbenzene	106	11.801	11.801	(1.005)	300785	5.00000	4.72625
97 1,1,1,2-Tetrachloroethane	131	11.808	11.808	(1.005)	134213	5.00000	4.79923
99 m and p-Xylene	106	11.894	11.894	(1.013)	756487	10.0000	9.53365
101 o-Xylene	106	12.266	12.266	(1.044)	335697	5.00000	4.73051
102 Styrene	104	12.266	12.266	(1.044)	460630	5.00000	4.60889
103 Bromoform	173	12.516	12.516	(1.066)	32800	5.00000	4.48487
104 isopropyl benzene	105	12.566	12.566	(0.902)	894168	5.00000	4.75873
106 Cyclohexanone	55	12.745	12.745	(0.915)	47663	200.000	188.243
108 1,1,2,2-Tetrachloroethane	83	12.809	12.809	(0.920)	66682	5.00000	4.78086
111 Bromobenzene	156	12.966	12.966	(0.931)	153292	5.00000	4.73268
112 n-Propylbenzene	120	12.952	12.952	(0.930)	271281	5.00000	4.61934
110 1,2,3-Trichloropropane	110	12.902	12.902	(0.927)	19061	5.00000	4.90757
113 2-Chlorotoluene	126	13.109	13.109	(0.941)	210422	5.00000	4.72262
114 1,3,5-Trimethylbenzene	105	13.074	13.074	(0.939)	767012	5.00000	4.71600
115 4-Chlorotoluene	126	13.195	13.195	(0.948)	202521	5.00000	4.68054
116 tert-Butylbenzene	119	13.438	13.438	(0.965)	787269	5.00000	4.72682
117 1,2,4-Trimethylbenzene	105	13.474	13.474	(0.968)	747595	5.00000	4.74470
118 sec-Butylbenzene	134	13.660	13.660	(0.981)	220690	5.00000	4.65915
119 4-Isopropyltoluene	119	13.760	13.760	(0.988)	880715	5.00000	4.70768

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
120 1,3-Dichlorobenzene	146	13.867	13.867	(0.996)	332624	5.00000	4.76846
122 1,4-dichlorobenzene	146	13.953	13.953	(1.002)	320386	5.00000	4.78776
124 n-Butylbenzene	91	14.210	14.210	(1.021)	835809	5.00000	4.68405
125 1,2-Dichlorobenzene	146	14.396	14.396	(1.034)	254523	5.00000	4.78788
126 1,2-Dibromo-3-chloropropane	157	15.326	15.326	(1.101)	8026	5.00000	4.69254
127 1,2,4-Trichlorobenzene	180	16.527	16.527	(1.187)	148467	5.00000	4.56080
128 Hexachlorobutadiene	225	16.699	16.699	(1.199)	118938	5.00000	4.51458
129 Naphthalene	128	16.992	16.992	(1.220)	180551	5.00000	4.64636
130 1,2,3-Trichlorobenzene	180	17.399	17.399	(1.250)	112271	5.00000	4.65300

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: Q2753.D

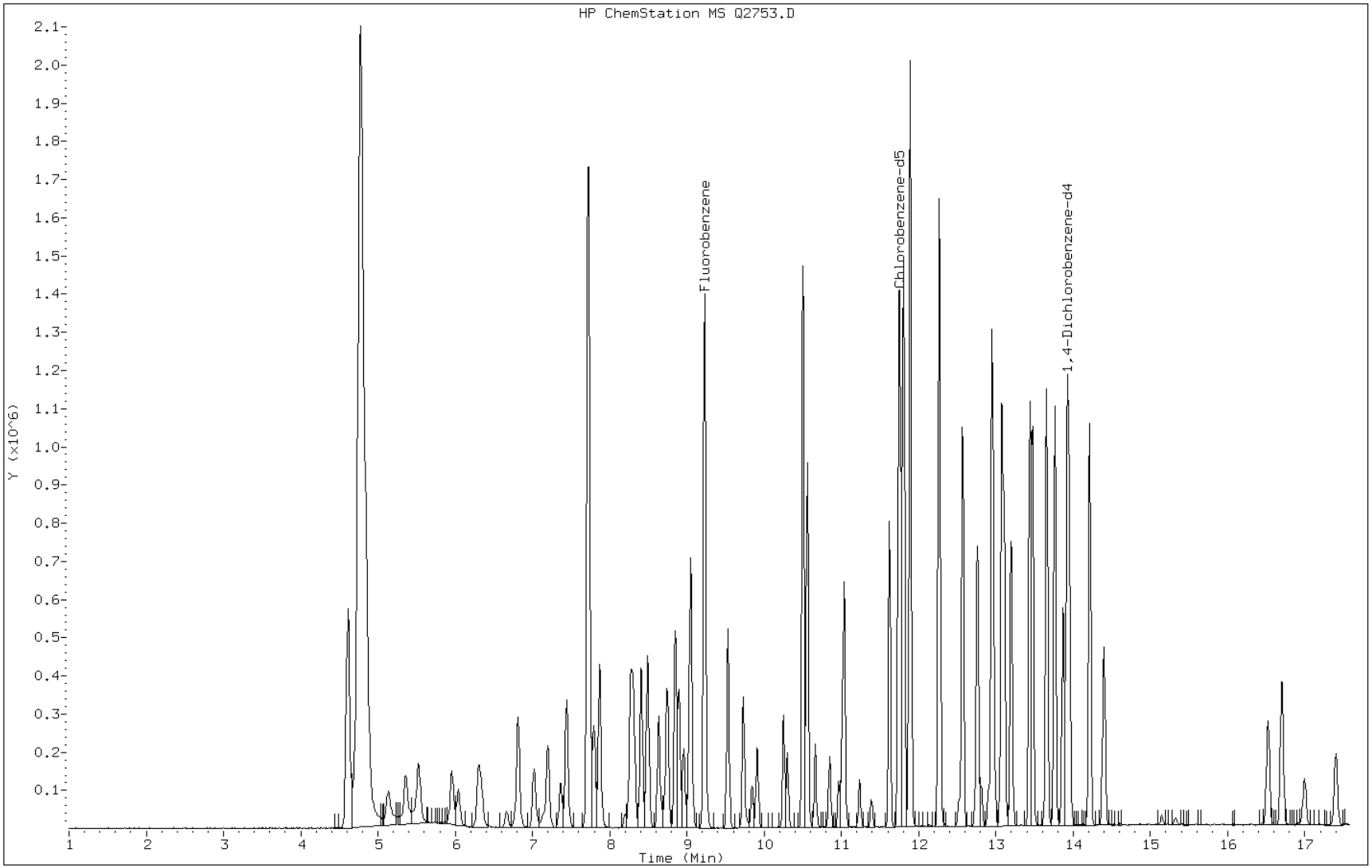
Date: 16-DEC-2011 10:22

Client ID: IC

Instrument: Q.i

Sample Info: IC,,M5.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2754.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 16-DEC-2011 10:44
Operator : MEIERG Inst ID: Q.i
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Misc Info :
Comment :
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Meth Date : 16-Dec-2011 14:28 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 10:22 Cal File: Q2753.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	60 Fluorobenzene	96	9.227	9.227	(1.000)	1552676	12.5000	
*	95 Chlorobenzene-d5	119	11.744	11.744	(1.000)	321883	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	13.925	13.925	(1.000)	424401	12.5000	
M	1 1,2-Dichloroethene (total)	96				881191	20.0000	21.2987
M	2 Xylene (total)	106				2575650	30.0000	31.7523
M	3 1,3-Dichloropropene (total)	75				798997	20.0000	21.5529
M	4 Trihalomethanes (total)	83				1318717	40.0000	43.1923
	5 dichlorodifluoromethane	85	5.130	5.130	(0.556)	466867	10.0000	11.4435
	7 Chloromethane	50	5.359	5.359	(0.581)	455130	10.0000	10.9189(Q)
	8 Vinyl Chloride	62	5.523	5.523	(0.599)	523789	10.0000	10.8285
	10 Bromomethane	94	5.952	5.952	(0.645)	368525	10.0000	11.1186
	11 Chloroethane	64	6.038	6.038	(0.654)	310488	10.0000	10.7607
	13 Trichlorofluoromethane	101	6.303	6.303	(0.683)	729164	10.0000	10.7014
	14 Ethanol	45	6.324	6.324	(0.685)	52031	500.000	537.176(Q)
	19 Acrolein	56	6.660	6.660	(0.722)	146118	100.000	106.318
	20 Acetone	43	6.767	6.767	(0.733)	97231	40.0000	39.4918
	22 1,1-Dichloroethene	96	6.810	6.810	(0.738)	393010	10.0000	10.6140
	24 Iodomethane	142	7.018	7.018	(0.761)	572506	10.0000	10.7390
	25 Acetonitrile	41	7.025	7.025	(0.761)	106610	100.000	99.5134(Q)
	30 Methylene Chloride	84	7.196	7.196	(0.780)	326320	10.0000	9.77194
	29 tert-Butyl alcohol	59	7.139	7.139	(0.774)	156535	200.000	208.855
	33 trans-1,2-Dichloroethene	96	7.440	7.440	(0.806)	451844	10.0000	10.7107

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
31 Acrylonitrile	53	7.368	7.368	(0.799)	328747	100.000	106.580
36 Isopropyl ether	87	7.726	7.726	(0.837)	1353283	50.0000	53.2194
37 1,1-Dichloroethane	63	7.797	7.797	(0.845)	737155	10.0000	10.6486
38 Chloroprene	53	7.869	7.869	(0.853)	761686	10.0000	10.7841
44 2,2-Dichloropropane	77	8.305	8.305	(0.900)	693327	10.0000	10.4277
43 cis-1,2-Dichloroethene	96	8.269	8.269	(0.896)	429347	10.0000	10.5880
41 2-Butanone	43	8.205	8.205	(0.889)	149581	40.0000	42.6664
45 Propionitrile	54	8.269	8.269	(0.896)	121407	100.000	105.969
47 Bromochloromethane	128	8.491	8.491	(0.920)	135490	10.0000	10.8265
46 Methacrylonitrile	41	8.412	8.412	(0.912)	640472	100.000	108.539
48 Chloroform	83	8.491	8.491	(0.920)	660834	10.0000	10.7390
51 1,1,1-Trichloroethane	97	8.741	8.741	(0.947)	735552	10.0000	10.6506
55 Carbon Tetrachloride	117	8.898	8.898	(0.964)	626388	10.0000	10.7580
54 1,1-Dichloropropene	75	8.848	8.848	(0.959)	686293	10.0000	10.6532
52 Isobutanol	41	8.691	8.691	(0.942)	58602	200.000	226.743
59 Benzene	78	9.056	9.056	(0.981)	1694798	10.0000	10.7059
58 1,2-Dichloroethane	62	9.027	9.027	(0.978)	313657	10.0000	10.7476
61 n-Butanol	56	9.227	9.227	(1.000)	76705	300.000	287.234
64 Trichloroethene	95	9.527	9.527	(1.033)	462928	10.0000	10.6054
69 1,2-Dichloropropane	63	9.728	9.728	(1.054)	335369	10.0000	10.5809
70 1,4-Dioxane	88	9.785	9.785	(1.060)	53142	500.000	531.530
71 Dibromomethane	93	9.842	9.842	(1.067)	120978	10.0000	10.4479
72 Bromodichloromethane	83	9.914	9.914	(1.074)	380480	10.0000	10.8940
79 cis-1,3-Dichloropropene	75	10.250	10.250	(1.111)	461107	10.0000	10.8400
80 4-Methyl-2-pentanone	43	10.300	10.300	(1.116)	348662	40.0000	43.7296
83 Toluene	91	10.564	10.564	(1.145)	1901143	10.0000	10.7192
86 trans-1,3-Dichloropropene	75	10.664	10.664	(1.156)	337890	10.0000	10.7129
87 1,1,2-Trichloroethane	97	10.850	10.850	(1.176)	162886	10.0000	10.8436
90 Tetrachloroethene	164	11.036	11.036	(0.940)	385419	10.0000	10.5456
89 1,3-Dichloropropane	76	11.007	11.007	(0.937)	309213	10.0000	10.7070
88 2-Hexanone	43	10.965	10.965	(0.934)	230105	40.0000	42.1981
91 Dibromochloromethane	129	11.236	11.236	(0.957)	195247	10.0000	10.9578
93 1,2-Dibromoethane	107	11.386	11.386	(0.970)	150913	10.0000	10.7811
94 1-Chlorohexane	91	11.622	11.622	(0.990)	732014	10.0000	10.5412
96 Chlorobenzene	112	11.773	11.773	(1.002)	1096233	10.0000	10.6118
98 Ethylbenzene	106	11.808	11.808	(1.005)	715911	10.0000	10.6163
97 1,1,1,2-Tetrachloroethane	131	11.808	11.808	(1.005)	319402	10.0000	10.7787
99 m and p-Xylene	106	11.894	11.894	(1.013)	1779529	20.0000	21.1649
101 o-Xylene	106	12.266	12.266	(1.044)	796121	10.0000	10.5875
102 Styrene	104	12.266	12.266	(1.044)	1146576	10.0000	10.8268
103 Bromoform	173	12.523	12.523	(1.066)	82156	10.0000	10.6015
104 isopropyl benzene	105	12.566	12.566	(0.902)	2118506	10.0000	10.5310
106 Cyclohexanone	55	12.745	12.745	(0.915)	112547	400.000	415.184
108 1,1,2,2-Tetrachloroethane	83	12.809	12.809	(0.920)	156520	10.0000	10.4818
111 Bromobenzene	156	12.967	12.967	(0.931)	370758	10.0000	10.6917
112 n-Propylbenzene	120	12.952	12.952	(0.930)	655087	10.0000	10.4190
110 1,2,3-Trichloropropane	110	12.902	12.902	(0.927)	44850	10.0000	10.7858
113 2-Chlorotoluene	126	13.110	13.110	(0.941)	500708	10.0000	10.4965
114 1,3,5-Trimethylbenzene	105	13.074	13.074	(0.939)	1836108	10.0000	10.5448
115 4-Chlorotoluene	126	13.203	13.203	(0.948)	485694	10.0000	10.4847
116 tert-Butylbenzene	119	13.439	13.439	(0.965)	1871846	10.0000	10.4975
117 1,2,4-Trimethylbenzene	105	13.474	13.474	(0.968)	1786584	10.0000	10.5910
118 sec-Butylbenzene	134	13.660	13.660	(0.981)	531010	10.0000	10.4712
119 4-Isopropyltoluene	119	13.760	13.760	(0.988)	2124927	10.0000	10.6093

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
120 1,3-Dichlorobenzene	146	13.875	13.875	(0.996)	798695	10.0000	10.6948
122 1,4-dichlorobenzene	146	13.953	13.953	(1.002)	760009	10.0000	10.6083
124 n-Butylbenzene	91	14.211	14.211	(1.021)	2041338	10.0000	10.6856
125 1,2-Dichlorobenzene	146	14.397	14.397	(1.034)	610090	10.0000	10.7196
126 1,2-Dibromo-3-chloropropane	157	15.333	15.333	(1.101)	21030	10.0000	10.3038
127 1,2,4-Trichlorobenzene	180	16.520	16.520	(1.186)	369323	10.0000	10.5971
128 Hexachlorobutadiene	225	16.699	16.699	(1.199)	301658	10.0000	10.6950
129 Naphthalene	128	16.999	16.999	(1.221)	455470	10.0000	10.9482
130 1,2,3-Trichlorobenzene	180	17.400	17.400	(1.250)	278106	10.0000	10.7658

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: Q2754.D

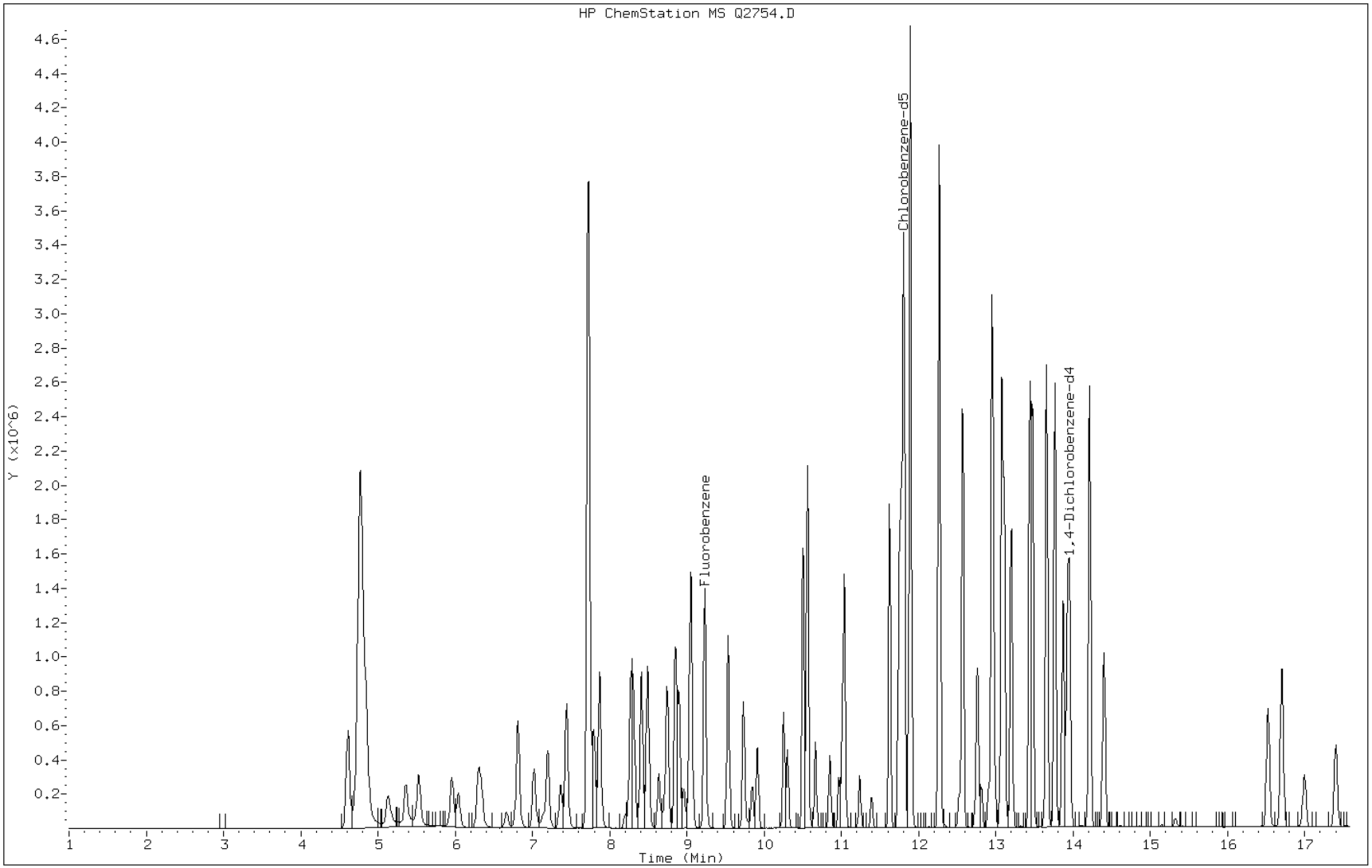
Date: 16-DEC-2011 10:44

Client ID: IC

Instrument: Q.i

Sample Info: IC,,M10

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2755.D
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Inj Date : 16-DEC-2011 11:06
Operator : MEIERG Inst ID: Q.i
Smp Info : IC,,M30
Misc Info :
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Meth Date : 16-Dec-2011 14:28 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 10:44 Cal File: Q2754.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	60 Fluorobenzene	96	9.224	9.224	(1.000)	1558980	12.5000	
*	95 Chlorobenzene-d5	119	11.741	11.741	(1.000)	335605	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	13.922	13.922	(1.000)	437785	12.5000	
M	1 1,2-Dichloroethene (total)	96				2638275	60.0000	63.5152
M	2 Xylene (total)	106				7864139	90.0000	93.0086
M	3 1,3-Dichloropropene (total)	75				2424265	60.0000	65.1204
M	4 Trihalomethanes (total)	83				3995942	120.000	131.147
	5 dichlorodifluoromethane	85	5.135	5.135	(0.557)	1336281	30.0000	32.6215
	7 Chloromethane	50	5.371	5.371	(0.582)	1290658	30.0000	30.8387(Q)
	8 Vinyl Chloride	62	5.535	5.535	(0.600)	1484717	30.0000	30.5699
	10 Bromomethane	94	5.957	5.957	(0.646)	1009388	30.0000	30.3305
	11 Chloroethane	64	6.043	6.043	(0.655)	880978	30.0000	30.4088
	13 Trichlorofluoromethane	101	6.300	6.300	(0.683)	2108034	30.0000	30.8130
	14 Ethanol	45	6.336	6.336	(0.687)	156212	1500.00	1606.23
	19 Acrolein	56	6.665	6.665	(0.723)	438300	300.000	317.626
	20 Acetone	43	6.779	6.779	(0.735)	275693	120.000	111.524
	22 1,1-Dichloroethene	96	6.815	6.815	(0.739)	1170257	30.0000	31.4772
	24 Iodomethane	142	7.022	7.022	(0.761)	1736844	30.0000	32.4477
	25 Acetonitrile	41	7.037	7.037	(0.763)	313126	300.000	291.100
	30 Methylene Chloride	84	7.201	7.201	(0.781)	958705	30.0000	28.5932
	29 tert-Butyl alcohol	59	7.144	7.144	(0.774)	489543	600.000	650.526
	33 trans-1,2-Dichloroethene	96	7.444	7.444	(0.807)	1347453	30.0000	31.8114

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
31 Acrylonitrile	53	7.365	7.365	(0.798)	978396	300.000	315.916
36 Isopropyl ether	87	7.723	7.723	(0.837)	4113771	150.000	161.124
37 1,1-Dichloroethane	63	7.794	7.794	(0.845)	2175576	30.0000	31.3004
38 Chloroprene	53	7.866	7.866	(0.853)	2236260	30.0000	31.5334
44 2,2-Dichloropropane	77	8.302	8.302	(0.900)	2038306	30.0000	30.5324
43 cis-1,2-Dichloroethene	96	8.266	8.266	(0.896)	1290822	30.0000	31.7038
41 2-Butanone	43	8.195	8.195	(0.888)	438957	120.000	124.702
45 Propionitrile	54	8.266	8.266	(0.896)	364395	300.000	316.774
47 Bromochloromethane	128	8.488	8.488	(0.920)	415611	30.0000	33.0756
46 Methacrylonitrile	41	8.409	8.409	(0.912)	1885335	300.000	318.210
48 Chloroform	83	8.488	8.488	(0.920)	1957221	30.0000	31.6776
51 1,1,1-Trichloroethane	97	8.738	8.738	(0.947)	2181849	30.0000	31.4649
55 Carbon Tetrachloride	117	8.896	8.896	(0.964)	1890083	30.0000	32.3304
54 1,1-Dichloropropene	75	8.846	8.846	(0.959)	2022889	30.0000	31.2740
52 Isobutanol	41	8.688	8.688	(0.942)	163308	600.000	629.318
59 Benzene	78	9.053	9.053	(0.981)	4973813	30.0000	31.2922
58 1,2-Dichloroethane	62	9.024	9.024	(0.978)	912872	30.0000	31.1535
61 n-Butanol	56	9.224	9.224	(1.000)	224244	900.000	836.323
64 Trichloroethene	95	9.532	9.532	(1.033)	1396423	30.0000	31.8620
69 1,2-Dichloropropane	63	9.732	9.732	(1.055)	992727	30.0000	31.1939
70 1,4-Dioxane	88	9.782	9.782	(1.060)	165713	1500.00	1650.77
71 Dibromomethane	93	9.839	9.839	(1.067)	369619	30.0000	31.7919
72 Bromodichloromethane	83	9.911	9.911	(1.074)	1152300	30.0000	32.8595
79 cis-1,3-Dichloropropene	75	10.247	10.247	(1.111)	1400225	30.0000	32.7843
80 4-Methyl-2-pentanone	43	10.297	10.297	(1.116)	1043180	120.000	130.308
83 Toluene	91	10.562	10.562	(1.145)	5634097	30.0000	31.6382
86 trans-1,3-Dichloropropene	75	10.662	10.662	(1.156)	1024040	30.0000	32.3362
87 1,1,2-Trichloroethane	97	10.848	10.848	(1.176)	492700	30.0000	32.6673
90 Tetrachloroethene	164	11.033	11.033	(0.940)	1174251	30.0000	30.8155
89 1,3-Dichloropropane	76	11.005	11.005	(0.937)	922305	30.0000	30.6306
88 2-Hexanone	43	10.962	10.962	(0.934)	679942	120.000	119.594
91 Dibromochloromethane	129	11.234	11.234	(0.957)	616236	30.0000	33.1708
93 1,2-Dibromoethane	107	11.384	11.384	(0.970)	460827	30.0000	31.5751
94 1-Chlorohexane	91	11.620	11.620	(0.990)	2208015	30.0000	30.4961
96 Chlorobenzene	112	11.770	11.770	(1.002)	3317688	30.0000	30.8030
98 Ethylbenzene	106	11.806	11.806	(1.005)	2200084	30.0000	31.2912
97 1,1,1,2-Tetrachloroethane	131	11.806	11.806	(1.005)	1002687	30.0000	32.4537
99 m and p-Xylene	106	11.891	11.891	(1.013)	5415320	60.0000	61.7738
101 o-Xylene	106	12.263	12.263	(1.044)	2448819	30.0000	31.2348
102 Styrene	104	12.263	12.263	(1.044)	3609710	30.0000	32.6918
103 Bromoform	173	12.521	12.521	(1.066)	270185	30.0000	33.4395
104 isopropyl benzene	105	12.571	12.571	(0.903)	6344000	30.0000	30.5717
106 Cyclohexanone	55	12.742	12.742	(0.915)	352997	1200.00	1262.39
108 1,1,2,2-Tetrachloroethane	83	12.807	12.807	(0.920)	473778	30.0000	30.7580
111 Bromobenzene	156	12.971	12.971	(0.932)	1147949	30.0000	32.0919
112 n-Propylbenzene	120	12.950	12.950	(0.930)	2025862	30.0000	31.2360
110 1,2,3-Trichloropropane	110	12.907	12.907	(0.927)	133176	30.0000	31.0478
113 2-Chlorotoluene	126	13.107	13.107	(0.941)	1512289	30.0000	30.7335
114 1,3,5-Trimethylbenzene	105	13.071	13.071	(0.939)	5584901	30.0000	31.0937
115 4-Chlorotoluene	126	13.200	13.200	(0.948)	1480644	30.0000	30.9857
116 tert-Butylbenzene	119	13.436	13.436	(0.965)	5707807	30.0000	31.0313
117 1,2,4-Trimethylbenzene	105	13.472	13.472	(0.968)	5399594	30.0000	31.0305
118 sec-Butylbenzene	134	13.658	13.658	(0.981)	1630671	30.0000	31.1727
119 4-Isopropyltoluene	119	13.765	13.765	(0.989)	6456766	30.0000	31.2516

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
120 1,3-Dichlorobenzene	146	13.872	13.872	(0.996)	2466733	30.0000	32.0207
122 1,4-dichlorobenzene	146	13.951	13.951	(1.002)	2338738	30.0000	31.6464
124 n-Butylbenzene	91	14.208	14.208	(1.021)	6123923	30.0000	31.0763
125 1,2-Dichlorobenzene	146	14.401	14.401	(1.034)	1875977	30.0000	31.9542
126 1,2-Dibromo-3-chloropropane	157	15.324	15.324	(1.101)	66014	30.0000	29.6884
127 1,2,4-Trichlorobenzene	180	16.525	16.525	(1.187)	1150481	30.0000	32.0019
128 Hexachlorobutadiene	225	16.704	16.704	(1.200)	910830	30.0000	31.3054
129 Naphthalene	128	16.990	16.990	(1.220)	1418820	30.0000	33.0617
130 1,2,3-Trichlorobenzene	180	17.397	17.397	(1.250)	850956	30.0000	31.9343

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: Q2755.D

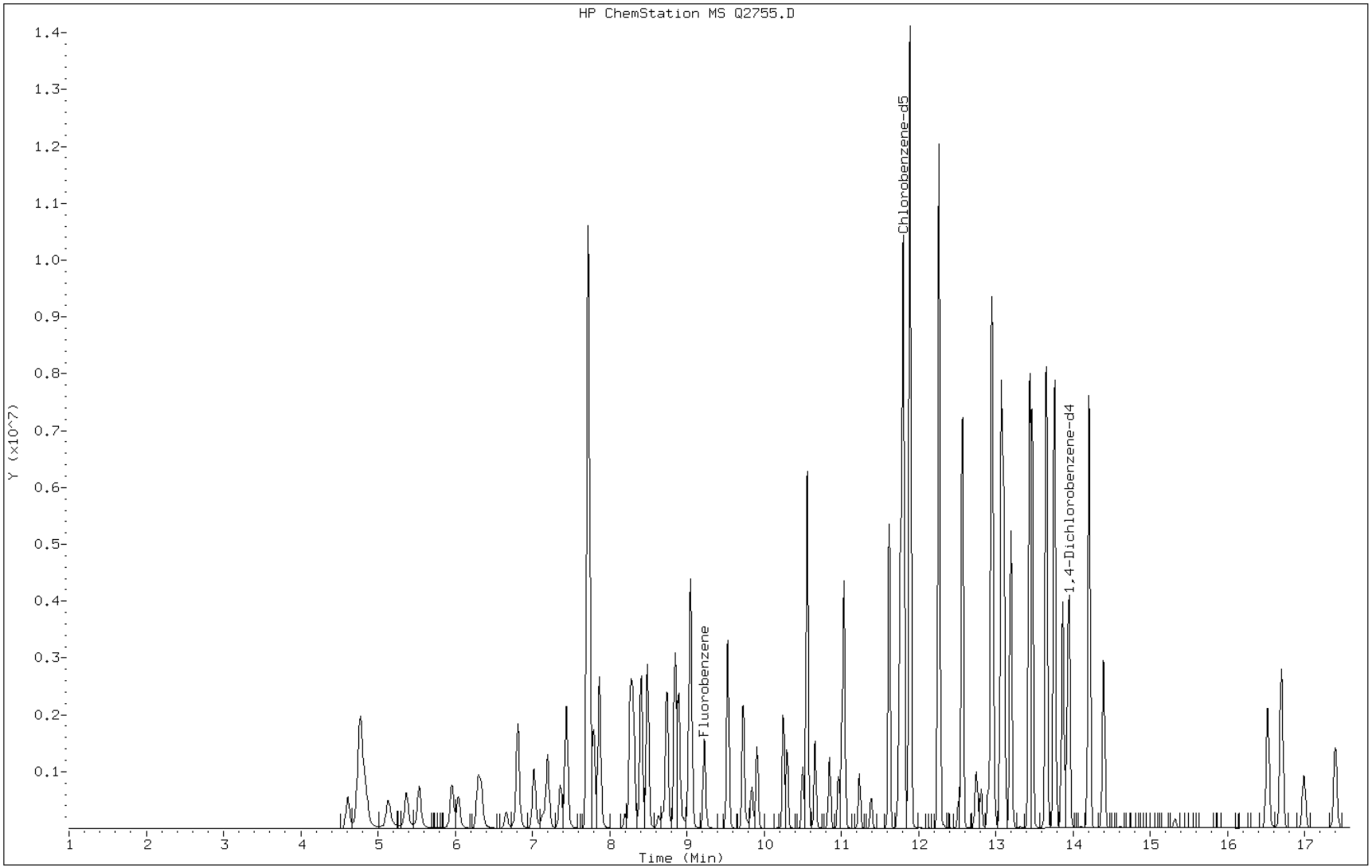
Date: 16-DEC-2011 11:06

Client ID: IC

Instrument: Q.i

Sample Info: IC,,M30

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2756.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 16-DEC-2011 11:28
Operator : MEIERG Inst ID: Q.i
Smp Info : IC,,M60
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 14:28 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 11:06 Cal File: Q2755.D
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 60 Fluorobenzene	96	9.224	9.224	(1.000)	1650981	12.5000	
* 95 Chlorobenzene-d5	119	11.748	11.748	(1.000)	339924	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.929	13.929	(1.000)	469883	12.5000	
M 1 1,2-Dichloroethene (total)	96				5608547	120.000	127.512
M 2 Xylene (total)	106				16661858	180.000	194.592
M 3 1,3-Dichloropropene (total)	75				5091884	120.000	129.136
M 4 Trihalomethanes (total)	83				8460371	240.000	271.941
5 dichlorodifluoromethane	85	5.135	5.135	(0.557)	2853795	60.0000	65.7851(A)
7 Chloromethane	50	5.378	5.378	(0.583)	2647465	60.0000	59.7330
8 Vinyl Chloride	62	5.542	5.542	(0.601)	3011364	60.0000	58.5481
10 Bromomethane	94	5.964	5.964	(0.647)	1970794	60.0000	55.9193
11 Chloroethane	64	6.043	6.043	(0.655)	1841352	60.0000	60.0164(A)
13 Trichlorofluoromethane	101	6.300	6.300	(0.683)	4536487	60.0000	62.6145(A)
14 Ethanol	45	6.329	6.329	(0.686)	320031	3000.00	3107.31(A)
19 Acrolein	56	6.665	6.665	(0.723)	936286	600.000	640.696(A)
20 Acetone	43	6.772	6.772	(0.734)	569246	240.000	217.441
22 1,1-Dichloroethene	96	6.815	6.815	(0.739)	2516406	60.0000	63.9137(A)
24 Iodomethane	142	7.015	7.015	(0.760)	3734599	60.0000	65.8818(A)
25 Acetonitrile	41	7.036	7.036	(0.763)	630208	600.000	553.231
30 Methylene Chloride	84	7.201	7.201	(0.781)	2001198	60.0000	56.3594
29 tert-Butyl alcohol	59	7.137	7.137	(0.774)	1027136	1200.00	1288.84(A)
33 trans-1,2-Dichloroethene	96	7.444	7.444	(0.807)	2850338	60.0000	63.5424(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
31 Acrylonitrile	53	7.365	7.365	(0.798)	2049516	600.000	624.894(A)
36 Isopropyl ether	87	7.723	7.723	(0.837)	8526338	300.000	315.343(A)
37 1,1-Dichloroethane	63	7.794	7.794	(0.845)	4502147	60.0000	61.1637(A)
38 Chloroprene	53	7.866	7.866	(0.853)	4586574	60.0000	61.0710(A)
44 2,2-Dichloropropane	77	8.302	8.302	(0.900)	4268752	60.0000	60.3796(A)
43 cis-1,2-Dichloroethene	96	8.266	8.266	(0.896)	2758209	60.0000	63.9692(A)
41 2-Butanone	43	8.202	8.202	(0.889)	921477	240.000	247.191(A)
45 Propionitrile	54	8.266	8.266	(0.896)	763696	600.000	626.897(A)
47 Bromochloromethane	128	8.488	8.488	(0.920)	889305	60.0000	66.8299(A)
46 Methacrylonitrile	41	8.409	8.409	(0.912)	3845601	600.000	612.898(A)
48 Chloroform	83	8.495	8.495	(0.921)	4079357	60.0000	62.3452(A)
51 1,1,1-Trichloroethane	97	8.745	8.745	(0.948)	4620835	60.0000	62.9247(A)
55 Carbon Tetrachloride	117	8.896	8.896	(0.964)	4046968	60.0000	65.3670(A)
54 1,1-Dichloropropene	75	8.845	8.845	(0.959)	4300574	60.0000	62.7821(A)
52 Isobutanol	41	8.688	8.688	(0.942)	330101	1200.00	1201.18(A)
59 Benzene	78	9.046	9.046	(0.981)	10388610	60.0000	61.7166(A)
58 1,2-Dichloroethane	62	9.024	9.024	(0.978)	1881527	60.0000	60.6326(A)
61 n-Butanol	56	9.224	9.224	(1.000)	472960	1800.00	1665.62(A)
64 Trichloroethene	95	9.532	9.532	(1.033)	2987255	60.0000	64.3615(A)
69 1,2-Dichloropropane	63	9.732	9.732	(1.055)	2079955	60.0000	61.7152(A)
70 1,4-Dioxane	88	9.782	9.782	(1.060)	344709	3000.00	3242.51(A)
71 Dibromomethane	93	9.839	9.839	(1.067)	765769	60.0000	62.1955(A)
72 Bromodichloromethane	83	9.911	9.911	(1.074)	2446778	60.0000	65.8854(A)
79 cis-1,3-Dichloropropene	75	10.254	10.254	(1.112)	2943544	60.0000	65.0784(A)
80 4-Methyl-2-pentanone	43	10.297	10.297	(1.116)	2215539	240.000	261.330(A)
83 Toluene	91	10.561	10.561	(1.145)	11744305	60.0000	62.2749(A)
86 trans-1,3-Dichloropropene	75	10.662	10.662	(1.156)	2148340	60.0000	64.0579(A)
87 1,1,2-Trichloroethane	97	10.847	10.847	(1.176)	1035979	60.0000	64.8604(A)
90 Tetrachloroethene	164	11.041	11.041	(0.940)	2606537	60.0000	67.5333(A)
89 1,3-Dichloropropane	76	11.005	11.005	(0.937)	1929327	60.0000	63.2607(A)
88 2-Hexanone	43	10.962	10.962	(0.933)	1462790	240.000	254.018(A)
91 Dibromochloromethane	129	11.234	11.234	(0.956)	1341653	60.0000	71.3009(A)
93 1,2-Dibromoethane	107	11.391	11.391	(0.970)	973291	60.0000	65.8409(A)
94 1-Chlorohexane	91	11.620	11.620	(0.989)	4737109	60.0000	64.5955(A)
96 Chlorobenzene	112	11.777	11.777	(1.002)	7115774	60.0000	65.2269(A)
98 Ethylbenzene	106	11.806	11.806	(1.005)	4835857	60.0000	67.9051(A)
97 1,1,1,2-Tetrachloroethane	131	11.806	11.806	(1.005)	2236718	60.0000	71.4754(A)
99 m and p-Xylene	106	11.891	11.891	(1.012)	11445687	120.000	128.905(A)
101 o-Xylene	106	12.270	12.270	(1.044)	5216171	60.0000	65.6873(A)
102 Styrene	104	12.263	12.263	(1.044)	7725810	60.0000	69.0808(A)
103 Bromoform	173	12.521	12.521	(1.066)	592583	60.0000	72.4093(A)
104 isopropyl benzene	105	12.571	12.571	(0.902)	13311615	60.0000	59.7666
106 Cyclohexanone	55	12.742	12.742	(0.915)	769087	2400.00	2562.53(A)
108 1,1,2,2-Tetrachloroethane	83	12.814	12.814	(0.920)	980613	60.0000	59.3132
111 Bromobenzene	156	12.971	12.971	(0.931)	2504472	60.0000	65.2319(A)
112 n-Propylbenzene	120	12.950	12.950	(0.930)	4438931	60.0000	63.7668(A)
110 1,2,3-Trichloropropane	110	12.907	12.907	(0.927)	281103	60.0000	61.0579(A)
113 2-Chlorotoluene	126	13.107	13.107	(0.941)	3297587	60.0000	62.4373(A)
114 1,3,5-Trimethylbenzene	105	13.078	13.078	(0.939)	11833460	60.0000	61.3818(A)
115 4-Chlorotoluene	126	13.200	13.200	(0.948)	3173416	60.0000	61.8740(A)
116 tert-Butylbenzene	119	13.443	13.443	(0.965)	12248143	60.0000	62.0400(A)
117 1,2,4-Trimethylbenzene	105	13.472	13.472	(0.967)	11424724	60.0000	61.1708(A)
118 sec-Butylbenzene	134	13.657	13.657	(0.980)	3564050	60.0000	63.4780(A)
119 4-Isopropyltoluene	119	13.765	13.765	(0.988)	13557340	60.0000	61.1367(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
120 1,3-Dichlorobenzene	146	13.872	13.872	(0.996)	5327698	60.0000	64.4347(A)
122 1,4-dichlorobenzene	146	13.951	13.951	(1.002)	4948478	60.0000	62.3859(A)
124 n-Butylbenzene	91	14.215	14.215	(1.021)	12868333	60.0000	60.8405(A)
125 1,2-Dichlorobenzene	146	14.401	14.401	(1.034)	4038649	60.0000	64.0926(A)
126 1,2-Dibromo-3-chloropropane	157	15.331	15.331	(1.101)	147802	60.0000	61.0442(A)
127 1,2,4-Trichlorobenzene	180	16.525	16.525	(1.186)	2522861	60.0000	65.3823(A)
128 Hexachlorobutadiene	225	16.703	16.703	(1.199)	2090392	60.0000	66.9392(A)
129 Naphthalene	128	16.997	16.997	(1.220)	3100710	60.0000	67.3178(A)
130 1,2,3-Trichlorobenzene	180	17.404	17.404	(1.249)	1849159	60.0000	64.6540(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: Q2756.D

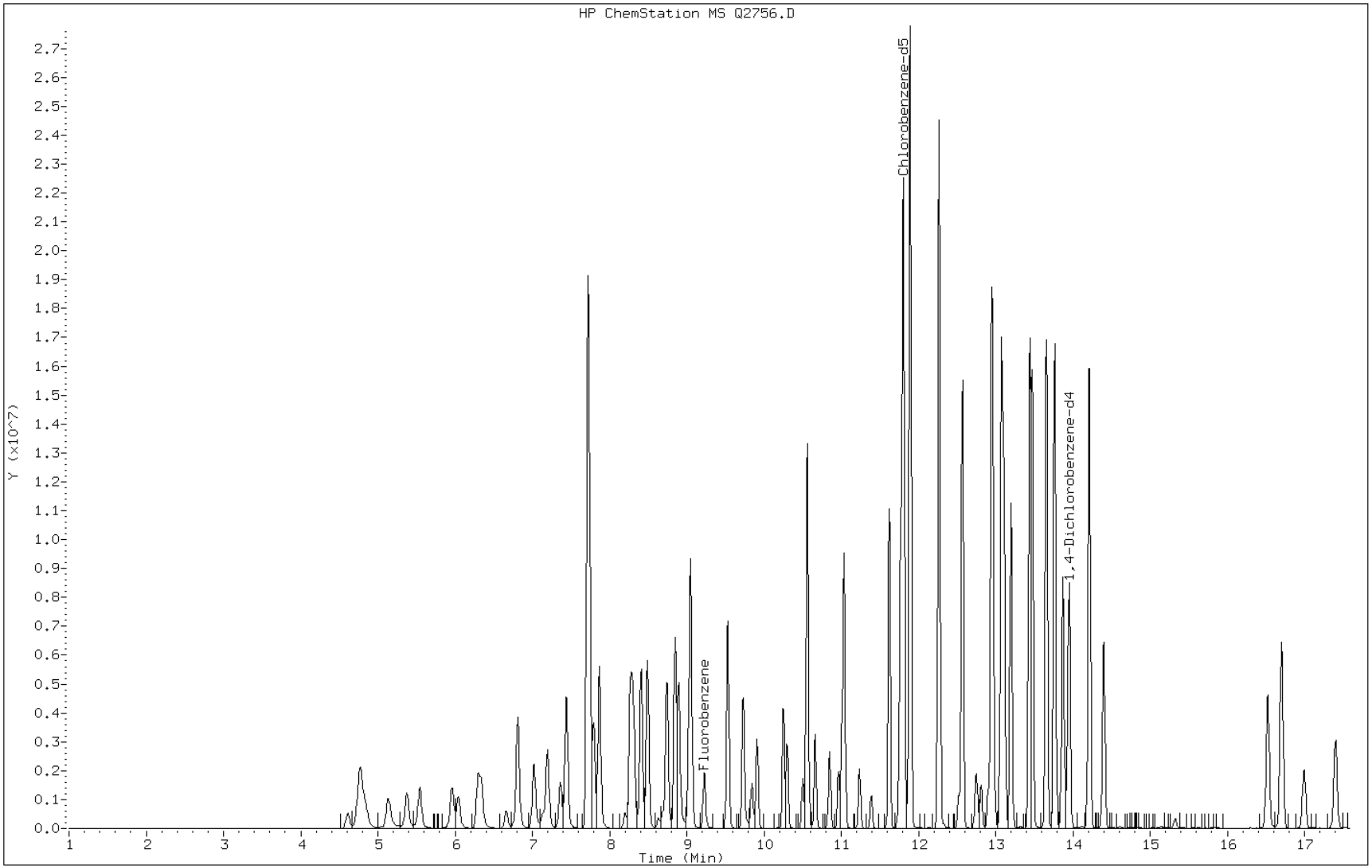
Date: 16-DEC-2011 11:28

Client ID: IC

Instrument: Q.i

Sample Info: IC,,M60

Operator: MEIERG



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 12:56 Calibration End Date: 12/16/2011 14:46 Calibration ID: 8092

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-100335/12	Q2760.D
Level 2	IC 280-100335/13	Q2761.D
Level 3	IC 280-100335/14	Q2762.D
Level 4	ICIS 280-100335/15	Q2763.D
Level 5	IC 280-100335/16	Q2764.D
Level 6	IC 280-100335/17	Q2765.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorofluoromethane	0.6858 0.6725	0.6580	0.6969	0.6927	0.6664	Ave		0.6787				2.3		15.0			
Ethyl ether	0.1223 0.1275	0.1162	0.1267	0.1282	0.1235	Ave		0.1240				3.6		15.0			
2,2-Dichloro-1,1,1-trifluoroethane	0.5480 0.5470	0.5157	0.5465	0.5414	0.5341	Ave		0.5388				2.3		15.0			
Propene oxide	0.0143 0.0149	0.0137	0.0149	0.0150	0.0146	Ave		0.0146				3.6					
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3047 0.2972	0.2849	0.2992	0.2941	0.2931	Ave		0.2955				2.2		15.0			
Isopropyl alcohol	+++++ 0.0043	0.0040	0.0044	0.0043	0.0042	Ave		0.0042				3.6		15.0			
Methyl acetate	0.0586 0.0552	0.0541	0.0577	0.0569	0.0538	Ave		0.0560				3.5		15.0			
Allyl chloride	0.4770 0.5086	0.4472	0.5235	0.5225	0.5001	Ave		0.4965				6.0		15.0			
Carbon disulfide	1.4543 1.4682	1.3627	1.4632	1.4525	1.4343	Ave		1.4392				2.7		15.0			
Methyl tert-butyl ether	0.4034 0.4167	0.3803	0.4100	0.4117	0.4032	Ave		0.4042				3.2		15.0			
Hexane	0.6030 0.5945	0.5613	0.5955	0.5985	0.5916	Ave		0.5908				2.5		15.0			
Vinyl acetate	0.2023 0.2076	0.2093	0.2298	0.2116	0.2102	Ave		0.2118				4.4		15.0			
Tert-butyl ethyl ether	+++++ 0.5740	0.5645	0.6110	0.6156	0.5905	Ave		0.5911				3.8		15.0			
Ethyl acetate	0.0886 0.0852	0.0764	0.0862	0.0738	0.0834	Ave		0.0823				7.1		15.0			
2-Butanol	+++++ 0.0046	0.0040	0.0043	0.0043	0.0044	Ave		0.0043				5.4					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 12:56 Calibration End Date: 12/16/2011 14:46 Calibration ID: 8092

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrahydrofuran	+++++ 0.0206	0.0194	0.0199	0.0208	0.0200	Ave		0.0201				2.8		15.0			
Cyclohexane	0.6703 0.6959	0.6345	0.6875	0.6864	0.6825	Ave		0.6762				3.3		15.0			
Tert-amyl methyl ether	0.4584 0.4777	0.4439	0.4814	0.4921	0.4778	Ave		0.4719				3.7		15.0			
2-Pentanone	0.0506 0.0533	0.0476	0.0506	0.0513	0.0513	Ave		0.0508				3.7		15.0			
Methyl methacrylate	0.0228 0.0289	0.0212	0.0246	0.0262	0.0270	Ave		0.0251				11.3		15.0			
Methylcyclohexane	0.5492 0.5646	0.5123	0.5656	0.5670	0.5593	Ave		0.5530				3.8		15.0			
2-Chloroethyl vinyl ether	0.0546 0.0804	0.0685	0.0704	0.0733	0.0775	Ave		0.0708				12.8		15.0			
2-Nitropropane	+++++ 0.0237	0.0234	0.0226	0.0236	0.0230	Ave		0.0233				1.9		15.0			
Ethyl methacrylate	0.5900 0.7948	0.5800	0.6668	0.7133	0.7634	Ave		0.6847				13.0		15.0			
cis-1,4-Dichloro-2-butene	+++++ 0.1171	0.0964	0.1127	0.1160	0.1170	Ave		0.1118				7.9		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1179	0.0991	0.1165	0.1191	0.1169	Ave		0.1139				7.3		15.0			
Dibromofluoromethane (Surr)	+++++ 0.2604	0.3295	0.2761	0.2698	0.2551	Ave		0.2782				10.7		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.1949	0.2581	0.2176	0.2114	0.1944	Ave		0.2153				12.1		15.0			
Toluene-d8 (Surr)	+++++ 6.2907	7.6981	6.5225	6.4175	6.2887	Ave		6.6435				9.0		15.0			
4-Bromofluorobenzene (Surr)	+++++ 1.3651	1.7743	1.4783	1.4375	1.3767	Ave		1.4864				11.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 12:56 Calibration End Date: 12/16/2011 14:46 Calibration ID: 8092

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-100335/12	Q2760.D
Level 2	IC 280-100335/13	Q2761.D
Level 3	IC 280-100335/14	Q2762.D
Level 4	ICIS 280-100335/15	Q2763.D
Level 5	IC 280-100335/16	Q2764.D
Level 6	IC 280-100335/17	Q2765.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorofluoromethane	FB	Ave	80177 4879333	153477	399256	789845	2383937	1.00 60.0	2.00	5.00	10.0	30.0
Ethyl ether	FB	Ave	14298 924996	27108	72575	146131	441650	1.00 60.0	2.00	5.00	10.0	30.0
2,2-Dichloro-1,1,1-trifluoroethane	FB	Ave	64071 3968618	120291	313092	617326	1910794	1.00 60.0	2.00	5.00	10.0	30.0
Propene oxide	FB	Ave	83476 5409178	159358	428172	855977	2619193	50.0 3000	100	250	500	1500
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	35622 2156071	66452	171431	335338	1048427	1.00 60.0	2.00	5.00	10.0	30.0
Isopropyl alcohol	FB	Ave	+++++ 626877	18629	49944	98118	297469	+++++ 1200	40.0	100	200	600
Methyl acetate	FB	Ave	34234 2002780	63150	165195	324408	961835	5.00 300	10.0	25.0	50.0	150
Allyl chloride	FB	Ave	55766 3690521	104320	299948	595769	1789015	1.00 60.0	2.00	5.00	10.0	30.0
Carbon disulfide	FB	Ave	170033 10652574	317846	838292	1656133	5130963	1.00 60.0	2.00	5.00	10.0	30.0
Methyl tert-butyl ether	FB	Ave	47167 3023523	88703	234875	469372	1442381	1.00 60.0	2.00	5.00	10.0	30.0
Hexane	FB	Ave	70505 4313736	130930	341181	682435	2116238	1.00 60.0	2.00	5.00	10.0	30.0
Vinyl acetate	FB	Ave	47295 3012549	97646	263377	482486	1504105	2.00 120	4.00	10.0	20.0	60.0
Tert-butyl ethyl ether	FB	Ave	+++++ 20821709	658297	1750452	3509536	10561483	+++++ 300	10.0	25.0	50.0	150
Ethyl acetate	FB	Ave	20725 1236280	35647	98793	168311	596580	2.00 120	4.00	10.0	20.0	60.0
2-Butanol	FB	Ave	+++++ 1011455	28014	73518	148500	476696	+++++ 1800	60.0	150	300	900
Tetrahydrofuran	FB	Ave	+++++ 298759	9040	22832	47438	143319	+++++ 120	4.00	10.0	20.0	60.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100335

SDG No.:

Instrument ID: MSV_Q GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2011 12:56 Calibration End Date: 12/16/2011 14:46 Calibration ID: 8092

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Cyclohexane	FB	Ave	78368 5049368	147997	393872	782676	2441604	1.00 60.0	2.00	5.00	10.0	30.0
Tert-amyl methyl ether	FB	Ave	267978 17328431	517653	1379138	2805228	8546613	5.00 300	10.0	25.0	50.0	150
2-Pentanone	FB	Ave	23646 1546260	44370	116006	233984	733954	4.00 240	8.00	20.0	40.0	120
Methyl methacrylate	FB	Ave	5332 418952	9872	28197	59836	193370	2.00 120	4.00	10.0	20.0	60.0
Methylcyclohexane	FB	Ave	64215 4096623	119500	324052	646446	2000960	1.00 60.0	2.00	5.00	10.0	30.0
2-Chloroethyl vinyl ether	FB	Ave	6383 583032	15977	40339	83602	277183	1.00 60.0	2.00	5.00	10.0	30.0
2-Nitropropane	FB	Ave	+++++ 171687	5463	12947	26922	82366	+++++ 60.0	2.00	5.00	10.0	30.0
Ethyl methacrylate	CBZ	Ave	27075 2285304	52754	148558	317342	1063746	2.00 120	4.00	10.0	20.0	60.0
cis-1,4-Dichloro-2-butene	DCB	Ave	+++++ 221076	5376	15277	31877	103296	+++++ 60.0	2.00	5.00	10.0	30.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 222704	5531	15792	32749	103203	+++++ 60.0	2.00	5.00	10.0	30.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 1889677	76849	158192	307572	912663	+++++ 60.0	2.00	5.00	10.0	30.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 1414002	60211	124656	241013	695306	+++++ 60.0	2.00	5.00	10.0	30.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 9043461	350078	726538	1427612	4381330	+++++ 60.0	2.00	5.00	10.0	30.0
4-Bromofluorobenzene (Surr)	DCB	Ave	+++++ 2577791	99001	200361	395117	1214920	+++++ 60.0	2.00	5.00	10.0	30.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2760.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 16-DEC-2011 12:56
Operator : MEIERG Inst ID: Q.i
Smp Info : IC,,S1.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 15:03 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 12:56 Cal File: Q2760.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 60 Fluorobenzene	96	9.224	9.224	(1.000)	1461448	12.5000	
* 95 Chlorobenzene-d5	119	11.748	11.748	(1.000)	286812	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.922	13.922	(1.000)	352994	12.5000	
$ 50 Dibromofluoromethane (Surr)	111	8.631	8.631	(0.936)	49176	1.00000	1.51200
$ 56 1,2-Dichloroethane-d4	65	8.960	8.960	(0.971)	38872	1.00000	1.54448
$ 82 Toluene-d8	98	10.497	10.497	(0.893)	235916	1.00000	1.54765
$ 107 4-Bromofluorobenzene (Surr)	95	12.756	12.756	(0.916)	64890	1.00000	1.54595
9 Ethylene Oxide	43	5.907	5.907	(0.640)	83747	125.000	215.238(a)
12 Dichlorofluoromethane	67	6.185	6.185	(0.671)	80177	1.00000	1.01040(a)
16 Ethyl Ether	59	6.500	6.500	(0.705)	14298	1.00000	0.985842(a)
15 1,2-dichloro-1,1,2-trifluoro	117	6.471	6.471	(0.702)	48951	1.00000	1.04507(a)
17 2,2-dichloro-1,1,1-trifluoro	83	6.500	6.500	(0.705)	64071	1.00000	1.01711(a)
18 Propylene Oxide	58	6.614	6.614	(0.717)	83476	50.0000	48.9818
21 Trichlorotrifluoroethane	151	6.765	6.765	(0.733)	35622	1.00000	1.03099(a)
23 2-propanol	45	6.779	6.779	(0.735)	10031	20.0000	20.2998(a)
26 Methyl Acetate	43	7.029	7.029	(0.762)	34234	5.00000	5.22466
28 Allyl Chloride	41	7.101	7.101	(0.770)	55766	1.00000	0.960669(a)
27 Carbon Disulfide	76	7.136	7.136	(0.774)	170033	1.00000	1.01051(a)
32 Methyl t-butyl ether	73	7.387	7.387	(0.801)	47167	1.00000	0.998064(a)
34 Hexane	57	7.615	7.615	(0.826)	70505	1.00000	1.02080(a)
35 Vinyl acetate	43	7.708	7.708	(0.836)	47295	2.00000	1.90986(a)
39 ETBE	59	8.030	8.030	(0.871)	346404	5.00000	5.01237

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
40	Ethyl Acetate	43	8.180	8.180	(0.887)	20725	2.00000	2.15453(a)
42	sec-Butyl Alcohol	45	8.237	8.237	(0.893)	14772	30.0000	29.0978
49	Tetrahydrofuran	42	8.531	8.531	(0.925)	4754	2.00000	2.01842(a)
53	Cyclohexane	56	8.824	8.824	(0.957)	78368	1.00000	0.991274(a)
57	TAME	73	9.017	9.017	(0.978)	267978	5.00000	4.85734(a)
67	Methyl Cyclohexane	55	9.732	9.732	(1.055)	64215	1.00000	0.993172(a)
65	2-Pentanone	43	9.560	9.560	(1.036)	23646	4.00000	3.98371(a)
66	Methyl Methacrylate	100	9.646	9.646	(1.046)	5332	2.00000	1.81562(a)
74	2-nitropropane	41	10.054	10.054	(1.090)	2331	1.00000	0.857019(a)
75	2-Chloroethyl vinyl ether	63	10.046	10.046	(1.089)	6383	1.00000	0.771361(a)
85	Ethyl methacrylate	69	10.626	10.626	(0.904)	27075	2.00000	1.72330(a)
92	Tetrahydrothiophene	60	11.291	11.291	(0.961)	7309	1.00000	0.910397(a)
105	cis-1,4-dichloro-2-butene	53	12.599	12.599	(0.905)	3048	1.00000	0.965150(a)
109	t-1,4-Dichloro-2-butene	53	12.849	12.849	(0.923)	3178	1.00000	0.987754(a)
123	1,2,3-Trimethylbenzene	105	13.943	13.943	(1.002)	119700	1.00000	0.975049(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: Q2760.D

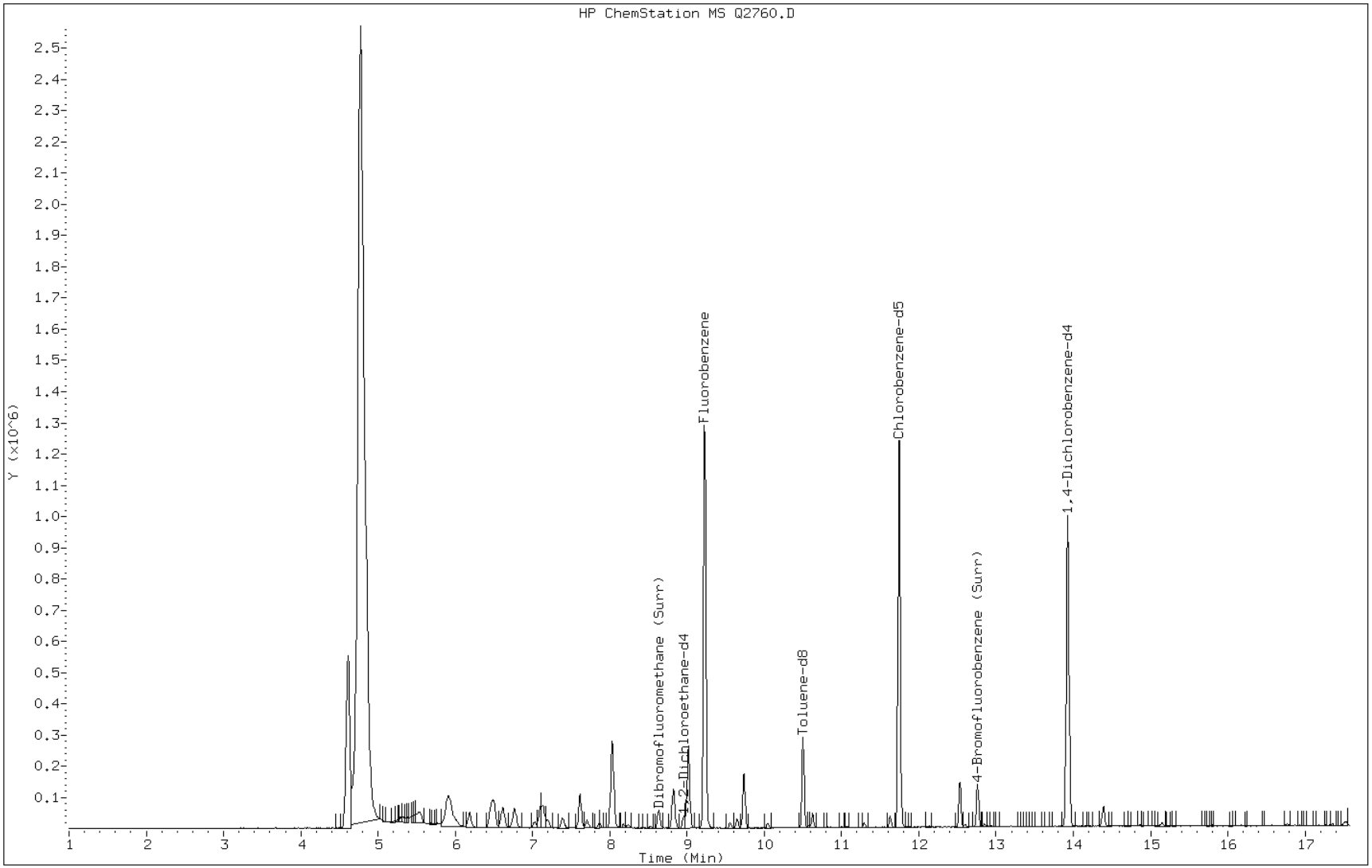
Date: 16-DEC-2011 12:56

Client ID: IC

Instrument: Q.i

Sample Info: IC,,S1.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2761.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 16-DEC-2011 13:18
Operator : MEIERG Inst ID: Q.i
Smp Info : IC,,S2.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 15:03 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 12:56 Cal File: Q2760.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

						AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 60 Fluorobenzene	96	9.227	9.227	(1.000)	1457798	12.5000	
* 95 Chlorobenzene-d5	119	11.751	11.751	(1.000)	284225	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.924	13.924	(1.000)	348726	12.5000	
$ 50 Dibromofluoromethane (Surr)	111	8.633	8.633	(0.936)	76849	2.00000	2.36877
$ 56 1,2-Dichloroethane-d4	65	8.962	8.962	(0.971)	60211	2.00000	2.39831
$ 82 Toluene-d8	98	10.506	10.506	(0.894)	350078	2.00000	2.31747
$ 107 4-Bromofluorobenzene (Surr)	95	12.759	12.759	(0.916)	99001	2.00000	2.38748
6 1,2-Dichlorotetrafluoroethane	85	5.308	5.308	(0.575)	33426	2.00000	1.93335(aQ)
9 Ethylene Oxide	43	5.902	5.902	(0.640)	153851	250.000	276.743(a)
12 Dichlorofluoromethane	67	6.181	6.181	(0.670)	153477	2.00000	1.93897(a)
16 Ethyl Ether	59	6.502	6.502	(0.705)	27108	2.00000	1.87377(a)
15 1,2-dichloro-1,1,2-trifluoro	117	6.459	6.459	(0.700)	88616	2.00000	1.89663(a)
17 2,2-dichloro-1,1,1-trifluoro	83	6.502	6.502	(0.705)	120291	2.00000	1.91437(a)
18 Propylene Oxide	58	6.617	6.617	(0.717)	159358	100.000	93.7417
21 Trichlorotrifluoroethane	151	6.767	6.767	(0.733)	66452	2.00000	1.92810(a)
23 2-propanol	45	6.781	6.781	(0.735)	18629	40.0000	37.7940(aQ)
26 Methyl Acetate	43	7.024	7.024	(0.761)	63150	10.0000	9.66184
28 Allyl Chloride	41	7.096	7.096	(0.769)	104320	2.00000	1.80160(a)
27 Carbon Disulfide	76	7.139	7.139	(0.774)	317846	2.00000	1.89369(a)
32 Methyl t-butyl ether	73	7.389	7.389	(0.801)	88703	2.00000	1.88168(a)
34 Hexane	57	7.611	7.611	(0.825)	130930	2.00000	1.90040(a)
35 Vinyl acetate	43	7.711	7.711	(0.836)	97646	4.00000	3.95300

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
39 ETBE	59	8.032	8.032	(0.871)	658297	10.0000	9.54922
40 Ethyl Acetate	43	8.183	8.183	(0.887)	35647	4.00000	3.71507(a)
42 sec-Butyl Alcohol	45	8.233	8.233	(0.892)	28014	60.0000	55.3200
49 Tetrahydrofuran	42	8.526	8.526	(0.924)	9040	4.00000	3.84775(a)
53 Cyclohexane	56	8.826	8.826	(0.957)	147997	2.00000	1.87670(a)
57 TAME	73	9.019	9.019	(0.978)	517653	10.0000	9.40641
67 Methyl Cyclohexane	55	9.734	9.734	(1.055)	119500	2.00000	1.85286
65 2-Pentanone	43	9.563	9.563	(1.036)	44370	8.00000	7.49386
66 Methyl Methacrylate	100	9.656	9.656	(1.046)	9872	4.00000	3.36997(a)
74 2-nitropropane	41	10.063	10.063	(1.091)	5463	2.00000	2.01356(a)
75 2-Chloroethyl vinyl ether	63	10.042	10.042	(1.088)	15977	2.00000	1.93559(a)
85 Ethyl methacrylate	69	10.628	10.628	(0.904)	52754	4.00000	3.38830
92 Tetrahydrothiophene	60	11.300	11.300	(0.962)	14143	2.00000	1.77766(a)
105 cis-1,4-dichloro-2-butene	53	12.594	12.594	(0.904)	5376	2.00000	1.72314(aQ)
109 t-1,4-Dichloro-2-butene	53	12.845	12.845	(0.922)	5531	2.00000	1.74013(a)
123 1,2,3-Trimethylbenzene	105	13.946	13.946	(1.002)	227727	2.00000	1.87772

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: Q2761.D

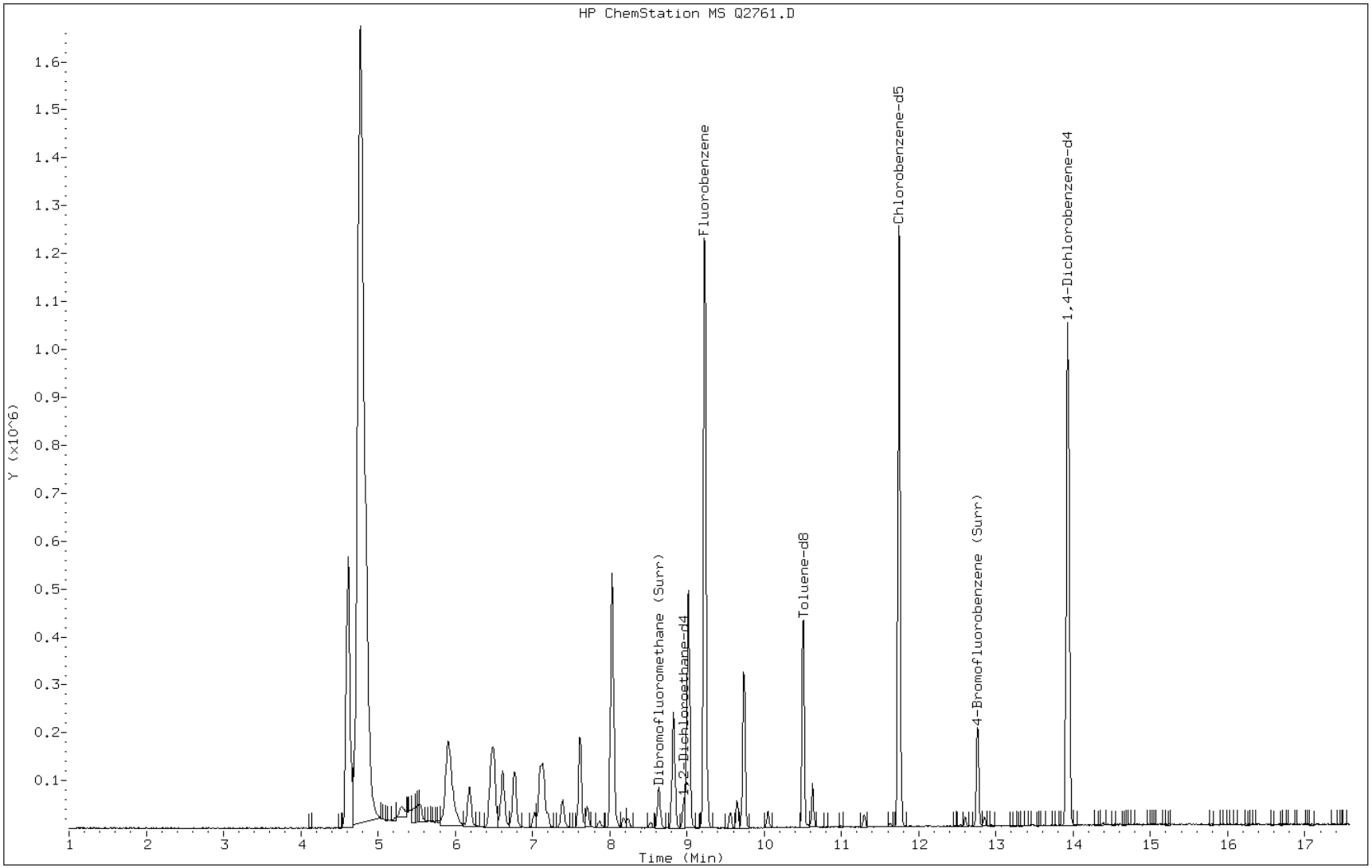
Date: 16-DEC-2011 13:18

Client ID: IC

Instrument: Q.i

Sample Info: IC,,S2.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2762.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 16-DEC-2011 13:40
Operator : MEIERG Inst ID: Q.i
Smp Info : IC,,S5.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 15:03 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 13:18 Cal File: Q2761.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 60 Fluorobenzene	96	9.224	9.224	(1.000)	1432339	12.5000	
* 95 Chlorobenzene-d5	119	11.748	11.748	(1.000)	278472	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.921	13.921	(1.000)	338840	12.5000	
$ 50 Dibromofluoromethane (Surr)	111	8.637	8.637	(0.936)	158192	5.00000	4.96272
$ 56 1,2-Dichloroethane-d4	65	8.959	8.959	(0.971)	124656	5.00000	5.05353
$ 82 Toluene-d8	98	10.496	10.496	(0.893)	726538	5.00000	4.90895
$ 107 4-Bromofluorobenzene (Surr)	95	12.763	12.763	(0.917)	200361	5.00000	4.97283
6 1,2-Dichlorotetrafluoroethane	85	5.298	5.298	(0.574)	88763	5.00000	5.22529(Q)
9 Ethylene Oxide	43	5.913	5.913	(0.641)	391201	625.000	544.818(a)
12 Dichlorofluoromethane	67	6.185	6.185	(0.671)	399256	5.00000	5.13371
16 Ethyl Ether	59	6.500	6.500	(0.705)	72575	5.00000	5.10572
15 1,2-dichloro-1,1,2-trifluoro	117	6.464	6.464	(0.701)	232484	5.00000	5.06425
17 2,2-dichloro-1,1,1-trifluoro	83	6.500	6.500	(0.705)	313092	5.00000	5.07126
18 Propylene Oxide	58	6.614	6.614	(0.717)	428172	250.000	256.347
21 Trichlorotrifluoroethane	151	6.771	6.771	(0.734)	171431	5.00000	5.06246
23 2-propanol	45	6.786	6.786	(0.736)	49944	100.000	103.126
26 Methyl Acetate	43	7.029	7.029	(0.762)	165195	25.0000	25.7238
28 Allyl Chloride	41	7.100	7.100	(0.770)	299948	5.00000	5.27215
27 Carbon Disulfide	76	7.136	7.136	(0.774)	838292	5.00000	5.08322
32 Methyl t-butyl ether	73	7.386	7.386	(0.801)	234875	5.00000	5.07101
34 Hexane	57	7.615	7.615	(0.826)	341181	5.00000	5.04015
35 Vinyl acetate	43	7.708	7.708	(0.836)	263377	10.0000	10.8518

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
39 ETBE	59	8.030	8.030	(0.871)	1750452	25.0000	25.8433
40 Ethyl Acetate	43	8.173	8.173	(0.886)	98793	10.0000	10.4790(Q)
42 sec-Butyl Alcohol	45	8.237	8.237	(0.893)	73518	150.000	147.758
49 Tetrahydrofuran	42	8.530	8.530	(0.925)	22832	10.0000	9.89085
53 Cyclohexane	56	8.823	8.823	(0.957)	393872	5.00000	5.08332
57 TAME	73	9.016	9.016	(0.978)	1379138	25.0000	25.5061
67 Methyl Cyclohexane	55	9.739	9.739	(1.056)	324052	5.00000	5.11376
65 2-Pentanone	43	9.560	9.560	(1.036)	116006	20.0000	19.9410
66 Methyl Methacrylate	100	9.646	9.646	(1.046)	28197	10.0000	9.79660
74 2-nitropropane	41	10.053	10.053	(1.090)	12947	5.00000	4.85685
75 2-Chloroethyl vinyl ether	63	10.039	10.039	(1.088)	40339	5.00000	4.97388
85 Ethyl methacrylate	69	10.625	10.625	(0.904)	148558	10.0000	9.73876
92 Tetrahydrothiophene	60	11.297	11.297	(0.962)	37208	5.00000	4.77337
105 cis-1,4-dichloro-2-butene	53	12.599	12.599	(0.905)	15277	5.00000	5.03954
109 t-1,4-Dichloro-2-butene	53	12.849	12.849	(0.923)	15792	5.00000	5.11334
123 1,2,3-Trimethylbenzene	105	13.943	13.943	(1.002)	598772	5.00000	5.08120

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: Q2762.D

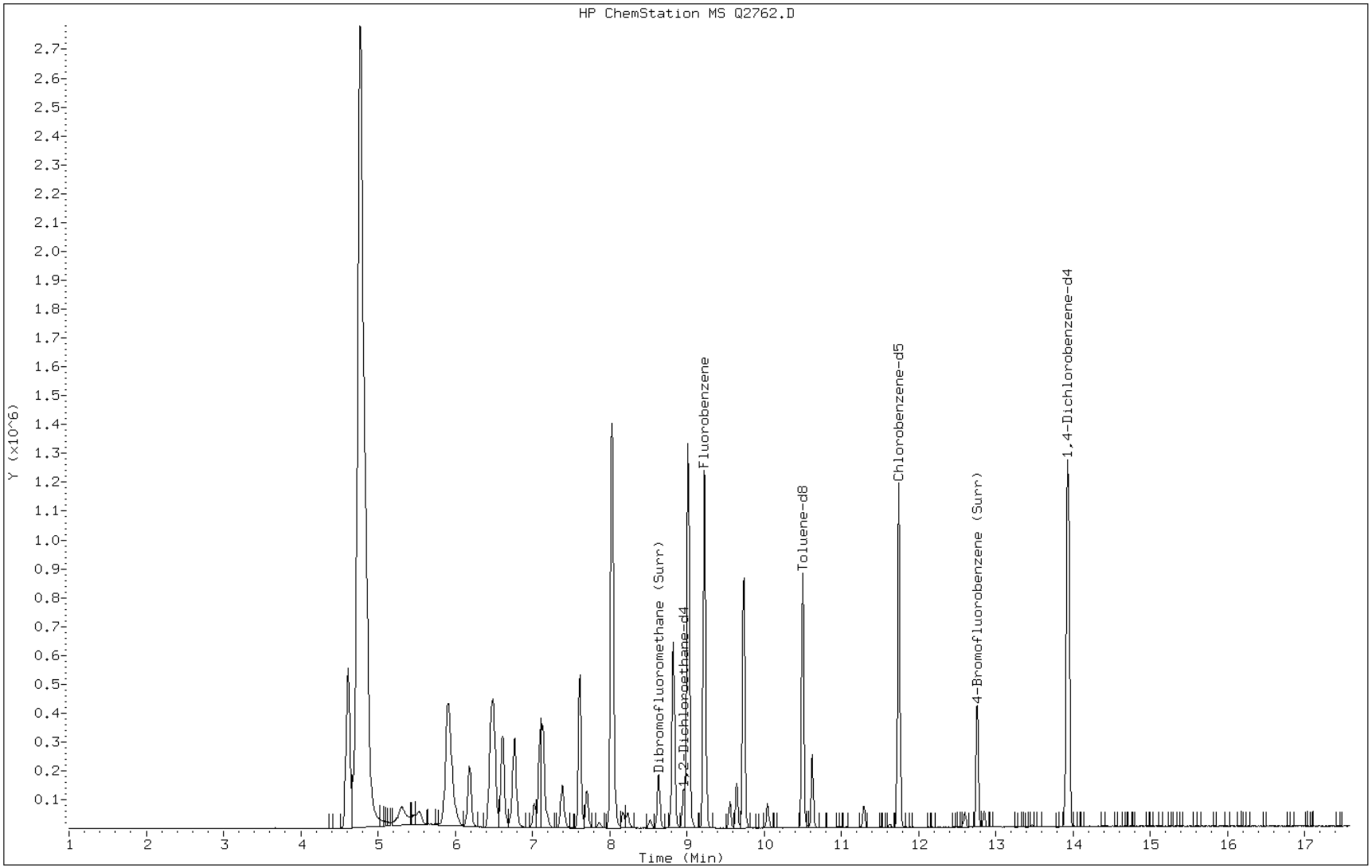
Date: 16-DEC-2011 13:40

Client ID: IC

Instrument: Q.i

Sample Info: IC,,S5.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2763.D
Lab Smp Id: ICIS Client Smp ID: ICIS
Inj Date : 16-DEC-2011 14:02
Operator : MEIERG Inst ID: Q.i
Smp Info : ICIS,,S10
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 15:03 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 13:40 Cal File: Q2762.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 60 Fluorobenzene	96	9.228	9.228	(1.000)	1425241	12.5000	
* 95 Chlorobenzene-d5	119	11.745	11.745	(1.000)	278070	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.925	13.925	(1.000)	343583	12.5000	
$ 50 Dibromofluoromethane (Surr)	111	8.634	8.634	(0.936)	307572	10.0000	9.69706
$ 56 1,2-Dichloroethane-d4	65	8.956	8.956	(0.971)	241013	10.0000	9.81928
$ 82 Toluene-d8	98	10.500	10.500	(0.894)	1427612	10.0000	9.65980
$ 107 4-Bromofluorobenzene (Surr)	95	12.760	12.760	(0.916)	395117	10.0000	9.67116
6 1,2-Dichlorotetrafluoroethane	85	5.302	5.302	(0.575)	170150	10.0000	10.0662
9 Ethylene Oxide	43	5.917	5.917	(0.641)	757499	1250.00	1123.57
12 Dichlorofluoromethane	67	6.189	6.189	(0.671)	789845	10.0000	10.2066
16 Ethyl Ether	59	6.496	6.496	(0.704)	146131	10.0000	10.3316
15 1,2-dichloro-1,1,2-trifluoro	117	6.461	6.461	(0.700)	457398	10.0000	10.0132
17 2,2-dichloro-1,1,1-trifluoro	83	6.504	6.504	(0.705)	617326	10.0000	10.0488
18 Propylene Oxide	58	6.611	6.611	(0.716)	855977	500.000	515.027
21 Trichlorotrifluoroethane	151	6.768	6.768	(0.733)	335338	10.0000	9.95205
23 2-propanol	45	6.782	6.782	(0.735)	98118	200.000	203.606
26 Methyl Acetate	43	7.025	7.025	(0.761)	324408	50.0000	50.7676
28 Allyl Chloride	41	7.097	7.097	(0.769)	595769	10.0000	10.5239
27 Carbon Disulfide	76	7.133	7.133	(0.773)	1656133	10.0000	10.0924
32 Methyl t-butyl ether	73	7.390	7.390	(0.801)	469372	10.0000	10.1843
34 Hexane	57	7.612	7.612	(0.825)	682435	10.0000	10.1316
35 Vinyl acetate	43	7.705	7.705	(0.835)	482486	20.0000	19.9786

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
39 ETBE	59	8.026	8.026	(0.870)	3509536	50.0000	52.0721
40 Ethyl Acetate	43	8.177	8.177	(0.886)	168311	20.0000	17.9418
42 sec-Butyl Alcohol	45	8.234	8.234	(0.892)	148500	300.000	299.946
49 Tetrahydrofuran	42	8.527	8.527	(0.924)	47438	20.0000	20.6525
53 Cyclohexane	56	8.827	8.827	(0.957)	782676	10.0000	10.1515
57 TAME	73	9.013	9.013	(0.977)	2805228	50.0000	52.1390
67 Methyl Cyclohexane	55	9.735	9.735	(1.055)	646446	10.0000	10.2522
65 2-Pentanone	43	9.557	9.557	(1.036)	233984	40.0000	40.4214
66 Methyl Methacrylate	100	9.650	9.650	(1.046)	59836	20.0000	20.8926
74 2-nitropropane	41	10.057	10.057	(1.090)	26922	10.0000	10.1496
75 2-Chloroethyl vinyl ether	63	10.043	10.043	(1.088)	83602	10.0000	10.3596
85 Ethyl methacrylate	69	10.622	10.622	(0.904)	317342	20.0000	20.8335
92 Tetrahydrothiophene	60	11.294	11.294	(0.962)	78419	10.0000	10.0748
105 cis-1,4-dichloro-2-butene	53	12.603	12.603	(0.905)	31877	10.0000	10.3703
109 t-1,4-Dichloro-2-butene	53	12.846	12.846	(0.922)	32749	10.0000	10.4575
123 1,2,3-Trimethylbenzene	105	13.947	13.947	(1.002)	1216254	10.0000	10.1787

Data File: Q2763.D

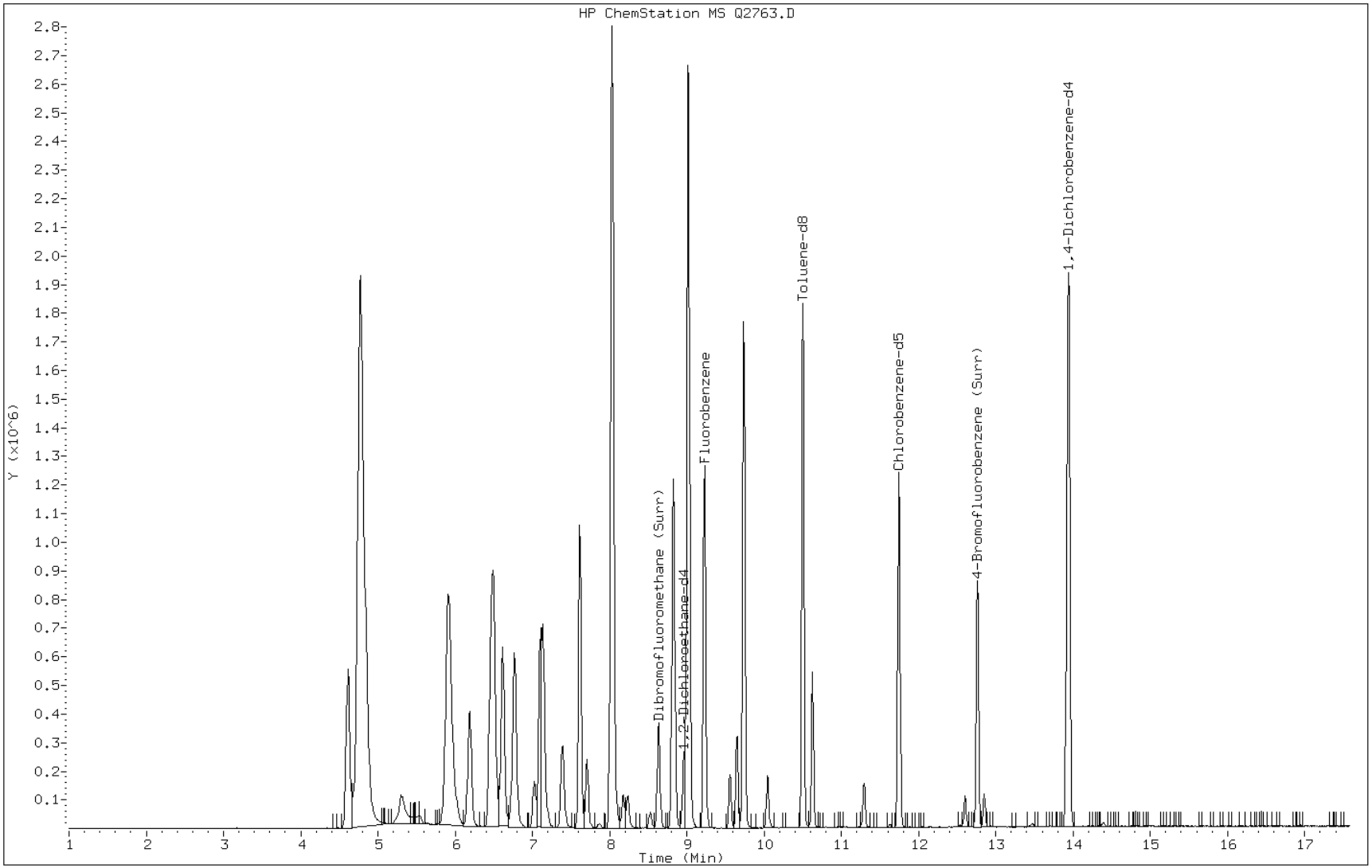
Date: 16-DEC-2011 14:02

Client ID: ICIS

Instrument: Q.i

Sample Info: ICIS,,S10

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2764.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 16-DEC-2011 14:24
Operator : MEIERG Inst ID: Q.i
Smp Info : IC,,S30
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 15:03 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 14:02 Cal File: Q2763.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 60 Fluorobenzene	96	9.231	9.231	(1.000)	1490542	12.5000	
* 95 Chlorobenzene-d5	119	11.748	11.748	(1.000)	290289	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.922	13.922	(1.000)	367713	12.5000	
$ 50 Dibromofluoromethane (Surr)	111	8.638	8.638	(0.936)	912663	30.0000	27.5136
$ 56 1,2-Dichloroethane-d4	65	8.959	8.959	(0.971)	695306	30.0000	27.0869
$ 82 Toluene-d8	98	10.504	10.504	(0.894)	4381330	30.0000	28.3980
$ 107 4-Bromofluorobenzene (Surr)	95	12.763	12.763	(0.917)	1214920	30.0000	27.7858
6 1,2-Dichlorotetrafluoroethane	85	5.299	5.299	(0.574)	528597	30.0000	29.9023
9 Ethylene Oxide	43	5.906	5.906	(0.640)	1895569	3750.00	3893.11
12 Dichlorofluoromethane	67	6.192	6.192	(0.671)	2383937	30.0000	29.4562
16 Ethyl Ether	59	6.493	6.493	(0.703)	441650	30.0000	29.8572
15 1,2-dichloro-1,1,2-trifluoro	117	6.464	6.464	(0.700)	1406033	30.0000	29.4320
17 2,2-dichloro-1,1,1-trifluoro	83	6.500	6.500	(0.704)	1910794	30.0000	29.7412
18 Propylene Oxide	58	6.614	6.614	(0.717)	2619193	1500.00	1506.88
21 Trichlorotrifluoroethane	151	6.771	6.771	(0.734)	1048427	30.0000	29.7517
23 2-propanol	45	6.779	6.779	(0.734)	297469	600.000	590.240
26 Methyl Acetate	43	7.022	7.022	(0.761)	961835	150.000	143.926
28 Allyl Chloride	41	7.093	7.093	(0.768)	1789015	30.0000	30.2174
27 Carbon Disulfide	76	7.136	7.136	(0.773)	5130963	30.0000	29.8982
32 Methyl t-butyl ether	73	7.386	7.386	(0.800)	1442381	30.0000	29.9254
34 Hexane	57	7.615	7.615	(0.825)	2116238	30.0000	30.0417
35 Vinyl acetate	43	7.708	7.708	(0.835)	1504105	60.0000	59.5530

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
39 ETBE	59	8.030	8.030	(0.870)	10561483	150.000	149.839
40 Ethyl Acetate	43	8.180	8.180	(0.886)	596580	60.0000	60.8087
42 sec-Butyl Alcohol	45	8.237	8.237	(0.892)	476696	900.000	920.665
49 Tetrahydrofuran	42	8.530	8.530	(0.924)	143319	60.0000	59.6616
53 Cyclohexane	56	8.824	8.824	(0.956)	2441604	30.0000	30.2810
57 TAME	73	9.017	9.017	(0.977)	8546613	150.000	151.891
67 Methyl Cyclohexane	55	9.739	9.739	(1.055)	2000960	30.0000	30.3435
65 2-Pentanone	43	9.560	9.560	(1.036)	733954	120.000	121.238
66 Methyl Methacrylate	100	9.646	9.646	(1.045)	193370	60.0000	64.5600
74 2-nitropropane	41	10.061	10.061	(1.090)	82366	30.0000	29.6917
75 2-Chloroethyl vinyl ether	63	10.046	10.046	(1.088)	277183	30.0000	32.8427
85 Ethyl methacrylate	69	10.625	10.625	(0.904)	1063746	60.0000	66.8954
92 Tetrahydrothiophene	60	11.298	11.298	(0.962)	256592	30.0000	31.5779
105 cis-1,4-dichloro-2-butene	53	12.599	12.599	(0.905)	103296	30.0000	31.3994
109 t-1,4-Dichloro-2-butene	53	12.849	12.849	(0.923)	103203	30.0000	30.7925
123 1,2,3-Trimethylbenzene	105	13.943	13.943	(1.002)	3919868	30.0000	30.6522

Data File: Q2764.D

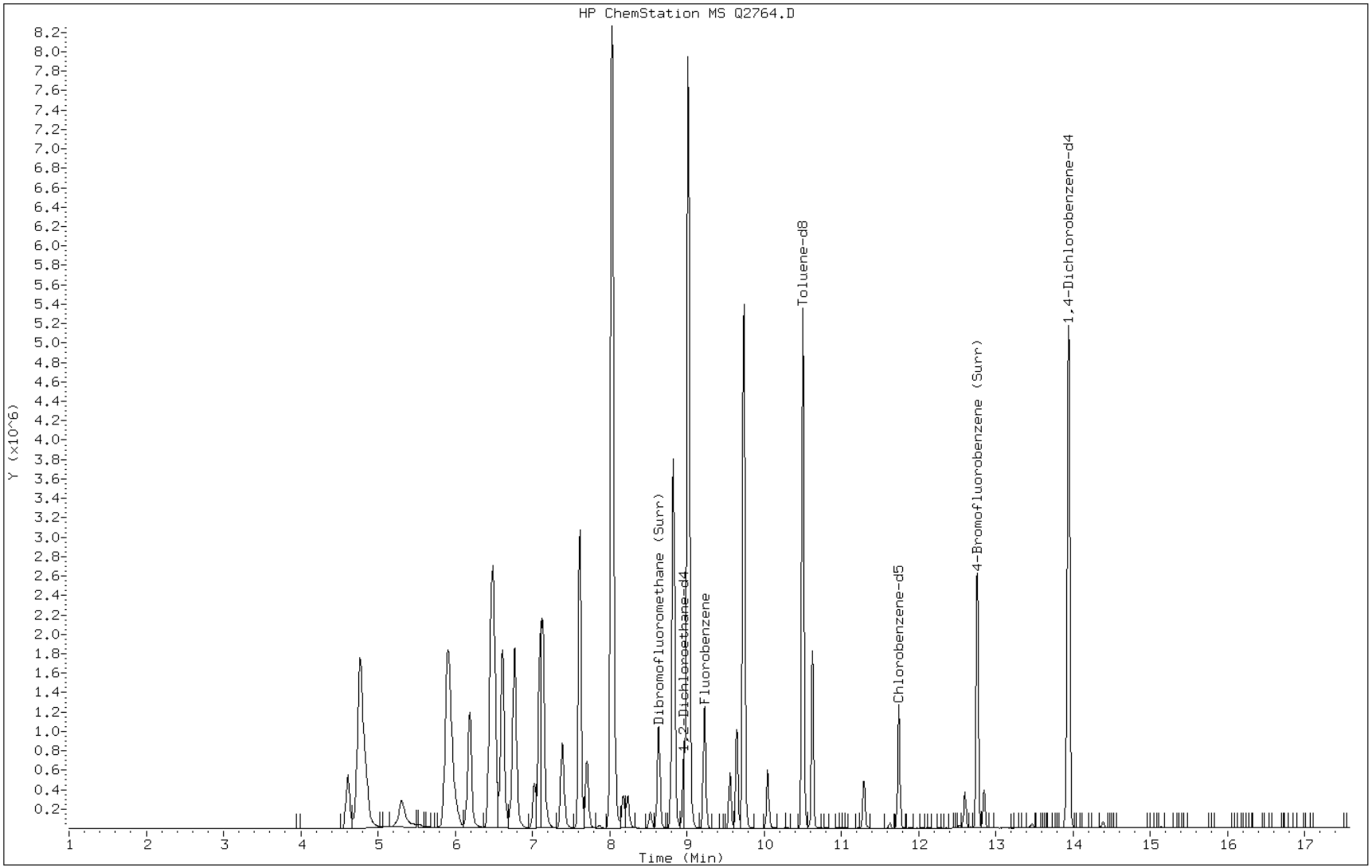
Date: 16-DEC-2011 14:24

Client ID: IC

Instrument: Q.i

Sample Info: IC,,S30

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2765.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 16-DEC-2011 14:46
Operator : MEIERG Inst ID: Q.i
Smp Info : IC,,S60
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 15:03 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 14:24 Cal File: Q2764.D
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 60 Fluorobenzene	96	9.226	9.226	(1.000)	1511569	12.5000	
* 95 Chlorobenzene-d5	119	11.743	11.743	(1.000)	299498	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.923	13.923	(1.000)	393421	12.5000	
$ 50 Dibromofluoromethane (Surr)	111	8.632	8.632	(0.936)	1889677	60.0000	56.1747
$ 56 1,2-Dichloroethane-d4	65	8.961	8.961	(0.971)	1414002	60.0000	54.3187
$ 82 Toluene-d8	98	10.499	10.499	(0.894)	9043461	60.0000	56.8136
$ 107 4-Bromofluorobenzene (Surr)	95	12.758	12.758	(0.916)	2577791	60.0000	55.1030
6 1,2-Dichlorotetrafluoroethane	85	5.300	5.300	(0.575)	1059367	60.0000	59.0939
9 Ethylene Oxide	43	5.908	5.908	(0.640)	2851786	7500.00	7446.52
12 Dichlorofluoromethane	67	6.187	6.187	(0.671)	4879333	60.0000	59.4508
16 Ethyl Ether	59	6.494	6.494	(0.704)	924996	60.0000	61.6634(A)
15 1,2-dichloro-1,1,2-trifluoro	117	6.459	6.459	(0.700)	2939832	60.0000	60.6824(A)
17 2,2-dichloro-1,1,1-trifluoro	83	6.494	6.494	(0.704)	3968618	60.0000	60.9117(A)
18 Propylene Oxide	58	6.609	6.609	(0.716)	5409178	3000.00	3068.74(A)
21 Trichlorotrifluoroethane	151	6.766	6.766	(0.733)	2156071	60.0000	60.3327(A)
23 2-propanol	45	6.780	6.780	(0.735)	626877	1200.00	1226.55(A)
26 Methyl Acetate	43	7.024	7.024	(0.761)	2002780	300.000	295.521
28 Allyl Chloride	41	7.095	7.095	(0.769)	3690521	60.0000	61.4678(A)
27 Carbon Disulfide	76	7.131	7.131	(0.773)	10652574	60.0000	61.2091(A)
32 Methyl t-butyl ether	73	7.388	7.388	(0.801)	3023523	60.0000	61.8570(A)
34 Hexane	57	7.610	7.610	(0.825)	4313736	60.0000	60.3851(A)
35 Vinyl acetate	43	7.710	7.710	(0.836)	3012549	120.000	117.619

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
39 ETBE	59	8.032	8.032	(0.871)	20821709	300.000	291.294
40 Ethyl Acetate	43	8.175	8.175	(0.886)	1236280	120.000	124.260(A)
42 sec-Butyl Alcohol	45	8.232	8.232	(0.892)	1011455	1800.00	1926.30(A)
49 Tetrahydrofuran	42	8.525	8.525	(0.924)	298759	120.000	122.639(A)
53 Cyclohexane	56	8.825	8.825	(0.957)	5049368	60.0000	61.7515(A)
57 TAME	73	9.018	9.018	(0.978)	17328431	300.000	303.678(A)
67 Methyl Cyclohexane	55	9.733	9.733	(1.055)	4096623	60.0000	61.2589(A)
65 2-Pentanone	43	9.562	9.562	(1.036)	1546260	240.000	251.865(A)
66 Methyl Methacrylate	100	9.648	9.648	(1.046)	418952	120.000	137.929(A)
74 2-nitropropane	41	10.055	10.055	(1.090)	171687	60.0000	61.0296(A)
75 2-Chloroethyl vinyl ether	63	10.041	10.041	(1.088)	583032	60.0000	68.1209(A)
85 Ethyl methacrylate	69	10.627	10.627	(0.905)	2285304	120.000	139.296(A)
92 Tetrahydrothiophene	60	11.292	11.292	(0.962)	551506	60.0000	65.7850(A)
105 cis-1,4-dichloro-2-butene	53	12.601	12.601	(0.905)	221076	60.0000	62.8103(A)
109 t-1,4-Dichloro-2-butene	53	12.851	12.851	(0.923)	222704	60.0000	62.1059(A)
123 1,2,3-Trimethylbenzene	105	13.945	13.945	(1.002)	8457610	60.0000	61.8144(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: Q2765.D

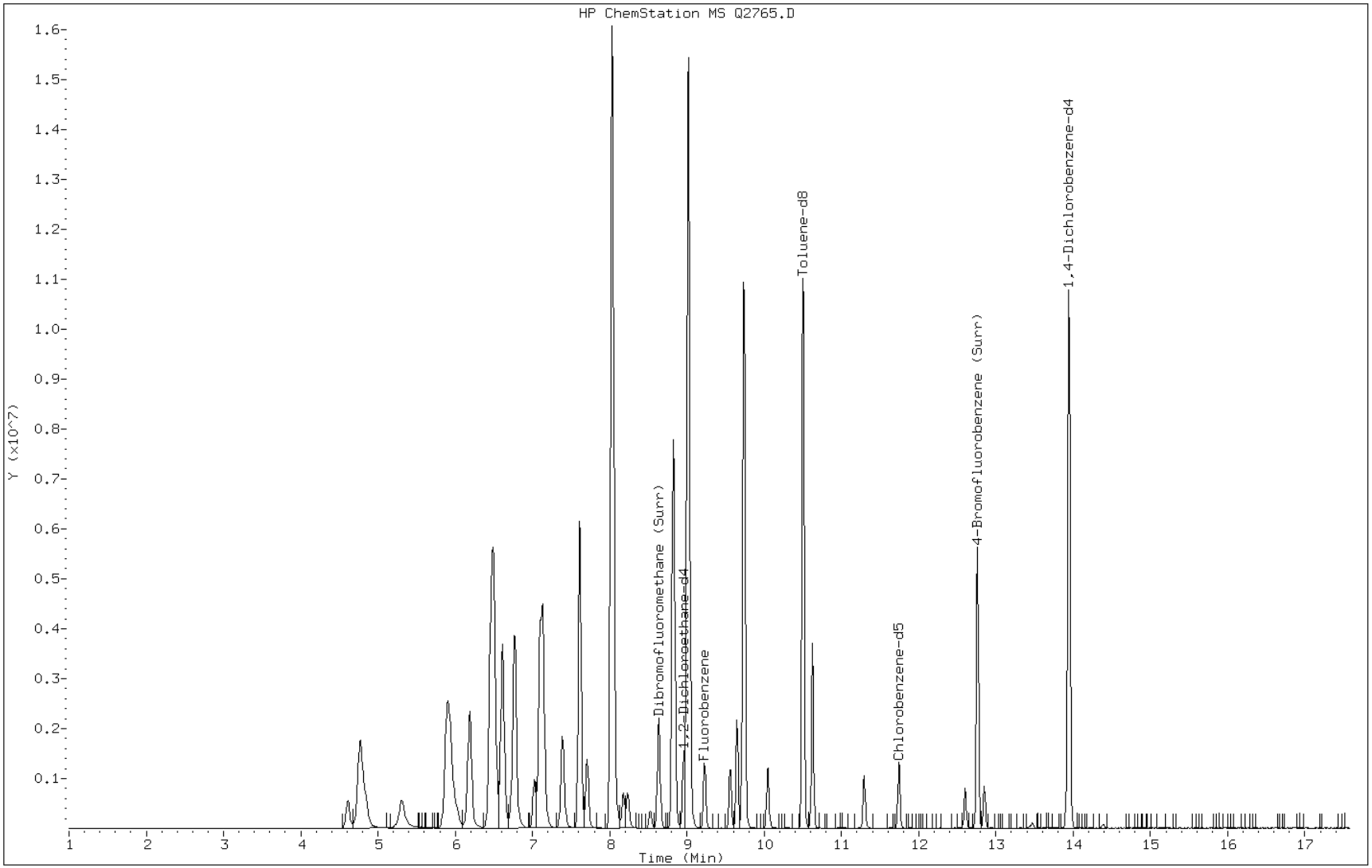
Date: 16-DEC-2011 14:46

Client ID: IC

Instrument: Q.i

Sample Info: IC,,S60

Operator: MEIERG



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICV 280-100335/9 Calibration Date: 12/16/2011 11:50

Instrument ID: MSV_Q Calib Start Date: 12/16/2011 09:16

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 12/16/2011 11:28

Lab File ID: Q2757.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0008	0.0006		159	200	-20.3	50.0
2-Chloro-1,3-butadiene	Ave	0.5686	0.4145		7.29	10.0	-27.1	35.0
Propionitrile	Ave	0.0092	0.0076		82.0	100	-18.0	35.0
Methacrylonitrile	Ave	0.0475	0.0401		84.5	100	-15.5	50.0
Isobutyl alcohol	Ave	0.0021	0.0017		160	200	-19.8	50.0
1,4-Dioxane	Ave	0.0008	0.0007		168	200	-16.2	55.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2757.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 16-DEC-2011 11:50
Operator : MEIERG Inst ID: Q.i
Smp Info : ICV,,B
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 14:28 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 11:28 Cal File: Q2756.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICVB.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 60 Fluorobenzene	96	9.231	9.224	(1.000)	1579116	12.5000	
* 95 Chlorobenzene-d5	119	11.748	11.748	(1.000)	315930	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.929	13.929	(1.000)	383170	12.5000	
14 Ethanol	45	6.328	6.329	(0.686)	15699	159.365	159.365(a)
38 Chloroprene	53	7.873	7.866	(0.853)	523669	7.29007	7.29007
45 Propionitrile	54	8.273	8.266	(0.896)	95602	82.0485	82.0485
46 Methacrylonitrile	41	8.409	8.409	(0.911)	506921	84.4680	84.4680
52 Isobutanol	41	8.688	8.688	(0.941)	42177	160.459	160.459
70 1,4-Dioxane	88	9.782	9.782	(1.060)	17046	167.641	167.641

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: Q2757.D

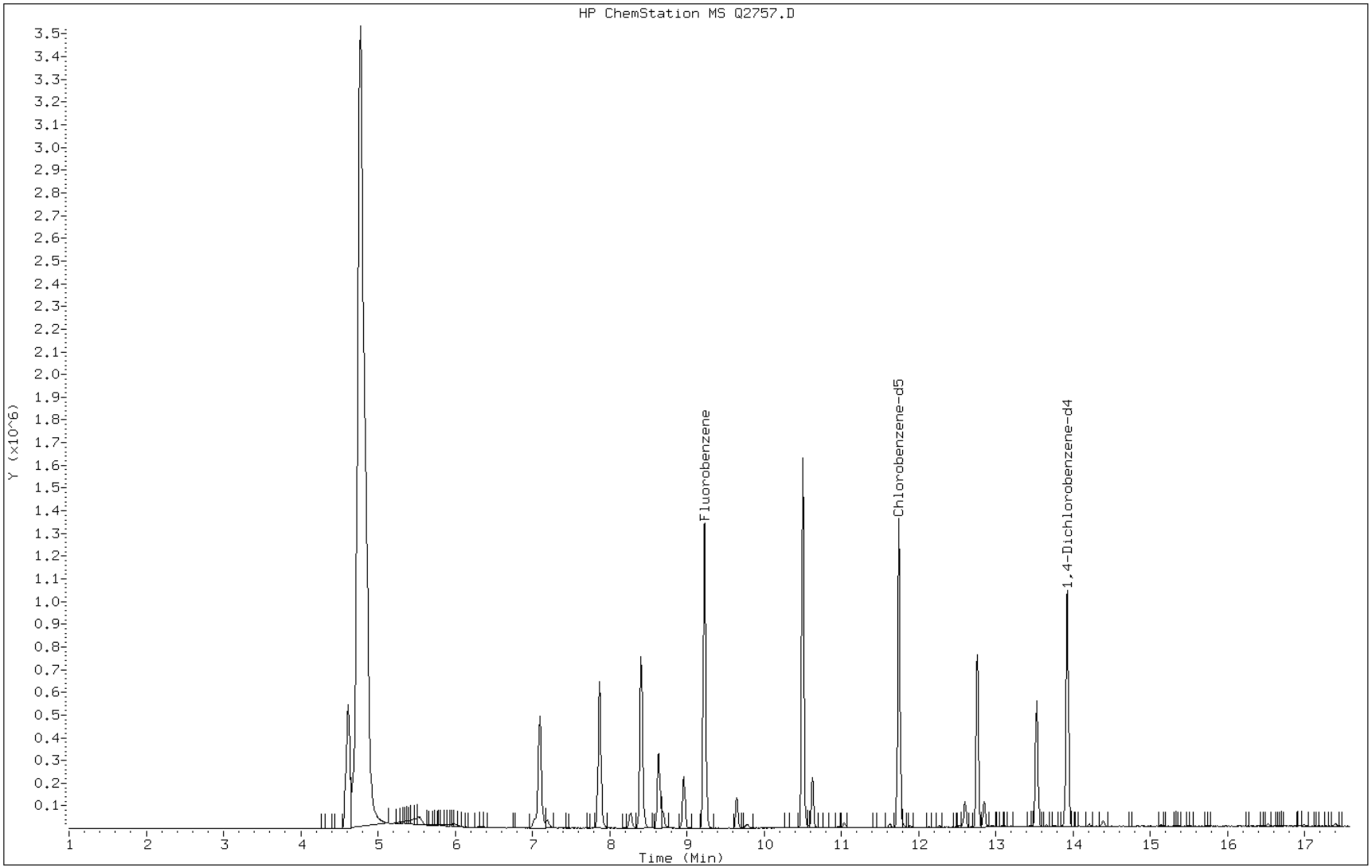
Date: 16-DEC-2011 11:50

Client ID: ICV

Instrument: Q.i

Sample Info: ICV,,B

Operator: MEIERG



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICV 280-100335/10 Calibration Date: 12/16/2011 12:12

Instrument ID: MSV_Q Calib Start Date: 12/16/2011 09:16

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 12/16/2011 11:28

Lab File ID: Q2758.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.3330	0.3344		20.1	20.0	0.4	35.0
Xylenes, Total	Ave	3.150	2.962		28.2	30.0	-6.0	35.0
Dichlorodifluoromethane	Ave	0.3284	0.3713		11.3	10.0	13.0	20.0
Chloromethane	Ave	0.3356	0.3556	0.1000	10.6	10.0	6.0	20.0
Vinyl chloride	Ave	0.3894	0.4147		10.6	10.0	6.5	20.0
Bromomethane	Ave	0.2668	0.2804		10.5	10.0	5.1	20.0
Chloroethane	Ave	0.2323	0.2447		10.5	10.0	5.3	20.0
Trichlorofluoromethane	Ave	0.5485	0.5642		10.3	10.0	2.9	20.0
Acrolein	Ave	0.0111	0.0109		98.4	100	-1.6	55.0
Acetone	Ave	0.0198	0.0189		38.2	40.0	-4.5	20.0
1,1-Dichloroethene	Ave	0.2981	0.3331		11.2	10.0	11.7	20.0
Iodomethane	Ave	0.4292	0.4351		10.1	10.0	1.4	35.0
Methylene Chloride	Ave	0.2688	0.2606		9.69	10.0	-3.1	20.0
Acrylonitrile	Ave	0.0248	0.0244		98.1	100	-1.9	55.0
trans-1,2-Dichloroethene	Ave	0.3396	0.3504		10.3	10.0	3.2	20.0
1,1-Dichloroethane	Ave	0.5573	0.5394	0.1000	9.68	10.0	-3.2	20.0
2-Butanone (MEK)	Ave	0.0282	0.0275		39.0	40.0	-2.4	20.0
cis-1,2-Dichloroethene	Ave	0.3265	0.3185		9.76	10.0	-2.4	20.0
2,2-Dichloropropane	Ave	0.5353	0.5215		9.74	10.0	-2.6	20.0
Chlorobromomethane	Ave	0.1008	0.0981		9.74	10.0	-2.6	20.0
Chloroform	Ave	0.4954	0.4793		9.68	10.0	-3.2	20.0
1,1,1-Trichloroethane	Ave	0.5560	0.5276		9.49	10.0	-5.1	20.0
1,1-Dichloropropene	Ave	0.5186	0.5026		9.69	10.0	-3.1	20.0
Carbon tetrachloride	Ave	0.4687	0.4639		9.90	10.0	-1.0	20.0
1,2-Dichloroethane	Ave	0.2349	0.2249		9.57	10.0	-4.3	20.0
Benzene	Ave	1.274	1.246		9.77	10.0	-2.3	20.0
Trichloroethene	Ave	0.3514	0.3423		9.74	10.0	-2.6	20.0
1,2-Dichloropropane	Ave	0.2552	0.2414		9.46	10.0	-5.4	20.0
Dibromomethane	Ave	0.0932	0.0857		9.19	10.0	-8.1	20.0
Dichlorobromomethane	Ave	0.2812	0.2753		9.79	10.0	-2.1	20.0
cis-1,3-Dichloropropene	Ave	0.3425	0.3311		9.67	10.0	-3.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0642	0.0648		40.4	40.0	1.0	20.0
Toluene	Ave	1.428	1.363		9.55	10.0	-4.5	20.0
trans-1,3-Dichloropropene	Ave	0.2539	0.2408		9.48	10.0	-5.2	20.0
1,1,2-Trichloroethane	Ave	0.1209	0.1161		9.60	10.0	-4.0	20.0
2-Hexanone	Ave	0.2118	0.2086		39.4	40.0	-1.5	20.0
1,3-Dichloropropane	Ave	1.122	1.058		9.44	10.0	-5.6	20.0
Tetrachloroethene	Ave	1.419	1.363		9.60	10.0	-4.0	20.0
Chlorodibromomethane	Ave	0.6919	0.6928		10.0	10.0	0.1	20.0
Ethylene Dibromide	Ave	0.5436	0.5139		9.45	10.0	-5.5	20.0
1-Chlorohexane	Ave	2.697	2.486		9.22	10.0	-7.8	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICV 280-100335/10 Calibration Date: 12/16/2011 12:12

Instrument ID: MSV_Q Calib Start Date: 12/16/2011 09:16

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 12/16/2011 11:28

Lab File ID: Q2758.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	4.012	3.858	0.3000	9.62	10.0	-3.8	20.0
1,1,1,2-Tetrachloroethane	Ave	1.151	1.129		9.81	10.0	-1.9	20.0
Ethylbenzene	Ave	2.619	2.513		9.60	10.0	-4.0	20.0
m-Xylene & p-Xylene	Ave	3.265	3.079		18.9	20.0	-5.7	20.0
o-Xylene	Ave	2.920	2.728		9.34	10.0	-6.6	20.0
Styrene	Ave	4.113	3.945		9.59	10.0	-4.1	20.0
Bromoform	Ave	0.3009	0.2951	0.1000	9.81	10.0	-1.9	20.0
Isopropylbenzene	Ave	5.925	6.402		10.8	10.0	8.0	20.0
Cyclohexanone	Ave	0.0080	0.0078		245	250	-2.0	35.0
1,1,2,2-Tetrachloroethane	Ave	0.4398	0.4245	0.3000	9.65	10.0	-3.5	20.0
1,2,3-Trichloropropane	Ave	0.1225	0.1141		9.32	10.0	-6.8	20.0
N-Propylbenzene	Ave	1.852	1.775		9.58	10.0	-4.2	20.0
Bromobenzene	Ave	1.021	0.9919		9.71	10.0	-2.9	20.0
1,3,5-Trimethylbenzene	Ave	5.129	4.940		9.63	10.0	-3.7	20.0
2-Chlorotoluene	Ave	1.405	1.346		9.58	10.0	-4.2	20.0
4-Chlorotoluene	Ave	1.364	1.317		9.65	10.0	-3.5	20.0
tert-Butylbenzene	Ave	5.252	5.120		9.75	10.0	-2.5	20.0
1,2,4-Trimethylbenzene	Ave	4.968	4.711		9.48	10.0	-5.2	20.0
sec-Butylbenzene	Ave	1.494	1.436		9.61	10.0	-3.9	20.0
4-Isopropyltoluene	Ave	5.899	5.524		9.36	10.0	-6.4	20.0
1,3-Dichlorobenzene	Ave	2.200	2.169		9.86	10.0	-1.4	20.0
1,4-Dichlorobenzene	Ave	2.110	2.043		9.68	10.0	-3.2	20.0
n-Butylbenzene	Ave	5.627	5.308		9.43	10.0	-5.7	20.0
1,2-Dichlorobenzene	Ave	1.676	1.625		9.69	10.0	-3.1	20.0
1,2-Dibromo-3-Chloropropane	Lin2	0.0562	0.0515		8.71	10.0	-12.9	20.0
1,2,4-Trichlorobenzene	Ave	1.026	0.9306		9.07	10.0	-9.3	20.0
Hexachlorobutadiene	Ave	0.8307	0.7591		9.14	10.0	-8.6	20.0
Naphthalene	Ave	1.225	1.113		9.08	10.0	-9.2	20.0
1,2,3-Trichlorobenzene	Ave	0.7608	0.6690		8.79	10.0	-12.1	20.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2758.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 16-DEC-2011 12:12
Operator : MEIERG Inst ID: Q.i
Smp Info : ICV,,A
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 14:28 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 11:28 Cal File: Q2756.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICVMA.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 60 Fluorobenzene	96	9.224	9.224	(1.000)	1600373	12.5000	
* 95 Chlorobenzene-d5	119	11.741	11.748	(1.000)	322069	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.922	13.929	(1.000)	405816	12.5000	
M 1 1,2-Dichloroethene (total)	96				856321	20.0719	20.0719
M 2 Xylene (total)	106				2289340	28.1997	28.1997
5 dichlorodifluoromethane	85	5.127	5.135	(0.556)	475326	11.3036	11.3036
7 Chloromethane	50	5.363	5.378	(0.581)	455257	10.5965	10.5965
8 Vinyl Chloride	62	5.528	5.542	(0.599)	530969	10.6497	10.6497
10 Bromomethane	94	5.957	5.964	(0.646)	359008	10.5086	10.5086
11 Chloroethane	64	6.043	6.043	(0.655)	313251	10.5329	10.5329
13 Trichlorofluoromethane	101	6.300	6.300	(0.683)	722366	10.2857	10.2857
19 Acrolein	56	6.665	6.665	(0.723)	139373	98.3883	98.3883
22 1,1-Dichloroethene	96	6.815	6.815	(0.739)	426426	11.1732	11.1732
20 Acetone	43	6.772	6.772	(0.734)	96984	38.2175	38.2175
24 Iodomethane	142	7.022	7.015	(0.761)	557047	10.1376	10.1376
30 Methylene Chloride	84	7.201	7.201	(0.781)	333659	9.69393	9.69393
31 Acrylonitrile	53	7.365	7.365	(0.798)	311891	98.1022	98.1022
33 trans-1,2-Dichloroethene	96	7.444	7.444	(0.807)	448556	10.3158	10.3158
37 1,1-Dichloroethane	63	7.794	7.794	(0.845)	690614	9.67899	9.67899
43 cis-1,2-Dichloroethene	96	8.266	8.266	(0.896)	407765	9.75606	9.75606
41 2-Butanone	43	8.202	8.202	(0.889)	141061	39.0370	39.0370
44 2,2-Dichloropropane	77	8.302	8.302	(0.900)	667690	9.74284	9.74284

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
47 Bromochloromethane	128	8.488	8.488	(0.920)	125608	9.73774	9.73774
48 Chloroform	83	8.488	8.495	(0.920)	613659	9.67519	9.67519
51 1,1,1-Trichloroethane	97	8.738	8.745	(0.947)	675441	9.48875	9.48875
54 1,1-Dichloropropene	75	8.845	8.845	(0.959)	643529	9.69166	9.69166
55 Carbon Tetrachloride	117	8.895	8.896	(0.964)	593877	9.89570	9.89570
59 Benzene	78	9.046	9.046	(0.981)	1594832	9.77419	9.77418
58 1,2-Dichloroethane	62	9.024	9.024	(0.978)	287925	9.57186	9.57186
64 Trichloroethene	95	9.525	9.532	(1.033)	438261	9.74109	9.74109
69 1,2-Dichloropropane	63	9.725	9.732	(1.054)	309097	9.46137	9.46137
71 Dibromomethane	93	9.839	9.839	(1.067)	109738	9.19473	9.19473
72 Bromodichloromethane	83	9.911	9.911	(1.074)	352480	9.79151	9.79151
79 cis-1,3-Dichloropropene	75	10.247	10.254	(1.111)	423909	9.66851	9.66851
80 4-Methyl-2-pentanone	43	10.297	10.297	(1.116)	332001	40.3989	40.3989
83 Toluene	91	10.554	10.561	(1.144)	1745268	9.54704	9.54704
86 trans-1,3-Dichloropropene	75	10.662	10.662	(1.156)	308277	9.48270	9.48270
87 1,1,2-Trichloroethane	97	10.847	10.847	(1.176)	148699	9.60413	9.60413
89 1,3-Dichloropropane	76	11.005	11.005	(0.937)	272713	9.43771	9.43771
90 Tetrachloroethene	164	11.033	11.041	(0.940)	351073	9.60030	9.60030
88 2-Hexanone	43	10.962	10.962	(0.934)	215004	39.4060	39.4060
91 Dibromochloromethane	129	11.234	11.234	(0.957)	178496	10.0119	10.0119
93 1,2-Dibromoethane	107	11.391	11.391	(0.970)	132414	9.45409	9.45409
94 1-Chlorohexane	91	11.620	11.620	(0.990)	640501	9.21810	9.21810
96 Chlorobenzene	112	11.770	11.777	(1.002)	993949	9.61616	9.61616
97 1,1,1,2-Tetrachloroethane	131	11.806	11.806	(1.005)	290998	9.81451	9.81451
98 Ethylbenzene	106	11.806	11.806	(1.005)	647601	9.59775	9.59775
99 m and p-Xylene	106	11.891	11.891	(1.013)	1586512	18.8583	18.8583
101 o-Xylene	106	12.263	12.270	(1.044)	702828	9.34139	9.34139
102 Styrene	104	12.263	12.263	(1.044)	1016356	9.59162	9.59162
103 Bromoform	173	12.521	12.521	(1.066)	76040	9.80664	9.80664
104 isopropyl benzene	105	12.571	12.571	(0.903)	2078432	10.8050	10.8050
106 Cyclohexanone	55	12.742	12.742	(0.915)	63508	245.009	245.009
108 1,1,2,2-Tetrachloroethane	83	12.814	12.814	(0.920)	137821	9.65228	9.65228
111 Bromobenzene	156	12.971	12.971	(0.932)	322019	9.71149	9.71149
110 1,2,3-Trichloropropane	110	12.907	12.907	(0.927)	37051	9.31831	9.31830
112 n-Propylbenzene	120	12.950	12.950	(0.930)	576225	9.58449	9.58448
113 2-Chlorotoluene	126	13.107	13.107	(0.941)	436883	9.57797	9.57797
114 1,3,5-Trimethylbenzene	105	13.071	13.078	(0.939)	1603861	9.63285	9.63285
115 4-Chlorotoluene	126	13.200	13.200	(0.948)	427500	9.65113	9.65113
116 tert-Butylbenzene	119	13.436	13.443	(0.965)	1662117	9.74819	9.74819
117 1,2,4-Trimethylbenzene	105	13.472	13.472	(0.968)	1529493	9.48215	9.48215
118 sec-Butylbenzene	134	13.657	13.657	(0.981)	466119	9.61252	9.61252
119 4-Isopropyltoluene	119	13.765	13.765	(0.989)	1793504	9.36463	9.36463
120 1,3-Dichlorobenzene	146	13.872	13.872	(0.996)	704167	9.86090	9.86090
122 1,4-dichlorobenzene	146	13.951	13.951	(1.002)	663183	9.68074	9.68074
124 n-Butylbenzene	91	14.215	14.215	(1.021)	1723351	9.43420	9.43420
125 1,2-Dichlorobenzene	146	14.401	14.401	(1.034)	527604	9.69484	9.69484
126 1,2-Dibromo-3-chloropropane	157	15.331	15.331	(1.101)	16733	8.71088	8.71088
127 1,2,4-Trichlorobenzene	180	16.525	16.525	(1.187)	302106	9.06540	9.06540
128 Hexachlorobutadiene	225	16.703	16.703	(1.200)	246434	9.13722	9.13722
129 Naphthalene	128	16.997	16.997	(1.221)	361315	9.08272	9.08272
130 1,2,3-Trichlorobenzene	180	17.404	17.404	(1.250)	217201	8.79314	8.79314

Data File: Q2758.D

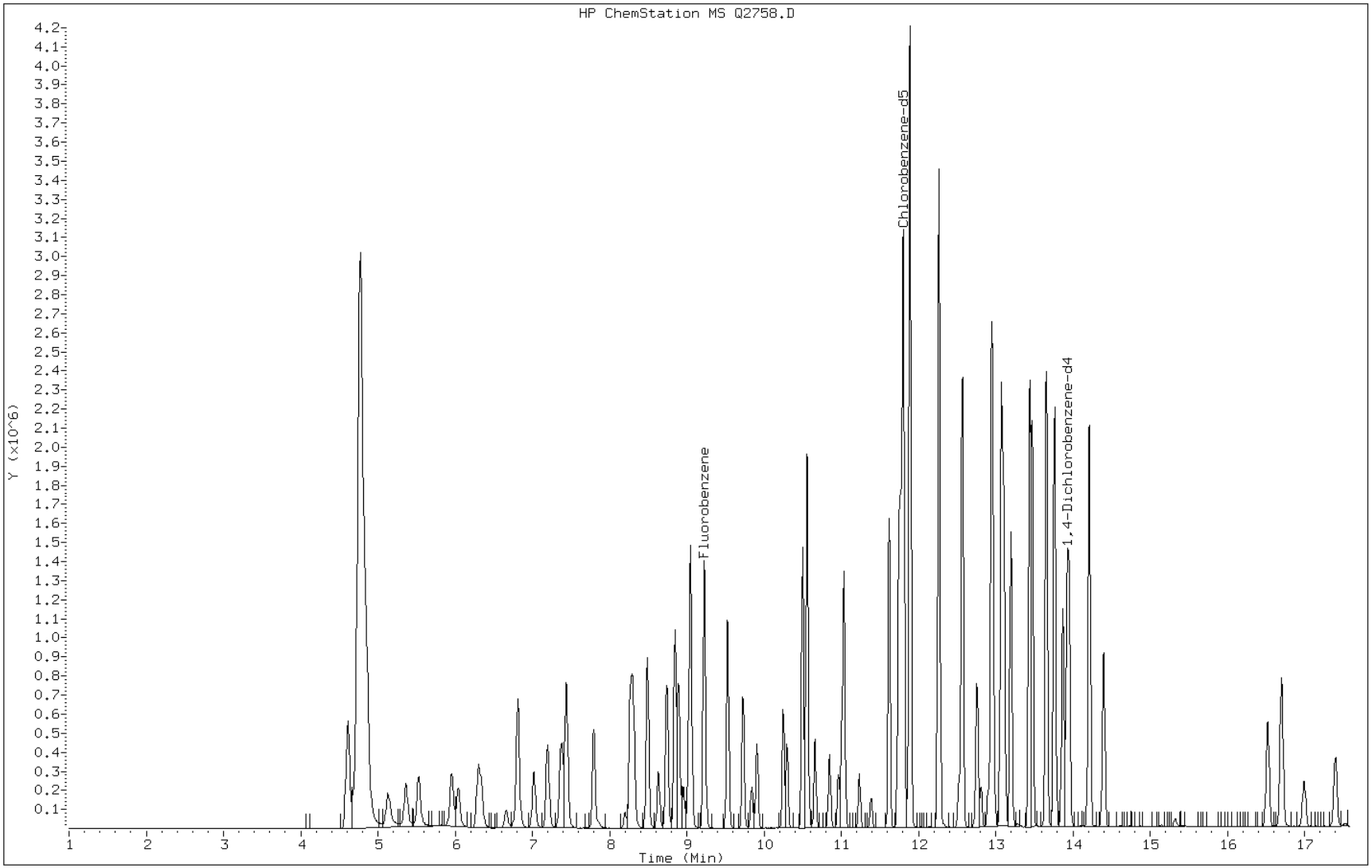
Date: 16-DEC-2011 12:12

Client ID: ICV

Instrument: Q.i

Sample Info: ICV,,A

Operator: MEIERG



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICV 280-100335/18 Calibration Date: 12/16/2011 15:08

Instrument ID: MSV_Q Calib Start Date: 12/16/2011 12:56

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 12/16/2011 14:46

Lab File ID: Q2766.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorofluoromethane	Ave	0.6787	0.6747		9.94	10.0	-0.6	50.0
2,2-Dichloro-1,1,1-trifluoro ethane	Ave	0.5388	0.5404		10.0	10.0	0.3	50.0
Ethyl ether	Ave	0.1240	0.1219		9.82	10.0	-1.8	35.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2955	0.3034		10.3	10.0	2.7	35.0
Isopropyl alcohol	Ave	0.0042	0.0040		188	200	-6.0	50.0
Methyl acetate	Ave	0.0560	0.0293		26.1	50.0	-47.8	55.0
Allyl chloride	Ave	0.4965	0.5089		10.3	10.0	2.5	35.0
Carbon disulfide	Ave	1.439	1.454		10.1	10.0	1.0	20.0
Methyl tert-butyl ether	Ave	0.4042	0.3855		9.54	10.0	-4.6	20.0
Hexane	Ave	0.5908	0.6079		10.3	10.0	2.9	35.0
Tert-butyl ethyl ether	Ave	0.5911	0.5851		49.5	50.0	-1.0	35.0
Ethyl acetate	Ave	0.0823	0.0471		11.4	20.0	-42.8	55.0
2-Butanol	Ave	0.0043	0.0045		310	300	3.2	50.0
Tetrahydrofuran	Ave	0.0201	0.0187		18.5	20.0	-7.3	55.0
Cyclohexane	Ave	0.6762	0.6766		10.0	10.0	0.0	35.0
Tert-amyl methyl ether	Ave	0.4719	0.4541		48.1	50.0	-3.8	35.0
2-Pentanone	Ave	0.0508	0.0558		44.0	40.0	9.9	55.0
Methyl methacrylate	Ave	0.0251	0.0261		20.8	20.0	3.9	35.0
Methylcyclohexane	Ave	0.5530	0.5529		10.0	10.0	-0.0	35.0
2-Chloroethyl vinyl ether	Ave	0.0708	0.0537		7.58	10.0	-24.2	55.0
2-Nitropropane	Ave	0.0233	0.0211		9.07	10.0	-9.3	55.0
Ethyl methacrylate	Ave	0.6847	0.6604		19.3	20.0	-3.6	35.0
cis-1,4-Dichloro-2-butene	Ave	0.1118	0.1333		11.9	10.0	19.2	55.0
trans-1,4-Dichloro-2-butene	Ave	0.1139	0.1068		9.37	10.0	-6.3	55.0
Dibromofluoromethane (Surr)	Ave	0.2782	0.2881		7.25	7.00	3.6	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2153	0.2233		7.26	7.00	3.7	35.0
Toluene-d8 (Surr)	Ave	6.644	7.060		7.44	7.00	6.3	35.0
4-Bromofluorobenzene (Surr)	Ave	1.486	1.561		7.35	7.00	5.0	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2766.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 16-DEC-2011 15:08
Operator : MEIERG Inst ID: Q.i
Smp Info : ICV,,S
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\8260B-H2O.m
Meth Date : 16-Dec-2011 15:23 meierg Quant Type: ISTD
Cal Date : 16-DEC-2011 14:46 Cal File: Q2765.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp-.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 60 Fluorobenzene	96	9.231	9.226	(1.000)	1488736	12.5000	
* 95 Chlorobenzene-d5	119	11.748	11.743	(1.000)	288756	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.928	13.923	(1.000)	343529	12.5000	
$ 50 Dibromofluoromethane (Surr)	111	8.637	8.632	(0.936)	240206	7.25016	7.25016(R)
$ 56 1,2-Dichloroethane-d4	65	8.959	8.961	(0.971)	186118	7.25936	7.25936(R)
$ 82 Toluene-d8	98	10.503	10.499	(0.894)	1141588	7.43859	7.43859(R)
$ 107 4-Bromofluorobenzene (Surr)	95	12.763	12.758	(0.916)	300359	7.35296	7.35296(R)
6 1,2-Dichlorotetrafluoroethane	85	5.305	5.300	(0.575)	560227	31.7300	31.7300
9 Ethylene Oxide	43	5.913	5.908	(0.641)	733880	1024.52	1024.52
12 Dichlorofluoromethane	67	6.185	6.187	(0.670)	803542	9.94069	9.94069
16 Ethyl Ether	59	6.499	6.494	(0.704)	145140	9.82393	9.82392
15 1,2-dichloro-1,1,2-trifluoro	117	6.464	6.459	(0.700)	425163	8.91058	8.91058
17 2,2-dichloro-1,1,1-trifluoro	83	6.499	6.494	(0.704)	643650	10.0305	10.0305
18 Propylene Oxide	58	6.614	6.609	(0.717)	1177620	678.335	678.335
21 Trichlorotrifluoroethane	151	6.771	6.766	(0.734)	361328	10.2660	10.2660
23 2-propanol	45	6.785	6.780	(0.735)	94591	187.916	187.916
26 Methyl Acetate	43	7.028	7.024	(0.761)	174251	26.1061	26.1061(Q)
28 Allyl Chloride	41	7.100	7.095	(0.769)	606125	10.2502	10.2502
27 Carbon Disulfide	76	7.136	7.131	(0.773)	1731354	10.1008	10.1008
32 Methyl t-butyl ether	73	7.393	7.388	(0.801)	459175	9.53815	9.53815
34 Hexane	57	7.615	7.610	(0.825)	723958	10.2896	10.2896
39 ETBE	59	8.029	8.032	(0.870)	3484428	49.4945	49.4945

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
40	Ethyl Acetate	43	8.180	8.175	(0.886)	112087	11.4388	11.4388(Q)
42	sec-Butyl Alcohol	45	8.237	8.232	(0.892)	160074	309.533	309.533
49	Tetrahydrofuran	42	8.530	8.525	(0.924)	44482	18.5397	18.5397
53	Cyclohexane	56	8.823	8.825	(0.956)	805850	10.0063	10.0063
57	TAME	73	9.016	9.018	(0.977)	2704302	48.1194	48.1194
67	Methyl Cyclohexane	55	9.738	9.733	(1.055)	658505	9.99799	9.99799
65	2-Pentanone	43	9.560	9.562	(1.036)	265828	43.9639	43.9639
66	Methyl Methacrylate	100	9.645	9.648	(1.045)	62150	20.7750	20.7750
74	2-nitropropane	41	10.060	10.055	(1.090)	25127	9.06890	9.06890
75	2-Chloroethyl vinyl ether	63	10.046	10.041	(1.088)	63934	7.58456	7.58456
85	Ethyl methacrylate	69	10.625	10.627	(0.904)	305090	19.2879	19.2879
92	Tetrahydrothiophene	60	11.297	11.292	(0.962)	86050	10.6461	10.6461
105	cis-1,4-dichloro-2-butene	53	12.598	12.601	(0.905)	36623	11.9162	11.9162
109	t-1,4-Dichloro-2-butene	53	12.849	12.851	(0.922)	29340	9.37042	9.37042
123	1,2,3-Trimethylbenzene	105	13.950	13.945	(1.002)	1179695	9.87429	9.87429

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: Q2766.D

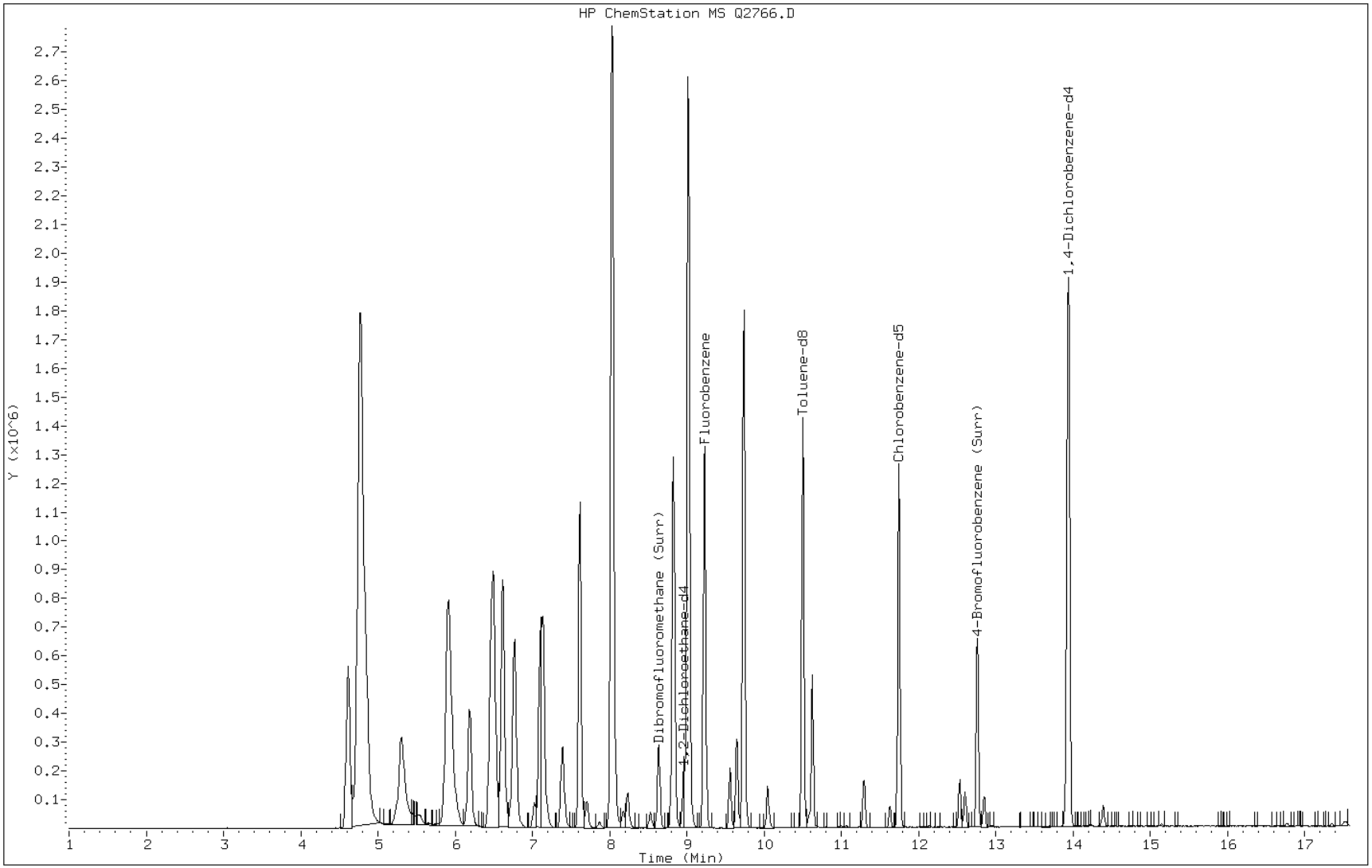
Date: 16-DEC-2011 15:08

Client ID: ICV

Instrument: Q.i

Sample Info: ICV,,S

Operator: MEIERG



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: CCV 280-101066/2 Calibration Date: 12/21/2011 08:32

Instrument ID: MSV_Q Calib Start Date: 12/16/2011 12:56

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 12/16/2011 14:46

Lab File ID: Q2982.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorofluoromethane	Ave	0.6787	0.6498		9.57	10.0	-4.3	50.0
Ethyl ether	Ave	0.1240	0.1188		9.58	10.0	-4.2	35.0
2,2-Dichloro-1,1,1-trifluoro ethane	Ave	0.5388	0.5064		9.40	10.0	-6.0	50.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2955	0.2503		8.47	10.0	-15.3	50.0
Isopropyl alcohol	Ave	0.0042	0.0041		194	200	-2.8	50.0
Methyl acetate	Ave	0.0560	0.0553		49.3	50.0	-1.4	50.0
Allyl chloride	Ave	0.4965	0.4546		9.16	10.0	-8.4	35.0
Carbon disulfide	Ave	1.439	1.355		9.41	10.0	-5.9	20.0
Methyl tert-butyl ether	Ave	0.4042	0.3649		9.03	10.0	-9.7	20.0
Hexane	Ave	0.5908	0.5041		8.53	10.0	-14.7	35.0
Vinyl acetate	Ave	0.2118	0.2193		20.7	20.0	3.5	50.0
Tert-butyl ethyl ether	Ave	0.5911	0.5691		48.1	50.0	-3.7	35.0
Ethyl acetate	Ave	0.0823	0.0699		17.0	20.0	-15.1	50.0
Tetrahydrofuran	Ave	0.0201	0.0182		18.0	20.0	-9.9	50.0
Cyclohexane	Ave	0.6762	0.6206		9.18	10.0	-8.2	35.0
Tert-amyl methyl ether	Ave	0.4719	0.4429		46.9	50.0	-6.1	35.0
2-Pentanone	Ave	0.0508	0.0479		37.8	40.0	-5.6	50.0
Methyl methacrylate	Ave	0.0251	0.0227		18.1	20.0	-9.7	35.0
Methylcyclohexane	Ave	0.5530	0.5135		9.28	10.0	-7.2	35.0
2-Chloroethyl vinyl ether	Ave	0.0708	0.0595		8.40	10.0	-16.0	50.0
2-Nitropropane	Ave	0.0233	0.0216		9.28	10.0	-7.2	50.0
Ethyl methacrylate	Ave	0.6847	0.6071		17.7	20.0	-11.3	35.0
cis-1,4-Dichloro-2-butene	Ave	0.1118	0.0864		7.72	10.0	-22.8	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1139	0.0869		7.63	10.0	-23.7	50.0
Dibromofluoromethane (Surr)	Ave	0.2782	0.2742		9.86	10.0	-1.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2153	0.2176		10.1	10.0	1.1	20.0
Toluene-d8 (Surr)	Ave	6.644	6.294		9.47	10.0	-5.3	20.0
4-Bromofluorobenzene (Surr)	Ave	1.486	1.358		9.14	10.0	-8.6	20.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\Q2982.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 21-DEC-2011 08:32
Operator : MEIERG Inst ID: Q.i
Smp Info : CCV,,S
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\8260B-H2O.m
Meth Date : 22-Dec-2011 06:41 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 13:18 Cal File: Q2761.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 60 Fluorobenzene	96	9.223	9.223	(1.000)	1143340	12.5000	
* 95 Chlorobenzene-d5	119	11.740	11.740	(1.000)	231255	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.921	13.921	(1.000)	266009	12.5000	
$ 50 Dibromofluoromethane (Surr)	111	8.630	8.630	(0.936)	250837	10.0000	9.85820
$ 56 1,2-Dichloroethane-d4	65	8.959	8.959	(0.971)	199029	10.0000	10.1081
$ 82 Toluene-d8	98	10.496	10.496	(0.894)	1164482	10.0000	9.47444
$ 107 4-Bromofluorobenzene (Surr)	95	12.756	12.756	(0.916)	289013	10.0000	9.13705
6 1,2-Dichlorotetrafluoroethane	85	5.298	5.298	(0.574)	73801	10.0000	5.44266
9 Ethylene Oxide	43	5.906	5.906	(0.640)	508806	1250.00	907.525
12 Dichlorofluoromethane	67	6.185	6.185	(0.671)	594334	10.0000	9.57372
16 Ethyl Ether	59	6.492	6.492	(0.704)	108685	10.0000	9.57877
15 1,2-dichloro-1,1,2-trifluoro	117	6.464	6.464	(0.701)	333164	10.0000	9.09182
17 2,2-dichloro-1,1,1-trifluoro	83	6.499	6.499	(0.705)	463193	10.0000	9.39888
18 Propylene Oxide	58	6.607	6.607	(0.716)	672624	500.000	504.491
21 Trichlorotrifluoroethane	151	6.764	6.764	(0.733)	228972	10.0000	8.47081
23 2-propanol	45	6.778	6.778	(0.735)	75150	200.000	194.395
26 Methyl Acetate	43	7.021	7.021	(0.761)	252749	50.0000	49.3058
28 Allyl Chloride	41	7.093	7.093	(0.769)	415824	10.0000	9.15634
27 Carbon Disulfide	76	7.128	7.128	(0.773)	1239107	10.0000	9.41289
32 Methyl t-butyl ether	73	7.386	7.386	(0.801)	333774	10.0000	9.02778
34 Hexane	57	7.608	7.608	(0.825)	461036	10.0000	8.53225
35 Vinyl acetate	43	7.708	7.708	(0.836)	401106	20.0000	20.7040

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
39 ETBE	59	8.029	8.029	(0.871)	2602609	50.0000	48.1368
40 Ethyl Acetate	43	8.172	8.172	(0.886)	127812	20.0000	16.9839
42 sec-Butyl Alcohol	45	8.230	8.230	(0.892)	106917	300.000	269.200
49 Tetrahydrofuran	42	8.523	8.523	(0.924)	33213	20.0000	18.0247
53 Cyclohexane	56	8.823	8.823	(0.957)	567637	10.0000	9.17770
57 TAME	73	9.016	9.016	(0.978)	2025458	50.0000	46.9278
67 Methyl Cyclohexane	55	9.731	9.731	(1.055)	469645	10.0000	9.28465
65 2-Pentanone	43	9.560	9.560	(1.036)	175384	40.0000	37.7683
66 Methyl Methacrylate	100	9.645	9.645	(1.046)	41499	20.0000	18.0626
74 2-nitropropane	41	10.053	10.053	(1.090)	19746	10.0000	9.27973
75 2-Chloroethyl vinyl ether	63	10.039	10.039	(1.088)	54380	10.0000	8.40001
85 Ethyl methacrylate	69	10.625	10.625	(0.905)	224616	20.0000	17.7312
92 Tetrahydrothiophene	60	11.290	11.290	(0.962)	45591	10.0000	7.04301
105 cis-1,4-dichloro-2-butene	53	12.598	12.598	(0.905)	18376	10.0000	7.72150
109 t-1,4-Dichloro-2-butene	53	12.849	12.849	(0.923)	18497	10.0000	7.62899
123 1,2,3-Trimethylbenzene	105	13.943	13.943	(1.002)	806801	10.0000	8.72107

Data File: Q2982.D

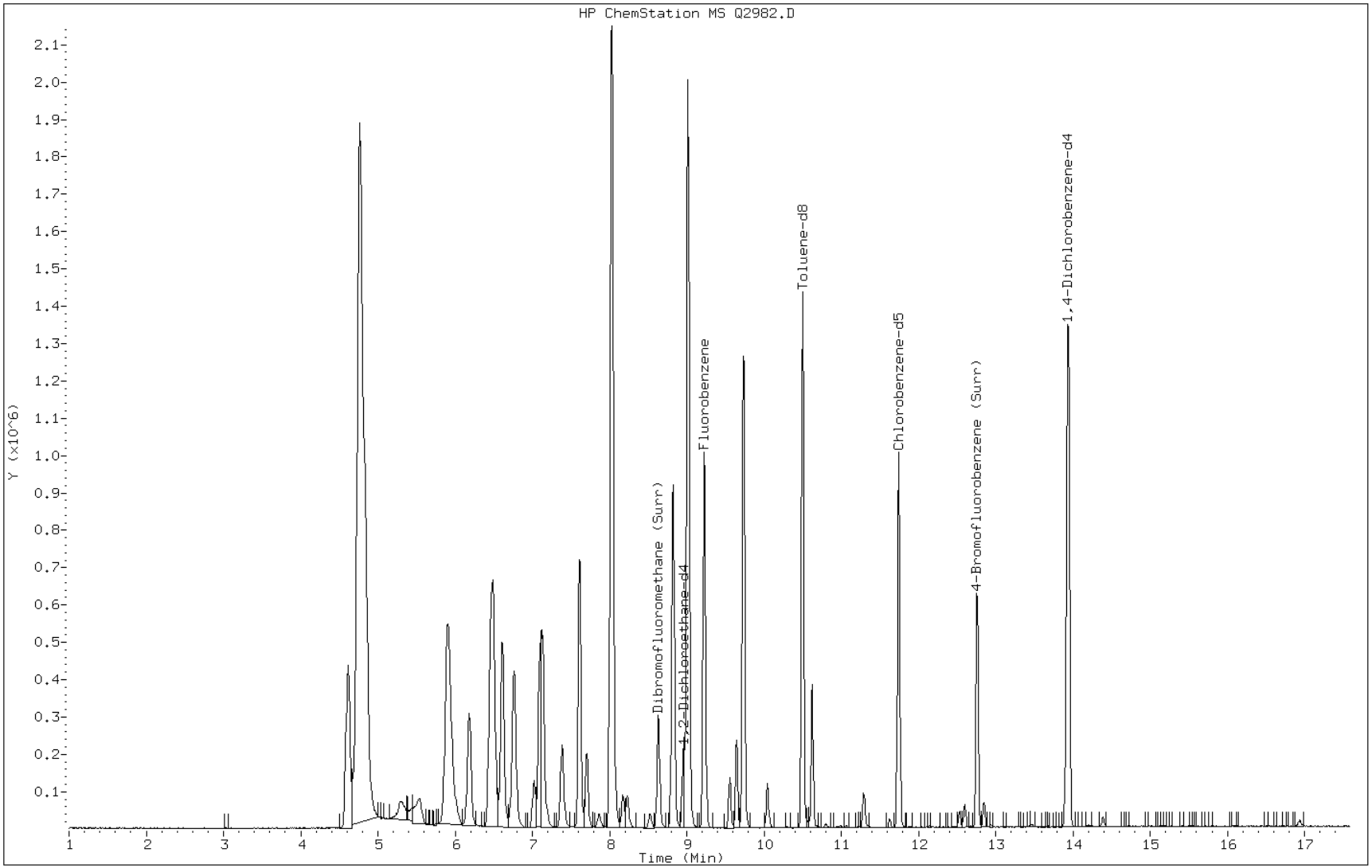
Date: 21-DEC-2011 08:32

Client ID: CCV

Instrument: Q.i

Sample Info: CCV,,S

Operator: MEIERG



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: CCV 280-101066/3 Calibration Date: 12/21/2011 08:54

Instrument ID: MSV_Q Calib Start Date: 12/16/2011 09:16

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 12/16/2011 11:28

Lab File ID: Q2983.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.3330	0.3554		21.3	20.0	6.7	35.0
Xylenes, Total	Ave	3.150	3.110		29.6	30.0	-1.3	35.0
Dichlorodifluoromethane	Ave	0.3284	0.3939		12.0	10.0	19.9	20.0
Chloromethane	Ave	0.3356	0.3418	0.1000	10.2	10.0	1.9	20.0
Vinyl chloride	Ave	0.3894	0.4038		10.4	10.0	3.7	20.0
Bromomethane	Ave	0.2668	0.2918		10.9	10.0	9.3	20.0
Chloroethane	Ave	0.2323	0.2750		11.8	10.0	18.4	20.0
Trichlorofluoromethane	Ave	0.5485	0.6131		11.2	10.0	11.8	20.0
Ethanol	Ave	0.0008	0.0009		544	500	8.8	50.0
Acrolein	Ave	0.0111	0.0123		111	100	11.4	50.0
Acetone	Ave	0.0198	0.0216		43.7	40.0	9.2	20.0
1,1-Dichloroethene	Ave	0.2981	0.3183		10.7	10.0	6.8	20.0
Iodomethane	Ave	0.4292	0.4466		10.4	10.0	4.0	35.0
Acetonitrile	Ave	0.0086	0.0092		106	100	6.3	50.0
2-Methyl-2-propanol	Ave	0.0060	0.0061		202	200	1.2	50.0
Methylene Chloride	Ave	0.2688	0.2890		10.8	10.0	7.5	20.0
Acrylonitrile	Ave	0.0248	0.0285		115	100	14.7	50.0
trans-1,2-Dichloroethene	Ave	0.3396	0.3628		10.7	10.0	6.8	20.0
1,1-Dichloroethane	Ave	0.5573	0.6139	0.1000	11.0	10.0	10.1	20.0
2-Chloro-1,3-butadiene	Ave	0.5686	0.6119		10.8	10.0	7.6	35.0
2-Butanone (MEK)	Ave	0.0282	0.0318		45.1	40.0	12.7	20.0
cis-1,2-Dichloroethene	Ave	0.3265	0.3480		10.7	10.0	6.6	20.0
Propionitrile	Ave	0.0092	0.0105		114	100	14.0	50.0
2,2-Dichloropropane	Ave	0.5353	0.5583		10.4	10.0	4.3	20.0
Methacrylonitrile	Ave	0.0475	0.0550		116	100	15.9	50.0
Chlorobromomethane	Ave	0.1008	0.1133		11.2	10.0	12.4	20.0
Chloroform	Ave	0.4954	0.5468		11.0	10.0	10.4	20.0
Isobutyl alcohol	Ave	0.0021	0.0023		223	200	11.6	50.0
1,1,1-Trichloroethane	Ave	0.5560	0.5892		10.6	10.0	6.0	20.0
1,1-Dichloropropene	Ave	0.5186	0.5560		10.7	10.0	7.2	20.0
Carbon tetrachloride	Ave	0.4687	0.5025		10.7	10.0	7.2	20.0
1,2-Dichloroethane	Ave	0.2349	0.2580		11.0	10.0	9.8	20.0
Benzene	Ave	1.274	1.390		10.9	10.0	9.0	20.0
Trichloroethene	Ave	0.3514	0.3622		10.3	10.0	3.1	20.0
1,2-Dichloropropane	Ave	0.2552	0.2755		10.8	10.0	8.0	20.0
1,4-Dioxane	Ave	0.0008	0.0008		508	500	1.6	50.0
Dibromomethane	Ave	0.0932	0.1012		10.9	10.0	8.6	20.0
Dichlorobromomethane	Ave	0.2812	0.3043		10.8	10.0	8.2	20.0
cis-1,3-Dichloropropene	Ave	0.3425	0.3586		10.5	10.0	4.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0642	0.0707		44.1	40.0	10.2	20.0
Toluene	Ave	1.428	1.473		10.3	10.0	3.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: CCV 280-101066/3 Calibration Date: 12/21/2011 08:54

Instrument ID: MSV_Q Calib Start Date: 12/16/2011 09:16

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 12/16/2011 11:28

Lab File ID: Q2983.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,3-Dichloropropene	Ave	0.2539	0.2605		10.3	10.0	2.6	20.0
1,1,2-Trichloroethane	Ave	0.1209	0.1336		11.0	10.0	10.5	20.0
2-Hexanone	Ave	0.2118	0.2094		39.6	40.0	-1.1	20.0
1,3-Dichloropropane	Ave	1.122	1.173		10.5	10.0	4.6	20.0
Tetrachloroethene	Ave	1.419	1.362		9.60	10.0	-4.0	20.0
Chlorodibromomethane	Ave	0.6919	0.7012		10.1	10.0	1.3	20.0
Ethylene Dibromide	Ave	0.5436	0.5556		10.2	10.0	2.2	20.0
1-Chlorohexane	Ave	2.697	2.625		9.99	10.3	-2.7	35.0
Chlorobenzene	Ave	4.012	4.030	0.3000	10.0	10.0	0.5	20.0
1,1,1,2-Tetrachloroethane	Ave	1.151	1.176		10.2	10.0	2.2	20.0
Ethylbenzene	Ave	2.619	2.570		9.81	10.0	-1.9	20.0
m-Xylene & p-Xylene	Ave	3.265	3.234		19.8	20.0	-1.0	20.0
o-Xylene	Ave	2.920	2.861		9.80	10.0	-2.0	20.0
Styrene	Ave	4.113	4.055		9.86	10.0	-1.4	20.0
Bromoform	Ave	0.3009	0.2824	0.1000	9.38	10.0	-6.2	20.0
Isopropylbenzene	Ave	5.925	5.755		9.71	10.0	-2.9	20.0
Cyclohexanone	Ave	0.0080	0.0078		391	400	-2.4	50.0
1,1,2,2-Tetrachloroethane	Ave	0.4398	0.4674	0.3000	10.6	10.0	6.3	20.0
1,2,3-Trichloropropane	Ave	0.1225	0.1236		10.1	10.0	0.9	20.0
N-Propylbenzene	Ave	1.852	1.762		9.51	10.0	-4.9	20.0
Bromobenzene	Ave	1.021	1.023		10.0	10.0	0.2	20.0
1,3,5-Trimethylbenzene	Ave	5.129	4.994		9.74	10.0	-2.6	20.0
2-Chlorotoluene	Ave	1.405	1.370		9.75	10.0	-2.5	20.0
4-Chlorotoluene	Ave	1.364	1.313		9.62	10.0	-3.8	20.0
tert-Butylbenzene	Ave	5.252	5.067		9.65	10.0	-3.5	20.0
1,2,4-Trimethylbenzene	Ave	4.968	4.868		9.80	10.0	-2.0	20.0
sec-Butylbenzene	Ave	1.494	1.416		9.48	10.0	-5.2	20.0
4-Isopropyltoluene	Ave	5.899	5.682		9.63	10.0	-3.7	20.0
1,3-Dichlorobenzene	Ave	2.200	2.173		9.88	10.0	-1.2	20.0
1,4-Dichlorobenzene	Ave	2.110	2.087		9.89	10.0	-1.1	20.0
n-Butylbenzene	Ave	5.627	5.522		9.81	10.0	-1.9	20.0
1,2-Dichlorobenzene	Ave	1.676	1.680		10.0	10.0	0.2	20.0
1,2-Dibromo-3-Chloropropane	Lin2	0.0562	0.0506		8.57	10.0	-14.3	20.0
1,2,4-Trichlorobenzene	Ave	1.026	0.9282		9.04	10.0	-9.6	20.0
Hexachlorobutadiene	Ave	0.8307	0.7567		9.11	10.0	-8.9	20.0
Naphthalene	Ave	1.225	1.088		8.88	10.0	-11.2	20.0
1,2,3-Trichlorobenzene	Ave	0.7608	0.6949		9.13	10.0	-8.7	20.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\Q2983.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 21-DEC-2011 08:54
Operator : MEIERG Inst ID: Q.i
Smp Info : CCV,,M
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\8260B-H2O.m
Meth Date : 22-Dec-2011 06:41 Q.i Quant Type: ISTD
Cal Date : 16-DEC-2011 13:18 Cal File: Q2761.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	60 Fluorobenzene	96	9.224	9.224	(1.000)	1159737	12.5000	
*	95 Chlorobenzene-d5	119	11.741	11.741	(1.000)	249897	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	13.922	13.922	(1.000)	324551	12.5000	
M	1 1,2-Dichloroethene (total)	96				659502	20.0000	21.3432
M	2 Xylene (total)	106				1865171	30.0000	29.6092
M	3 1,3-Dichloropropene (total)	75				574363	20.0000	20.7297
M	4 Trihalomethanes (total)	83				986222	40.0000	41.3752
	5 dichlorodifluoromethane	85	5.135	5.135	(0.557)	365477	10.0000	11.9935
	7 Chloromethane	50	5.363	5.363	(0.581)	317103	10.0000	10.1851
	8 Vinyl Chloride	62	5.528	5.528	(0.599)	374659	10.0000	10.3697
	10 Bromomethane	94	5.957	5.957	(0.646)	270709	10.0000	10.9347
	11 Chloroethane	64	6.043	6.043	(0.655)	255158	10.0000	11.8393
	13 Trichlorofluoromethane	101	6.307	6.307	(0.684)	568860	10.0000	11.1775
	14 Ethanol	45	6.322	6.322	(0.685)	39342	500.000	543.791(Q)
	19 Acrolein	56	6.665	6.665	(0.723)	114429	100.000	111.471
	20 Acetone	43	6.772	6.772	(0.734)	80328	40.0000	43.6808
	22 1,1-Dichloroethene	96	6.815	6.815	(0.739)	295328	10.0000	10.6783
	24 Iodomethane	142	7.015	7.015	(0.760)	414306	10.0000	10.4046
	25 Acetonitrile	41	7.029	7.029	(0.762)	85050	100.000	106.287
	30 Methylene Chloride	84	7.201	7.201	(0.781)	268164	10.0000	10.7512
	29 tert-Butyl alcohol	59	7.129	7.129	(0.773)	113273	200.000	202.340
	33 trans-1,2-Dichloroethene	96	7.444	7.444	(0.807)	336615	10.0000	10.6828

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
31 Acrylonitrile	53	7.358	7.358	(0.798)	264155	100.000	114.656
36 Isopropyl ether	87	7.723	7.723	(0.837)	1018568	50.0000	53.6281
37 1,1-Dichloroethane	63	7.794	7.794	(0.845)	569527	10.0000	11.0146
38 Chloroprene	53	7.866	7.866	(0.853)	567721	10.0000	10.7613
44 2,2-Dichloropropane	77	8.302	8.302	(0.900)	517950	10.0000	10.4294
43 cis-1,2-Dichloroethene	96	8.266	8.266	(0.896)	322887	10.0000	10.6605
41 2-Butanone	43	8.202	8.202	(0.889)	118086	40.0000	45.0952
45 Propionitrile	54	8.266	8.266	(0.896)	97553	100.000	113.998
47 Bromochloromethane	128	8.488	8.488	(0.920)	105094	10.0000	11.2430
46 Methacrylonitrile	41	8.409	8.409	(0.912)	510655	100.000	115.860
48 Chloroform	83	8.488	8.488	(0.920)	507277	10.0000	11.0367
51 1,1,1-Trichloroethane	97	8.738	8.738	(0.947)	546655	10.0000	10.5973
55 Carbon Tetrachloride	117	8.896	8.896	(0.964)	466209	10.0000	10.7199
54 1,1-Dichloropropene	75	8.846	8.846	(0.959)	515871	10.0000	10.7209
52 Isobutanol	41	8.688	8.688	(0.942)	43093	200.000	223.229(Q)
59 Benzene	78	9.046	9.046	(0.981)	1289302	10.0000	10.9039
58 1,2-Dichloroethane	62	9.017	9.017	(0.978)	239403	10.0000	10.9827
61 n-Butanol	56	9.224	9.224	(1.000)	61483	300.000	308.240(Q)
64 Trichloroethene	95	9.525	9.525	(1.033)	336078	10.0000	10.3080
69 1,2-Dichloropropane	63	9.725	9.725	(1.054)	255600	10.0000	10.7965
70 1,4-Dioxane	88	9.775	9.775	(1.060)	37934	500.000	507.972
71 Dibromomethane	93	9.839	9.839	(1.067)	93928	10.0000	10.8602
72 Bromodichloromethane	83	9.904	9.904	(1.074)	282310	10.0000	10.8219
79 cis-1,3-Dichloropropene	75	10.247	10.247	(1.111)	332664	10.0000	10.4702
80 4-Methyl-2-pentanone	43	10.297	10.297	(1.116)	262451	40.0000	44.0697
83 Toluene	91	10.554	10.554	(1.144)	1366458	10.0000	10.3149
86 trans-1,3-Dichloropropene	75	10.662	10.662	(1.156)	241699	10.0000	10.2595
87 1,1,2-Trichloroethane	97	10.848	10.848	(1.176)	123956	10.0000	11.0479
90 Tetrachloroethene	164	11.033	11.033	(0.940)	272373	10.0000	9.59929
89 1,3-Dichloropropane	76	11.005	11.005	(0.937)	234458	10.0000	10.4572
88 2-Hexanone	43	10.962	10.962	(0.934)	167459	40.0000	39.5560
91 Dibromochloromethane	129	11.234	11.234	(0.957)	140186	10.0000	10.1340
93 1,2-Dibromoethane	107	11.384	11.384	(0.970)	111076	10.0000	10.2210
94 1-Chlorohexane	91	11.620	11.620	(0.990)	538651	10.0000	9.99119
96 Chlorobenzene	112	11.770	11.770	(1.002)	805640	10.0000	10.0454
98 Ethylbenzene	106	11.806	11.806	(1.005)	513840	10.0000	9.81472
97 1,1,1,2-Tetrachloroethane	131	11.806	11.806	(1.005)	235034	10.0000	10.2164
99 m and p-Xylene	106	11.884	11.884	(1.012)	1293112	20.0000	19.8100
101 o-Xylene	106	12.263	12.263	(1.044)	572059	10.0000	9.79921
102 Styrene	104	12.263	12.263	(1.044)	810749	10.0000	9.86098
103 Bromoform	173	12.521	12.521	(1.066)	56449	10.0000	9.38258
104 isopropyl benzene	105	12.564	12.564	(0.902)	1494277	10.0000	9.71328
106 Cyclohexanone	55	12.735	12.735	(0.915)	80952	400.000	390.506
108 1,1,2,2-Tetrachloroethane	83	12.807	12.807	(0.920)	121347	10.0000	10.6265
111 Bromobenzene	156	12.964	12.964	(0.931)	265708	10.0000	10.0197(Q)
112 n-Propylbenzene	120	12.950	12.950	(0.930)	457440	10.0000	9.51387
110 1,2,3-Trichloropropane	110	12.900	12.900	(0.927)	32093	10.0000	10.0924
113 2-Chlorotoluene	126	13.107	13.107	(0.941)	355578	10.0000	9.74742
114 1,3,5-Trimethylbenzene	105	13.071	13.071	(0.939)	1296533	10.0000	9.73684
115 4-Chlorotoluene	126	13.200	13.200	(0.948)	340810	10.0000	9.62056
116 tert-Butylbenzene	119	13.436	13.436	(0.965)	1315546	10.0000	9.64750
117 1,2,4-Trimethylbenzene	105	13.472	13.472	(0.968)	1264012	10.0000	9.79844
118 sec-Butylbenzene	134	13.658	13.658	(0.981)	367762	10.0000	9.48317
119 4-Isopropyltoluene	119	13.765	13.765	(0.989)	1475154	10.0000	9.63101

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
120 1,3-Dichlorobenzene	146	13.865	13.865	(0.996)	564222	10.0000	9.87955
122 1,4-dichlorobenzene	146	13.951	13.951	(1.002)	541939	10.0000	9.89172
124 n-Butylbenzene	91	14.208	14.208	(1.021)	1433668	10.0000	9.81355
125 1,2-Dichlorobenzene	146	14.394	14.394	(1.034)	436275	10.0000	10.0240
126 1,2-Dibromo-3-chloropropane	157	15.324	15.324	(1.101)	13145	10.0000	8.57094
127 1,2,4-Trichlorobenzene	180	16.518	16.518	(1.186)	240989	10.0000	9.04214
128 Hexachlorobutadiene	225	16.704	16.704	(1.200)	196477	10.0000	9.10901
129 Naphthalene	128	16.990	16.990	(1.220)	282509	10.0000	8.87990
130 1,2,3-Trichlorobenzene	180	17.404	17.404	(1.250)	180411	10.0000	9.13253

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: Q2983.D

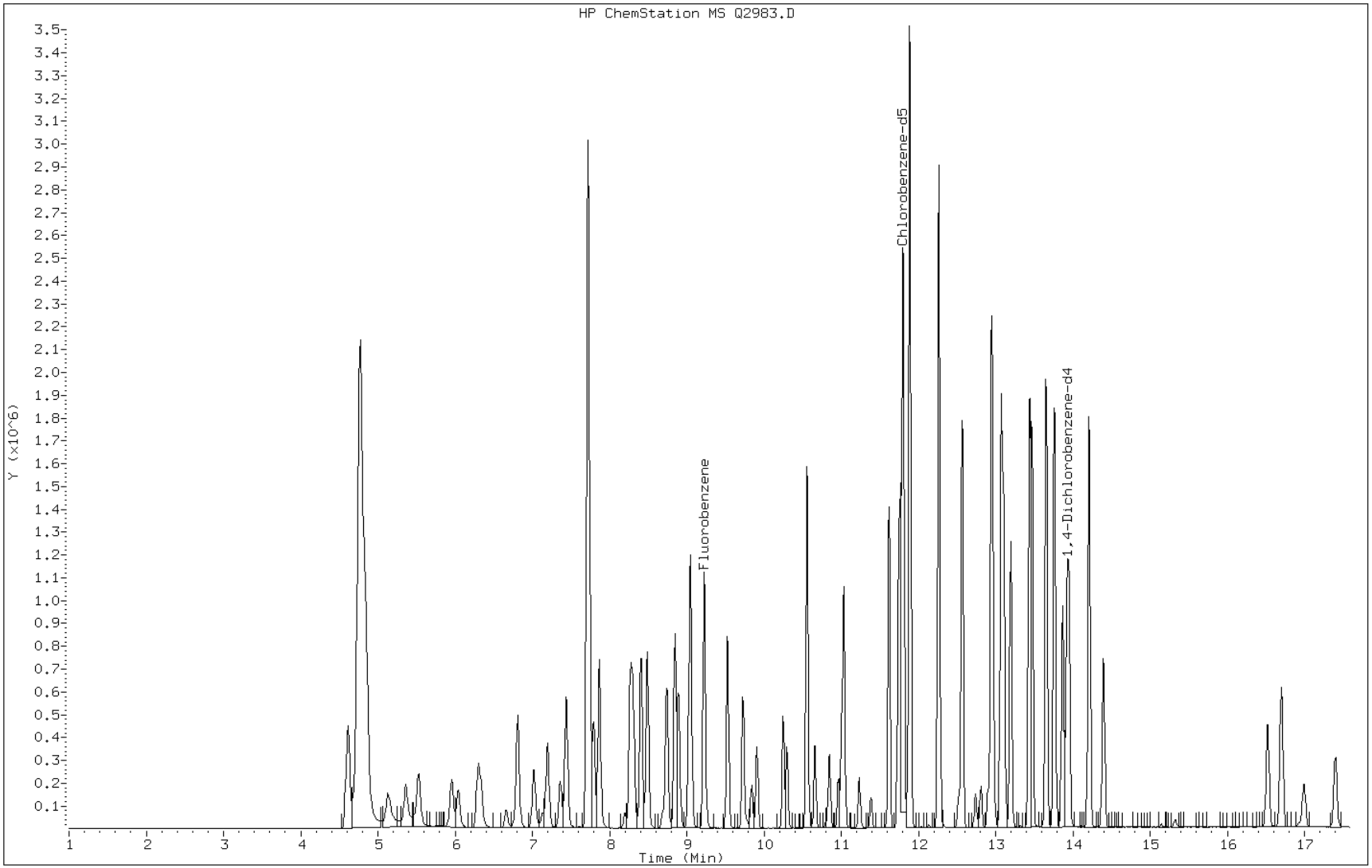
Date: 21-DEC-2011 08:54

Client ID: CCV

Instrument: Q.i

Sample Info: CCV,,M

Operator: MEIERG



TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2749.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 16-DEC-2011 09:05
Operator : MEIERG Inst ID: Q.i
Smp Info : BFB,,
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\bfb390.m
Meth Date : 15-Dec-2011 13:03 meierg Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC186

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
6.002	6.000	(0.000)	95	53624			0.00- 100.00	100.00
6.002	6.000	(0.000)	50	9324			15.00- 40.00	17.39
6.002	6.000	(0.000)	75	25848			30.00- 60.00	48.20
6.002	6.000	(0.000)	96	3889			5.00- 9.00	7.25
6.002	6.000	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
6.002	6.000	(0.000)	174	39848			50.00- 0.00	74.31
6.002	6.000	(0.000)	175	2644			5.00- 9.00	6.64
6.002	6.000	(0.000)	176	38464			95.00- 101.00	96.53
6.002	6.000	(0.000)	177	2577			5.00- 9.00	6.70

Data File: Q2749.D

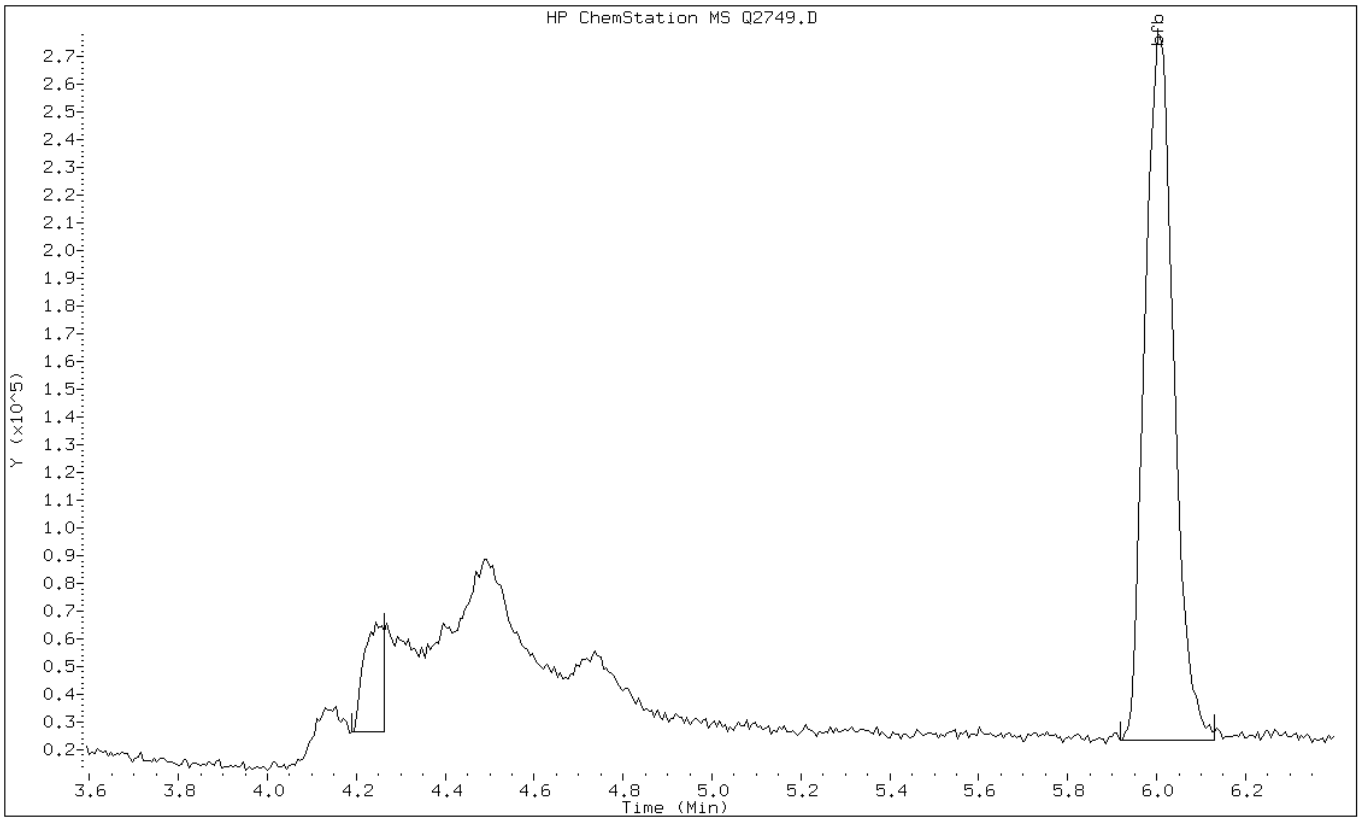
Date: 16-DEC-2011 09:05

Client ID: BFB

Instrument: Q.i

Sample Info: BFB,,

Operator: MEIERG



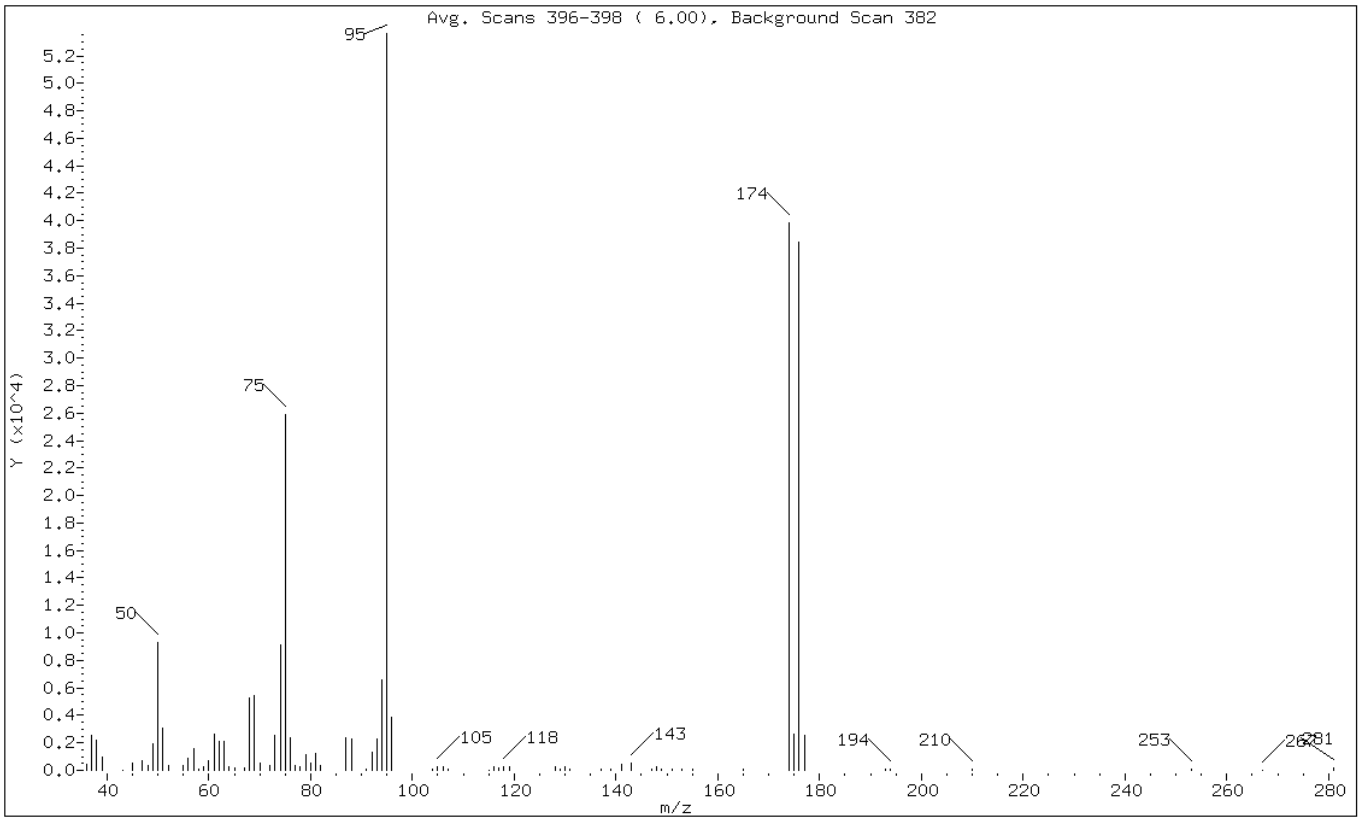
Data File: Q2749.D

Date: 16-DEC-2011 09:05

Client ID: BFB Instrument: Q.i

Sample Info: BFB,, Operator: MEIERG

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.39
75	30.00 - 60.00% of mass 95	48.20
96	5.00 - 9.00% of mass 95	7.25
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	74.31
175	5.00 - 9.00% of mass 174	4.93 (6.64)
176	95.00 - 101.00% of mass 174	71.73 (96.53)
177	5.00 - 9.00% of mass 176	4.81 (6.70)

Data File: Q2749.D

Date: 16-DEC-2011 09:05

Client ID: BFB Instrument: Q.i

Sample Info: BFB,, Operator: MEIERG

Data File: \\DenSvr03\Public\chem\MSV\Q.i\121611I.B\Q2749.D
Spectrum: Avg. Scans 396-398 (6.00), Background Scan 382
Location of Maximum: 95.00
Number of points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	401	64.00	249	93.00	2280	147.00	101
37.00	2564	65.00	175	94.00	6569	148.00	241
38.00	2220	67.00	144	95.00	53624	149.00	76
39.00	931	68.00	5266	96.00	3889	151.00	51
43.00	26	69.00	5448	104.00	130	153.00	57
45.00	508	70.00	501	105.00	287	155.00	53
47.00	740	72.00	319	106.00	285	165.00	130
48.00	362	73.00	2509	107.00	59	174.00	39848
49.00	1914	74.00	9140	115.00	2	175.00	2644
50.00	9324	75.00	25848	116.00	241	176.00	38464
51.00	3078	76.00	2335	117.00	202	177.00	2577
52.00	314	77.00	356	118.00	278	193.00	47
55.00	343	78.00	272	119.00	277	194.00	52
56.00	869	79.00	1143	128.00	229	210.00	67
57.00	1561	80.00	524	129.00	50	253.00	124
58.00	85	81.00	1230	130.00	236	267.00	7
59.00	233	82.00	331	131.00	127	281.00	171
60.00	663	87.00	2394	137.00	106		
61.00	2650	88.00	2277	139.00	52		
62.00	2100	91.00	124	141.00	461		
63.00	2065	92.00	1359	143.00	545		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\Q2980.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 21-DEC-2011 08:00
Operator : MEIERG Inst ID: Q.i
Smp Info : BFB,,
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\bfb390.m
Meth Date : 20-Dec-2011 08:05 target Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC232

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.974	6.000	(0.000)	95	44072			0.00- 100.00	100.00
5.974	6.000	(0.000)	50	7146			15.00- 40.00	16.21
5.974	6.000	(0.000)	75	19648			30.00- 60.00	44.58
5.974	6.000	(0.000)	96	3013			5.00- 9.00	6.84
5.974	6.000	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
5.974	6.000	(0.000)	174	30960			50.00- 0.00	70.25
5.974	6.000	(0.000)	175	2237			5.00- 9.00	7.23
5.974	6.000	(0.000)	176	29968			95.00- 101.00	96.80
5.974	6.000	(0.000)	177	2321			5.00- 9.00	7.74

Data File: Q2980.D

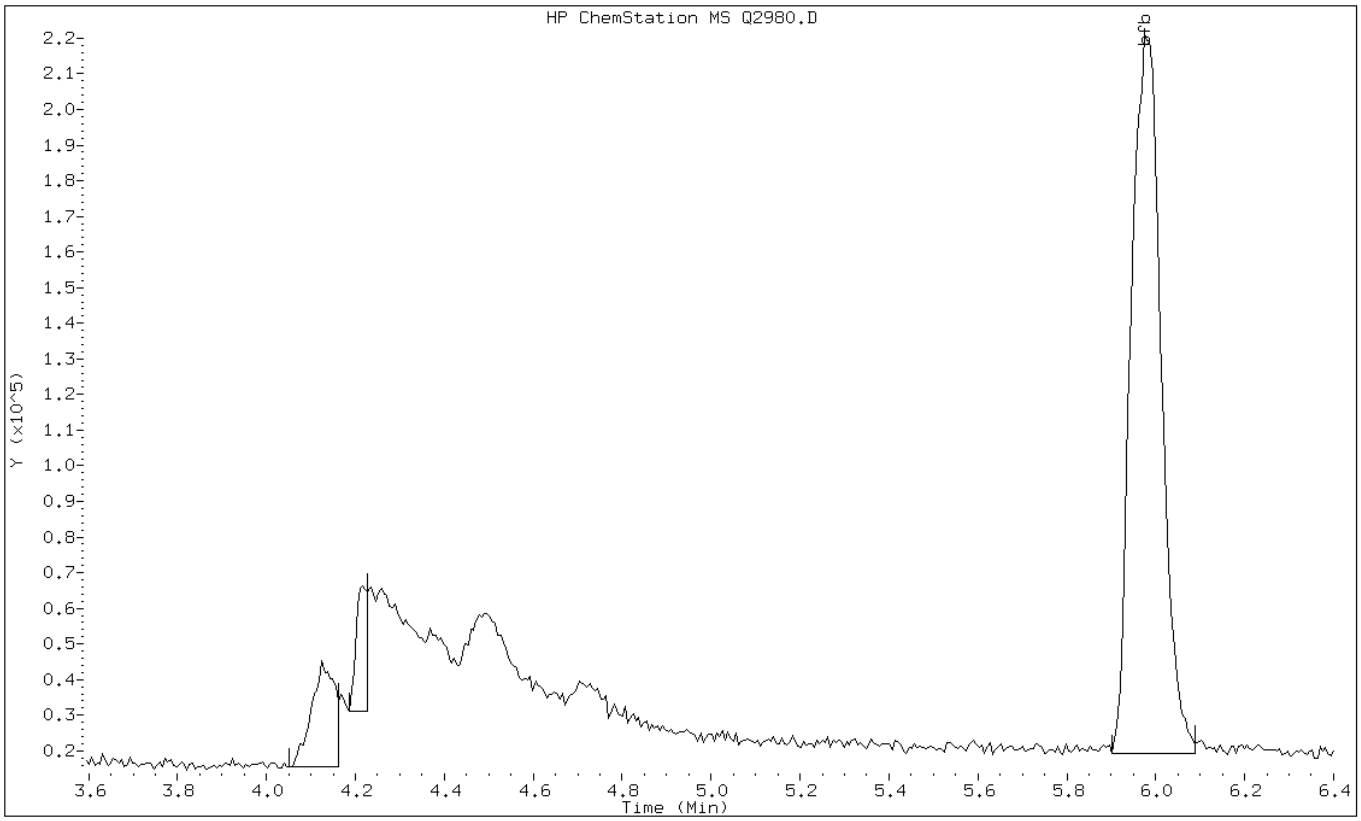
Date: 21-DEC-2011 08:00

Client ID: BFB

Instrument: Q.i

Sample Info: BFB,,

Operator: MEIERG



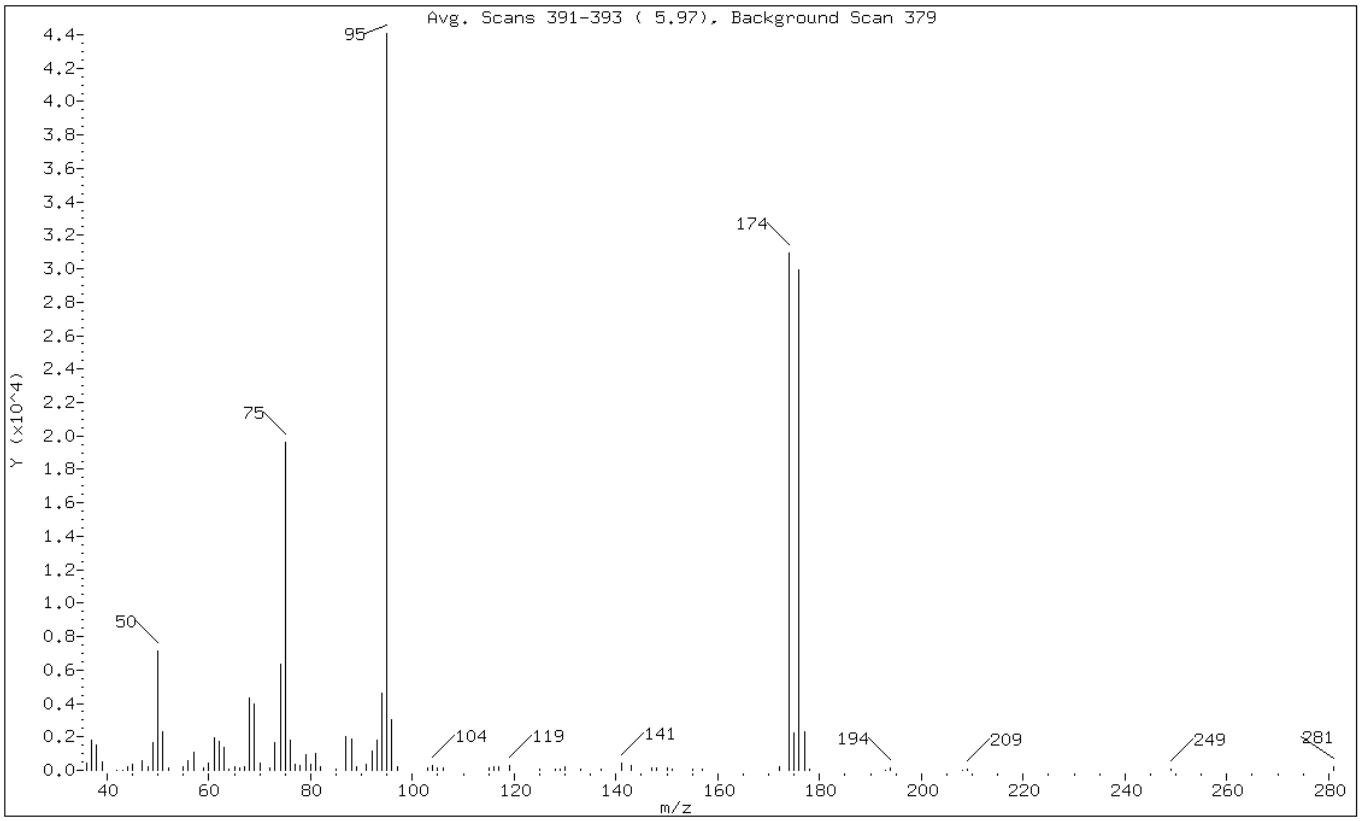
Data File: Q2980.D

Date: 21-DEC-2011 08:00

Client ID: BFB Instrument: Q.i

Sample Info: BFB,, Operator: MEIERG

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.21
75	30.00 - 60.00% of mass 95	44.58
96	5.00 - 9.00% of mass 95	6.84
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	70.25
175	5.00 - 9.00% of mass 174	5.08 (7.23)
176	95.00 - 101.00% of mass 174	68.00 (96.80)
177	5.00 - 9.00% of mass 176	5.27 (7.74)

Data File: Q2980.D

Date: 21-DEC-2011 08:00

Client ID: BFB Instrument: Q.i

Sample Info: BFB,, Operator: MEIERG

Data File: \\DenSvr03\Public\chem\MSV\Q.i\122111.B\Q2980.D
Spectrum: Avg. Scans 391-393 (5.97), Background Scan 379
Location of Maximum: 95.00
Number of points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	411	64.00	62	91.00	370	143.00	284
37.00	1831	65.00	207	92.00	1162	147.00	109
38.00	1514	66.00	115	93.00	1775	148.00	124
39.00	508	67.00	228	94.00	4650	150.00	116
42.00	29	68.00	4325	95.00	44072	151.00	58
43.00	21	69.00	3945	96.00	3013	155.00	55
44.00	207	70.00	430	97.00	240	157.00	53
45.00	356	72.00	154	103.00	125	172.00	249
47.00	556	73.00	1690	104.00	254	174.00	30960
48.00	230	74.00	6357	105.00	120	175.00	2237
49.00	1683	75.00	19648	106.00	146	176.00	29968
50.00	7146	76.00	1799	115.00	133	177.00	2321
51.00	2341	77.00	334	116.00	203	178.00	62
52.00	119	78.00	320	117.00	224	193.00	3
55.00	207	79.00	907	119.00	301	194.00	113
56.00	589	80.00	378	125.00	72	208.00	9
57.00	1053	81.00	1000	128.00	65	209.00	85
59.00	148	82.00	241	129.00	58	249.00	51
60.00	454	85.00	59	130.00	250	281.00	247
61.00	1927	87.00	2053	133.00	58		
62.00	1766	88.00	1892	137.00	73		
63.00	1389	89.00	191	141.00	419		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-101066/5

Matrix: Water | Lab File ID: Q2987.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/21/2011 10:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 101066 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	0.20	U	1.0	0.20	0.17
71-55-6	1,1,1-Trichloroethane	0.20	U	1.0	0.20	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-triflu oroethane	3.0	U	3.0	3.0	0.79
79-00-5	1,1,2-Trichloroethane	0.40	U	1.0	0.40	0.32
75-34-3	1,1-Dichloroethane	0.20	U	1.0	0.20	0.16
75-35-4	1,1-Dichloroethene	0.20	U	1.0	0.20	0.14
563-58-6	1,1-Dichloropropene	0.40	U	1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	0.40	U	1.0	0.40	0.18
96-18-4	1,2,3-Trichloropropane	0.80	U	3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	0.20	U	1.0	0.20	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	0.20	U	1.0	0.20	0.13
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20	0.13
78-87-5	1,2-Dichloropropane	0.20	U	1.0	0.20	0.13
108-67-8	1,3,5-Trimethylbenzene	0.80	U	1.0	0.80	0.14
541-73-1	1,3-Dichlorobenzene	0.20	U	1.0	0.20	0.16
142-28-9	1,3-Dichloropropane	0.20	U	1.0	0.20	0.15
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
123-91-1	1,4-Dioxane	80	U	220	80	71
544-10-5	1-Chlorohexane	0.20	U	1.0	0.20	0.17
594-20-7	2,2-Dichloropropane	0.40	U	1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	3.2	U	6.0	3.2	1.8
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40	0.17
591-78-6	2-Hexanone	3.2	U	5.0	3.2	1.4
106-43-4	4-Chlorotoluene	0.40	U	1.0	0.40	0.17
99-87-6	4-Isopropyltoluene	0.40	U	1.0	0.40	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	1.0
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.20	U	1.0	0.20	0.16
108-86-1	Bromobenzene	0.20	U	1.0	0.20	0.17
75-25-2	Bromoform	0.40	U	1.0	0.40	0.19
74-83-9	Bromomethane	0.40	U	2.0	0.40	0.21
75-15-0	Carbon disulfide	0.80	U	2.0	0.80	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-101066/5

Matrix: Water | Lab File ID: Q2987.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/21/2011 10:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 101066 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.20	U	1.0	0.20	0.17
74-97-5	Chlorobromomethane	0.20	U	1.0	0.20	0.10
124-48-1	Chlorodibromomethane	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.20	U	1.0	0.20	0.16
74-87-3	Chloromethane	1.6	U	2.0	1.6	0.30
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-01-5	cis-1,3-Dichloropropene	0.20	U	1.0	0.20	0.16
110-82-7	Cyclohexane	0.40	U	2.0	0.40	0.28
74-95-3	Dibromomethane	0.40	U	1.0	0.40	0.17
75-27-4	Dichlorobromomethane	0.20	U	1.0	0.20	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.20	U	1.0	0.20	0.16
106-93-4	Ethylene Dibromide	0.20	U	1.0	0.20	0.18
87-68-3	Hexachlorobutadiene	0.40	U	1.0	0.40	0.12
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
79-20-9	Methyl acetate	2.0	U	5.0	2.0	1.6
1634-04-4	Methyl tert-butyl ether	0.40	U	5.0	0.40	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.36
75-09-2	Methylene Chloride	0.775	J	5.0	0.40	0.32
179601-23-1	m-Xylene & p-Xylene	0.80	U	2.0	0.80	0.34
91-20-3	Naphthalene	0.80	U	1.0	0.80	0.22
104-51-8	n-Butylbenzene	0.40	U	1.0	0.40	0.14
103-65-1	N-Propylbenzene	0.20	U	1.0	0.20	0.16
95-47-6	o-Xylene	0.40	U	1.0	0.40	0.19
135-98-8	sec-Butylbenzene	0.40	U	1.0	0.40	0.17
100-42-5	Styrene	0.40	U	1.0	0.40	0.17
98-06-6	tert-Butylbenzene	0.40	U	1.0	0.40	0.16
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.20	U	1.0	0.20	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.20	U	1.0	0.20	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.80	U	1.5	0.80	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-101066/5

Matrix: Water Lab File ID: Q2987.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/21/2011 10:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 101066 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-120
460-00-4	4-Bromofluorobenzene (Surr)	98		75-120
1868-53-7	Dibromofluoromethane (Surr)	107		85-115
2037-26-5	Toluene-d8 (Surr)	97		85-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\Q2987.D
Lab Smp Id: MB Client Smp ID: MB
Inj Date : 21-DEC-2011 10:21
Operator : MEIERG Inst ID: Q.i
Smp Info : MB,,AF
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\8260B-H2O.m
Meth Date : 20-Dec-2011 09:39 meierg Quant Type: ISTD
Cal Date : 16-DEC-2011 13:18 Cal File: Q2761.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DOD.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	60 Fluorobenzene	96	9.227	9.226	(1.000)	1087509	12.5000	
*	95 Chlorobenzene-d5	119	11.743	11.743	(1.000)	229684	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	13.917	13.924	(1.000)	269762	12.5000	
$	50 Dibromofluoromethane (Surr)	111	8.633	8.632	(0.936)	259479	10.7214	10.7214
$	56 1,2-Dichloroethane-d4	65	8.955	8.961	(0.971)	209182	11.1691	11.1691
$	82 Toluene-d8	98	10.499	10.499	(0.894)	1186467	9.71934	9.71934
$	107 4-Bromofluorobenzene (Surr)	95	12.759	12.758	(0.917)	315017	9.82060	9.82060
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	2 Xylene (total)	106	Compound Not Detected.					
M	3 1,3-Dichloropropene (total)	75	Compound Not Detected.					
M	4 Trihalomethanes (total)	83	Compound Not Detected.					
	5 dichlorodifluoromethane	85	Compound Not Detected.					
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	7 Chloromethane	50	Compound Not Detected.					
	8 Vinyl Chloride	62	Compound Not Detected.					
	9 Ethylene Oxide	43	Compound Not Detected.					
	10 Bromomethane	94	Compound Not Detected.					
	11 Chloroethane	64	Compound Not Detected.					
	12 Dichlorofluoromethane	67	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	14 Ethanol	45	Compound Not Detected.					
	15 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
16 Ethyl Ether	59	Compound Not Detected.					
17 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.					
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 1,1-Dichloroethene	96	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
27 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	7.189	7.196	(0.779)	18120	0.77472	0.774718(a)
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
42 sec-Butyl Alcohol	45	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Propionitrile	54	Compound Not Detected.					
46 Methacrylonitrile	41	Compound Not Detected.					
47 Bromochloromethane	128	Compound Not Detected.					
48 Chloroform	83	Compound Not Detected.					
49 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
53 Cyclohexane	56	Compound Not Detected.					
54 1,1-Dichloropropene	75	Compound Not Detected.					
55 Carbon Tetrachloride	117	Compound Not Detected.					
57 TAME	73	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
59 Benzene	78	Compound Not Detected.					
61 n-Butanol	56	Compound Not Detected.					
64 Trichloroethene	95	Compound Not Detected.					
65 2-Pentanone	43	Compound Not Detected.					
66 Methyl Methacrylate	100	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
69 1,2-Dichloropropane	63	Compound Not Detected.					
70 1,4-Dioxane	88	Compound Not Detected.					
71 Dibromomethane	93	Compound Not Detected.					
72 Bromodichloromethane	83	Compound Not Detected.					
74 2-nitropropane	41	Compound Not Detected.					
75 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
79 cis-1,3-Dichloropropene	75	Compound Not Detected.					
80 4-Methyl-2-pentanone	43	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
83 Toluene	91	Compound Not Detected.					
85 Ethyl methacrylate	69	Compound Not Detected.					
86 trans-1,3-Dichloropropene	75	Compound Not Detected.					
87 1,1,2-Trichloroethane	97	Compound Not Detected.					
88 2-Hexanone	43	Compound Not Detected.					
89 1,3-Dichloropropane	76	Compound Not Detected.					
90 Tetrachloroethene	164	Compound Not Detected.					
91 Dibromochloromethane	129	Compound Not Detected.					
92 Tetrahydrothiophene	60	Compound Not Detected.					
93 1,2-Dibromoethane	107	Compound Not Detected.					
94 1-Chlorohexane	91	Compound Not Detected.					
96 Chlorobenzene	112	Compound Not Detected.					
97 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
98 Ethylbenzene	106	Compound Not Detected.					
99 m and p-Xylene	106	Compound Not Detected.					
101 o-Xylene	106	Compound Not Detected.					
102 Styrene	104	Compound Not Detected.					
103 Bromoform	173	Compound Not Detected.					
104 isopropyl benzene	105	Compound Not Detected.					
105 cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
106 Cyclohexanone	55	Compound Not Detected.					
108 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
109 t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
110 1,2,3-Trichloropropane	110	Compound Not Detected.					
111 Bromobenzene	156	Compound Not Detected.					
112 n-Propylbenzene	120	Compound Not Detected.					
113 2-Chlorotoluene	126	Compound Not Detected.					
114 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
115 4-Chlorotoluene	126	Compound Not Detected.					
116 tert-Butylbenzene	119	Compound Not Detected.					
117 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
118 sec-Butylbenzene	134	Compound Not Detected.					
119 4-Isopropyltoluene	119	Compound Not Detected.					
120 1,3-Dichlorobenzene	146	Compound Not Detected.					
122 1,4-dichlorobenzene	146	Compound Not Detected.					
123 1,2,3-Trimethylbenzene	105	Compound Not Detected.					
124 n-Butylbenzene	91	Compound Not Detected.					
125 1,2-Dichlorobenzene	146	Compound Not Detected.					
126 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
127 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
128 Hexachlorobutadiene	225	Compound Not Detected.					
129 Naphthalene	128	Compound Not Detected.					
130 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: Q2987.D

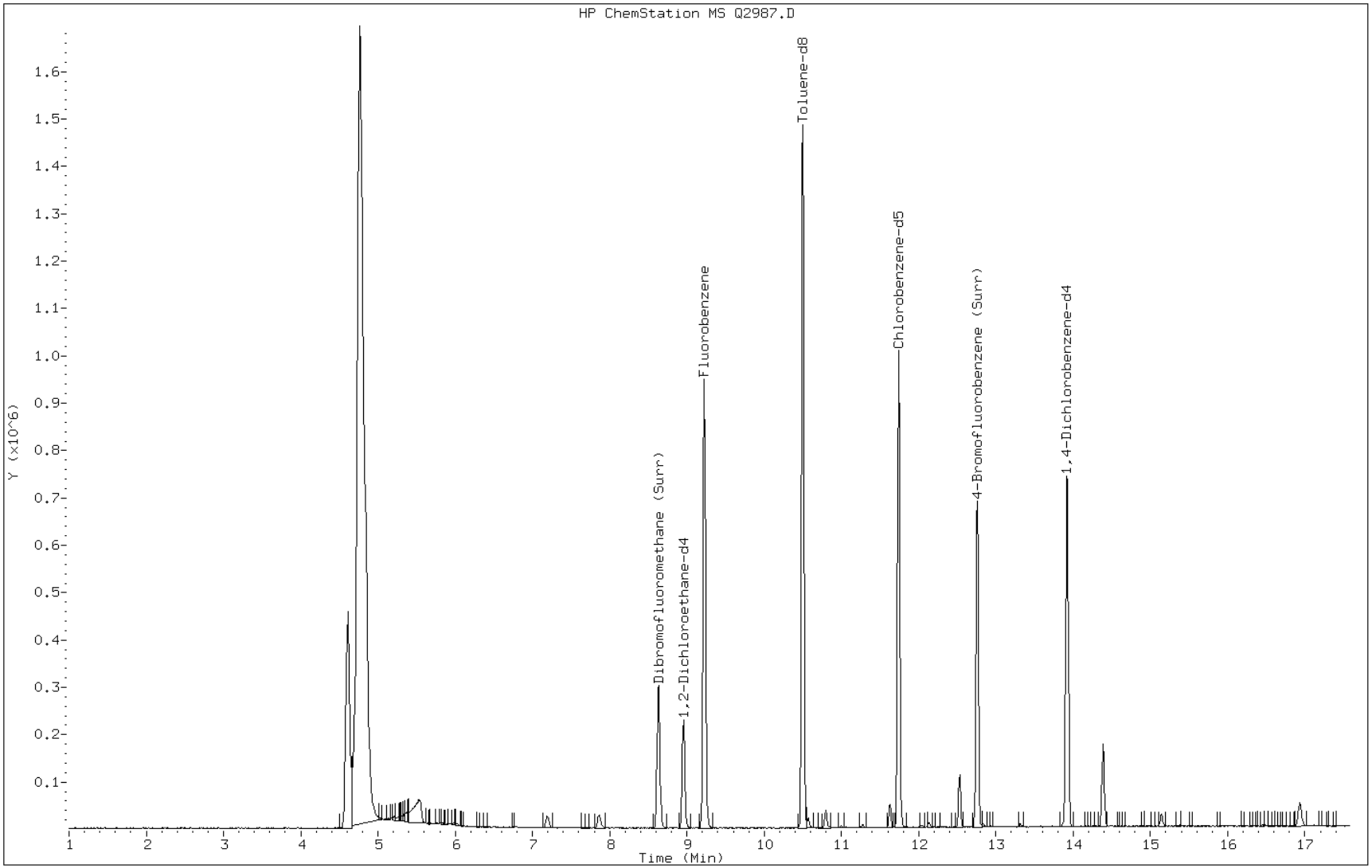
Date: 21-DEC-2011 10:21

Client ID: MB

Instrument: Q.i

Sample Info: MB,,AF

Operator: MEIERG



Data File: Q2987.D

Date: 21-DEC-2011 10:21

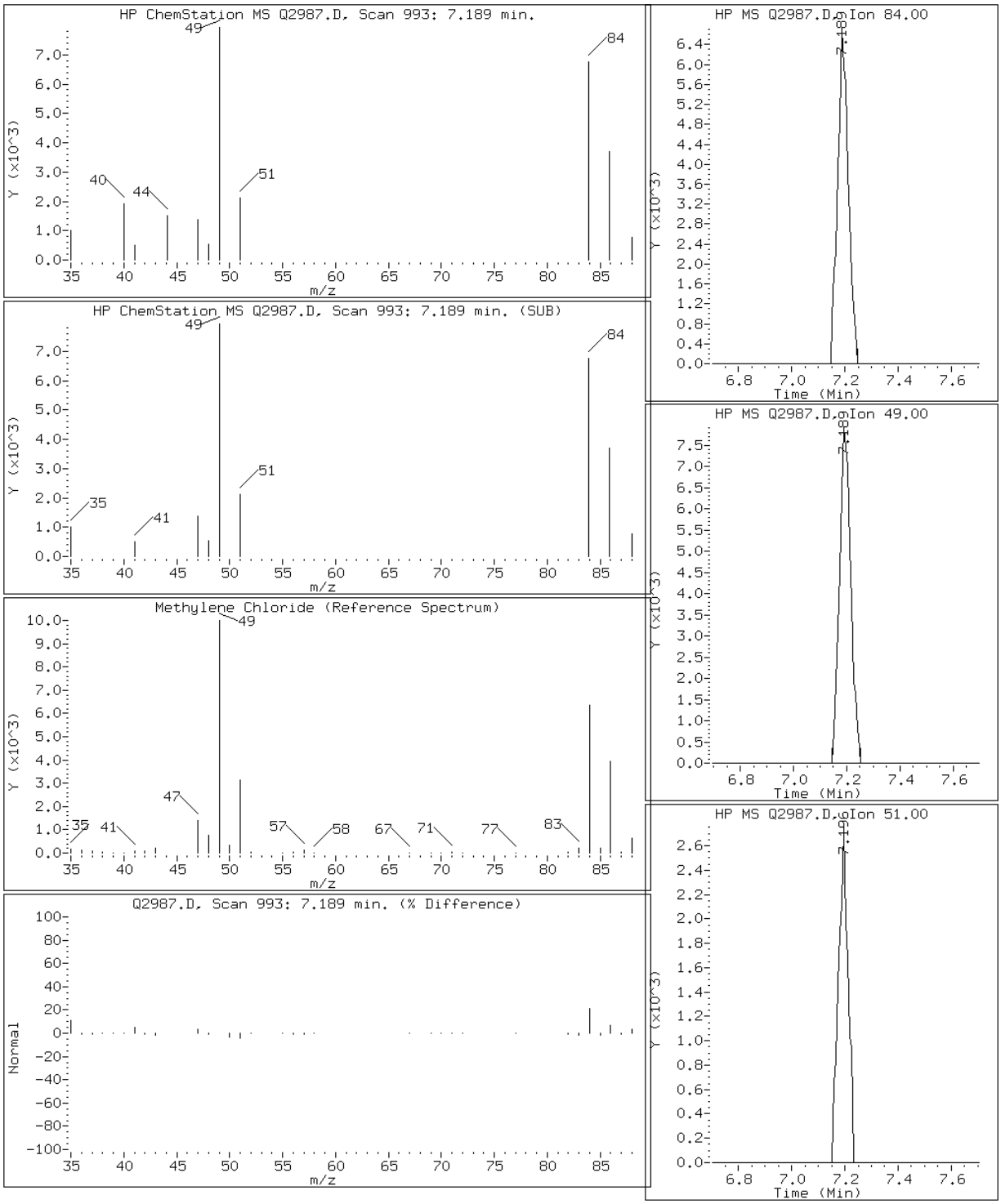
Client ID: MB

Instrument: Q.i

Sample Info: MB,,AF

Operator: MEIERG

30 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-101066/4

Matrix: Water | Lab File ID: Q2985.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/21/2011 09:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 101066 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	5.17		1.0	0.20	0.17
71-55-6	1,1,1-Trichloroethane	5.53		1.0	0.20	0.16
79-34-5	1,1,2,2-Tetrachloroethane	5.81		1.0	0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-triflu oroethane	3.0	U	3.0	3.0	0.79
79-00-5	1,1,2-Trichloroethane	5.92		1.0	0.40	0.32
75-34-3	1,1-Dichloroethane	5.81		1.0	0.20	0.16
75-35-4	1,1-Dichloroethene	6.34		1.0	0.20	0.14
563-58-6	1,1-Dichloropropene	5.53		1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	4.41		1.0	0.40	0.18
96-18-4	1,2,3-Trichloropropane	5.41		3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	4.50		1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	4.92		1.0	0.20	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	4.45	J	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	5.31		1.0	0.20	0.13
107-06-2	1,2-Dichloroethane	6.02		1.0	0.20	0.13
78-87-5	1,2-Dichloropropane	5.66		1.0	0.20	0.13
108-67-8	1,3,5-Trimethylbenzene	4.97		1.0	0.80	0.14
541-73-1	1,3-Dichlorobenzene	5.17		1.0	0.20	0.16
142-28-9	1,3-Dichloropropane	5.47		1.0	0.20	0.15
106-46-7	1,4-Dichlorobenzene	5.29		1.0	0.40	0.16
123-91-1	1,4-Dioxane	226		220	80	71
544-10-5	1-Chlorohexane	4.77		1.0	0.20	0.17
594-20-7	2,2-Dichloropropane	5.50		1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	28.5		6.0	3.2	1.8
95-49-8	2-Chlorotoluene	5.02		1.0	0.40	0.17
591-78-6	2-Hexanone	20.2		5.0	3.2	1.4
106-43-4	4-Chlorotoluene	5.05		1.0	0.40	0.17
99-87-6	4-Isopropyltoluene	4.84		1.0	0.40	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	22.5		5.0	3.2	1.0
67-64-1	Acetone	24.4		10	6.4	1.9
71-43-2	Benzene	5.88		1.0	0.20	0.16
108-86-1	Bromobenzene	5.35		1.0	0.20	0.17
75-25-2	Bromoform	4.82		1.0	0.40	0.19
74-83-9	Bromomethane	4.27		2.0	0.40	0.21
75-15-0	Carbon disulfide	3.23		2.0	0.80	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-101066/4

Matrix: Water | Lab File ID: Q2985.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/21/2011 09:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 101066 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	5.66		2.0	0.40	0.19
108-90-7	Chlorobenzene	5.21		1.0	0.20	0.17
74-97-5	Chlorobromomethane	5.83		1.0	0.20	0.10
124-48-1	Chlorodibromomethane	5.36		1.0	0.40	0.17
75-00-3	Chloroethane	5.11		2.0	1.6	0.41
67-66-3	Chloroform	5.85		1.0	0.20	0.16
74-87-3	Chloromethane	4.31		2.0	1.6	0.30
156-59-2	cis-1,2-Dichloroethene	5.66		1.0	0.20	0.15
10061-01-5	cis-1,3-Dichloropropene	5.44		1.0	0.20	0.16
110-82-7	Cyclohexane	0.40	U	2.0	0.40	0.28
74-95-3	Dibromomethane	5.81		1.0	0.40	0.17
75-27-4	Dichlorobromomethane	5.67		1.0	0.20	0.17
75-71-8	Dichlorodifluoromethane	4.68		2.0	0.80	0.31
100-41-4	Ethylbenzene	5.00		1.0	0.20	0.16
106-93-4	Ethylene Dibromide	5.28		1.0	0.20	0.18
87-68-3	Hexachlorobutadiene	4.64		1.0	0.40	0.12
98-82-8	Isopropylbenzene	5.54		1.0	0.40	0.19
79-20-9	Methyl acetate	2.0	U	5.0	2.0	1.6
1634-04-4	Methyl tert-butyl ether	5.16		5.0	0.40	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.36
75-09-2	Methylene Chloride	6.40		5.0	0.40	0.32
179601-23-1	m-Xylene & p-Xylene	9.80		2.0	0.80	0.34
91-20-3	Naphthalene	4.66		1.0	0.80	0.22
104-51-8	n-Butylbenzene	4.99		1.0	0.40	0.14
103-65-1	N-Propylbenzene	4.99		1.0	0.20	0.16
95-47-6	o-Xylene	4.88		1.0	0.40	0.19
135-98-8	sec-Butylbenzene	4.79		1.0	0.40	0.17
100-42-5	Styrene	4.71		1.0	0.40	0.17
98-06-6	tert-Butylbenzene	4.92		1.0	0.40	0.16
127-18-4	Tetrachloroethene	4.95		1.0	0.40	0.20
108-88-3	Toluene	5.52		1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	5.93		1.0	0.20	0.15
10061-02-6	trans-1,3-Dichloropropene	5.39		1.0	0.40	0.19
79-01-6	Trichloroethene	5.57		1.0	0.20	0.16
75-69-4	Trichlorofluoromethane	4.89		2.0	0.80	0.29
75-01-4	Vinyl chloride	4.24		1.5	0.80	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-101066/4

Matrix: Water Lab File ID: Q2985.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/21/2011 09:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 101066 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-120
460-00-4	4-Bromofluorobenzene (Surr)	93		75-120
1868-53-7	Dibromofluoromethane (Surr)	102		85-115
2037-26-5	Toluene-d8 (Surr)	90		85-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\Q2985.D
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 21-DEC-2011 09:38
Operator : MEIERG Inst ID: Q.i
Smp Info : LCS,,
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\8260B-H2O.m
Meth Date : 20-Dec-2011 09:39 meierg Quant Type: ISTD
Cal Date : 16-DEC-2011 13:18 Cal File: Q2761.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DOD.sub
Target Version: 4.14
Processing Host: DENPC232

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 60 Fluorobenzene	96	9.224	9.226	(1.000)	1158148	12.5000	
* 95 Chlorobenzene-d5	119	11.740	11.743	(1.000)	250746	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.921	13.924	(1.000)	315046	12.5000	
$ 50 Dibromofluoromethane (Surr)	111	8.630	8.632	(0.936)	261936	10.1628	10.1628
$ 56 1,2-Dichloroethane-d4	65	8.959	8.961	(0.971)	212284	10.6434	10.6434
$ 82 Toluene-d8	98	10.496	10.499	(0.894)	1202648	9.02436	9.02436
$ 107 4-Bromofluorobenzene (Surr)	95	12.756	12.758	(0.916)	349189	9.32119	9.32119
M 1 1,2-Dichloroethene (total)	96				357699	11.5869	11.5869
M 2 Xylene (total)	106				927593	14.6780	14.6780
M 3 1,3-Dichloropropene (total)	75				299325	10.8269	10.8269
M 4 Trihalomethanes (total)	83				519954	21.7098	21.7098
5 dichlorodifluoromethane	85	5.134	5.144	(0.557)	142500	4.68272	4.68272
6 1,2-Dichlorotetrafluoroethane	85	5.134	5.300	(0.557)	132482	9.64532	9.64532
7 Chloromethane	50	5.355	5.351	(0.581)	133907	4.30690	4.30690
8 Vinyl Chloride	62	5.520	5.516	(0.598)	152814	4.23536	4.23536
9 Ethylene Oxide	43	5.877	5.908	(0.637)	1327	152.441	152.441
10 Bromomethane	94	5.949	5.952	(0.645)	105597	4.27120	4.27120
11 Chloroethane	64	6.035	6.037	(0.654)	109973	5.10973	5.10972
12 Dichlorofluoromethane	67	Compound Not Detected.					
13 Trichlorofluoromethane	101	6.299	6.302	(0.683)	248659	4.89258	4.89258
14 Ethanol	45	Compound Not Detected.					
15 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
16 Ethyl Ether	59	Compound Not Detected.					
17 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.					
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	6.771	6.774	(0.734)	44844	24.4188	24.4188
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 1,1-Dichloroethene	96	6.814	6.810	(0.739)	175235	6.34472	6.34472
23 2-propanol	45	Compound Not Detected.					
24 Iodomethane	142	7.014	7.024	(0.760)	228797	5.75373	5.75373
25 Acetonitrile	41	7.143	7.039	(0.774)	16990	21.2615	21.2615(Q)
26 Methyl Acetate	43	Compound Not Detected.					
27 Carbon Disulfide	76	7.136	7.131	(0.774)	430209	3.22630	3.22630
28 Allyl Chloride	41	7.143	7.095	(0.774)	16990	0.36933	0.369332(aQ)
29 tert-Butyl alcohol	59	7.129	7.139	(0.773)	59444	106.331	106.330
30 Methylene Chloride	84	7.200	7.196	(0.781)	159509	6.40382	6.40382
31 Acrylonitrile	53	7.615	7.367	(0.826)	8729	3.79400	3.79400(aQ)
32 Methyl t-butyl ether	73	7.386	7.388	(0.801)	193349	5.16276	5.16276
33 trans-1,2-Dichloroethene	96	7.443	7.439	(0.807)	186510	5.92717	5.92717
34 Hexane	57	7.615	7.610	(0.826)	309514	5.65484	5.65484
35 Vinyl acetate	43	7.708	7.710	(0.836)	95349	4.85872	4.85872(Q)
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	7.794	7.789	(0.845)	299976	5.80950	5.80950
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
40 Ethyl Acetate	43	8.201	8.175	(0.889)	74566	9.78178	9.78178(Q)
41 2-Butanone	43	8.201	8.197	(0.889)	74566	28.5146	28.5146
42 sec-Butyl Alcohol	45	8.230	8.232	(0.892)	63445	157.702	157.702
43 cis-1,2-Dichloroethene	96	8.265	8.268	(0.896)	171189	5.65975	5.65975
44 2,2-Dichloropropane	77	8.301	8.304	(0.900)	272791	5.50044	5.50044
45 Propionitrile	54	Compound Not Detected.					
46 Methacrylonitrile	41	Compound Not Detected.					
47 Bromochloromethane	128	8.487	8.483	(0.920)	54396	5.82727	5.82727
48 Chloroform	83	8.487	8.490	(0.920)	268639	5.85273	5.85273
49 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	8.737	8.740	(0.947)	284672	5.52616	5.52616
52 Isobutanol	41	Compound Not Detected.					
53 Cyclohexane	56	Compound Not Detected.					
54 1,1-Dichloropropene	75	8.845	8.847	(0.959)	265899	5.53355	5.53355
55 Carbon Tetrachloride	117	8.895	8.898	(0.964)	245612	5.65531	5.65531
57 TAME	73	Compound Not Detected.					
58 1,2-Dichloroethane	62	9.023	9.019	(0.978)	131067	6.02098	6.02098
59 Benzene	78	9.052	9.048	(0.981)	694325	5.88011	5.88011
61 n-Butanol	56	9.224	9.226	(1.000)	9217	46.2721	46.2721(aQ)
64 Trichloroethene	95	9.531	9.527	(1.033)	181362	5.57029	5.57029
65 2-Pentanone	43	9.552	9.562	(1.036)	46053	9.79055	9.79055
66 Methyl Methacrylate	100	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
69 1,2-Dichloropropane	63	9.724	9.727	(1.054)	133784	5.65875	5.65875
70 1,4-Dioxane	88	9.781	9.777	(1.060)	16839	225.800	225.800
71 Dibromomethane	93	9.839	9.841	(1.067)	50185	5.81050	5.81050
72 Bromodichloromethane	83	9.910	9.906	(1.074)	147800	5.67344	5.67344
74 2-nitropropane	41	10.296	10.055	(1.116)	34053	15.7988	15.7988
75 2-Chloroethyl vinyl ether	63	10.039	10.041	(1.088)	24693	3.76553	3.76553
79 cis-1,3-Dichloropropene	75	10.246	10.249	(1.111)	172552	5.43831	5.43831
80 4-Methyl-2-pentanone	43	10.296	10.299	(1.116)	133849	22.5062	22.5062

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
83 Toluene	91	10.561	10.556	(1.145)	729942	5.51763	5.51763
85 Ethyl methacrylate	69	Compound Not Detected.					
86 trans-1,3-Dichloropropene	75	10.661	10.656	(1.156)	126773	5.38859	5.38858
87 1,1,2-Trichloroethane	97	10.847	10.850	(1.176)	66362	5.92279	5.92279
88 2-Hexanone	43	10.961	10.964	(0.934)	85955	20.2349	20.2349
89 1,3-Dichloropropane	76	11.004	11.007	(0.937)	123045	5.46940	5.46940
90 Tetrachloroethene	164	11.040	11.035	(0.940)	140895	4.94878	4.94878
91 Dibromochloromethane	129	11.233	11.236	(0.957)	74394	5.35970	5.35970
92 Tetrahydrothiophene	60	Compound Not Detected.					
93 1,2-Dibromoethane	107	11.383	11.386	(0.970)	57523	5.27524	5.27524
94 1-Chlorohexane	91	11.619	11.622	(0.990)	257791	4.76546	4.76546
96 Chlorobenzene	112	11.769	11.772	(1.002)	418864	5.20506	5.20506
97 1,1,1,2-Tetrachloroethane	131	11.805	11.808	(1.005)	119340	5.16987	5.16987
98 Ethylbenzene	106	11.805	11.800	(1.005)	262508	4.99712	4.99712
99 m and p-Xylene	106	11.891	11.886	(1.013)	641707	9.79741	9.79741
101 o-Xylene	106	12.262	12.265	(1.044)	285886	4.88056	4.88056
102 Styrene	104	12.262	12.265	(1.044)	388734	4.71209	4.71209
103 Bromoform	173	12.520	12.523	(1.066)	29121	4.82391	4.82391
104 isopropyl benzene	105	12.570	12.566	(0.903)	826682	5.53582	5.53582
105 cis-1,4-dichloro-2-butene	53	12.570	12.601	(0.903)	9008	3.19596	3.19596(Q)
106 Cyclohexanone	55	12.741	12.744	(0.915)	25493	126.686	126.686
108 1,1,2,2-Tetrachloroethane	83	12.806	12.809	(0.920)	64446	5.81387	5.81387
109 t-1,4-Dichloro-2-butene	53	12.849	12.851	(0.923)	63289	22.0402	22.0402
110 1,2,3-Trichloropropane	110	12.906	12.902	(0.927)	16700	5.41014	5.41014
111 Bromobenzene	156	12.970	12.966	(0.932)	137610	5.34576	5.34576
112 n-Propylbenzene	120	12.949	12.945	(0.930)	232928	4.99061	4.99061
113 2-Chlorotoluene	126	13.106	13.109	(0.941)	177740	5.01937	5.01937
114 1,3,5-Trimethylbenzene	105	13.070	13.073	(0.939)	642793	4.97295	4.97295
115 4-Chlorotoluene	126	13.199	13.202	(0.948)	173654	5.04989	5.04989
116 tert-Butylbenzene	119	13.435	13.438	(0.965)	650994	4.91807	4.91807
117 1,2,4-Trimethylbenzene	105	13.471	13.474	(0.968)	616236	4.92109	4.92109
118 sec-Butylbenzene	134	13.657	13.652	(0.981)	180351	4.79087	4.79087
119 4-Isopropyltoluene	119	13.764	13.760	(0.989)	720029	4.84277	4.84277
120 1,3-Dichlorobenzene	146	13.871	13.867	(0.996)	286575	5.16933	5.16933
122 1,4-dichlorobenzene	146	13.950	13.953	(1.002)	281239	5.28818	5.28818
123 1,2,3-Trimethylbenzene	105	Compound Not Detected.					
124 n-Butylbenzene	91	14.214	14.210	(1.021)	707053	4.98584	4.98584
125 1,2-Dichlorobenzene	146	14.400	14.403	(1.034)	224463	5.31291	5.31291
126 1,2-Dibromo-3-chloropropane	157	15.323	15.326	(1.101)	5986	4.45391	4.45391
127 1,2,4-Trichlorobenzene	180	16.524	16.520	(1.187)	116387	4.49870	4.49870
128 Hexachlorobutadiene	225	16.703	16.705	(1.200)	97181	4.64141	4.64141
129 Naphthalene	128	16.996	16.991	(1.221)	143910	4.65989	4.65989
130 1,2,3-Trichlorobenzene	180	17.403	17.399	(1.250)	84582	4.41078	4.41078

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: Q2985.D

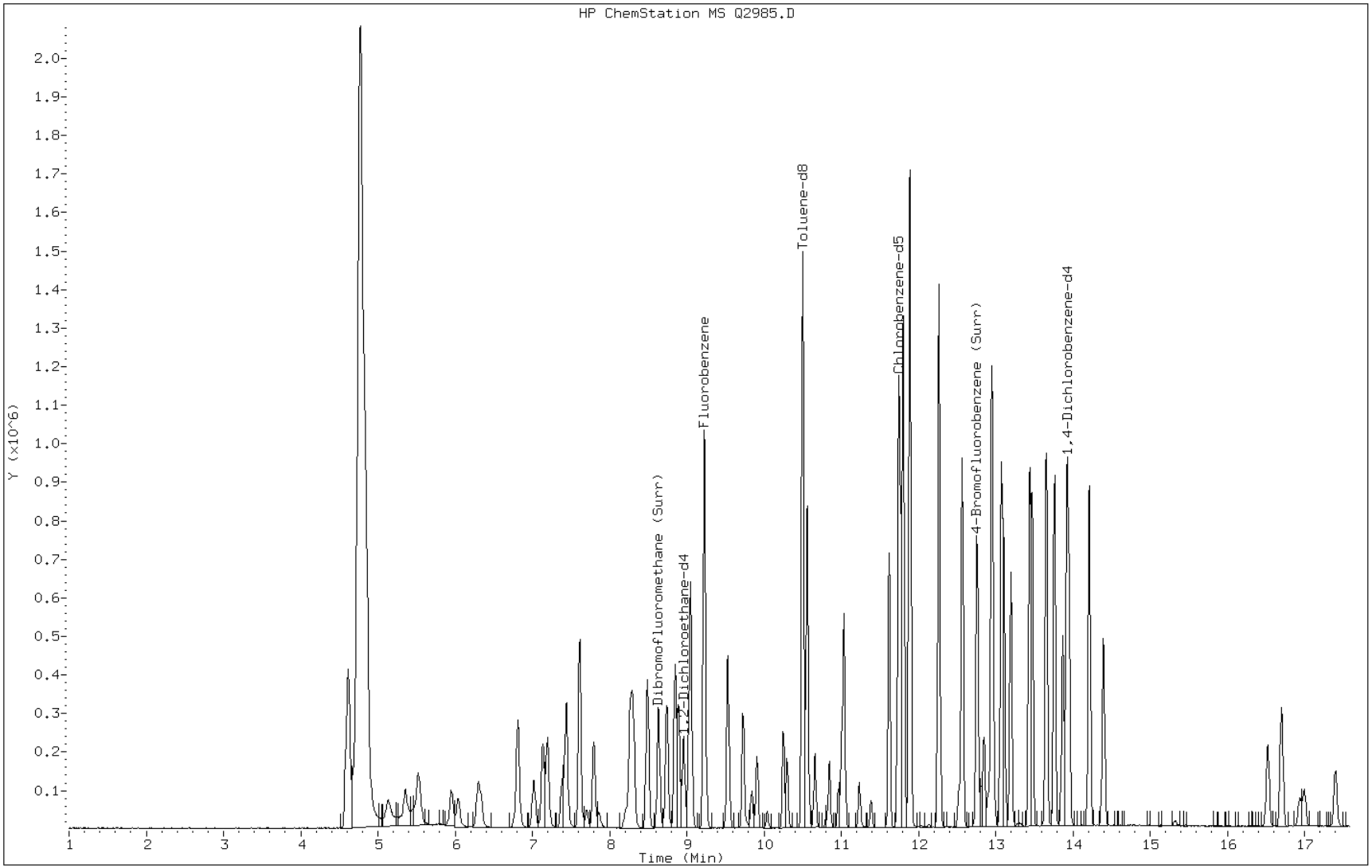
Date: 21-DEC-2011 09:38

Client ID: LCS

Instrument: Q.i

Sample Info: LCS,,

Operator: MEIERG



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-101066/6

Matrix: Water | Lab File ID: Q2988.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/21/2011 10:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 101066 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	4.69		1.0	0.20	0.17
71-55-6	1,1,1-Trichloroethane	5.01		1.0	0.20	0.16
79-34-5	1,1,2,2-Tetrachloroethane	5.04		1.0	0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-triflu oroethane	3.0	U	3.0	3.0	0.79
79-00-5	1,1,2-Trichloroethane	5.13		1.0	0.40	0.32
75-34-3	1,1-Dichloroethane	5.61		1.0	0.20	0.16
75-35-4	1,1-Dichloroethene	6.32		1.0	0.20	0.14
563-58-6	1,1-Dichloropropene	5.14		1.0	0.40	0.15
87-61-6	1,2,3-Trichlorobenzene	3.99		1.0	0.40	0.18
96-18-4	1,2,3-Trichloropropane	4.77		3.0	0.80	0.77
120-82-1	1,2,4-Trichlorobenzene	3.99		1.0	0.80	0.32
95-63-6	1,2,4-Trimethylbenzene	4.55		1.0	0.20	0.14
96-12-8	1,2-Dibromo-3-Chloropropane	4.01	J	5.0	1.6	0.81
95-50-1	1,2-Dichlorobenzene	4.74		1.0	0.20	0.13
107-06-2	1,2-Dichloroethane	5.39		1.0	0.20	0.13
78-87-5	1,2-Dichloropropane	5.07		1.0	0.20	0.13
108-67-8	1,3,5-Trimethylbenzene	4.59		1.0	0.80	0.14
541-73-1	1,3-Dichlorobenzene	4.78		1.0	0.20	0.16
142-28-9	1,3-Dichloropropane	4.83		1.0	0.20	0.15
106-46-7	1,4-Dichlorobenzene	4.75		1.0	0.40	0.16
123-91-1	1,4-Dioxane	219	J	220	80	71
544-10-5	1-Chlorohexane	4.40		1.0	0.20	0.17
594-20-7	2,2-Dichloropropane	5.02		1.0	0.40	0.20
78-93-3	2-Butanone (MEK)	23.8		6.0	3.2	1.8
95-49-8	2-Chlorotoluene	4.61		1.0	0.40	0.17
591-78-6	2-Hexanone	16.3		5.0	3.2	1.4
106-43-4	4-Chlorotoluene	4.56		1.0	0.40	0.17
99-87-6	4-Isopropyltoluene	4.43		1.0	0.40	0.17
108-10-1	4-Methyl-2-pentanone (MIBK)	18.7		5.0	3.2	1.0
67-64-1	Acetone	19.6		10	6.4	1.9
71-43-2	Benzene	5.40		1.0	0.20	0.16
108-86-1	Bromobenzene	4.74		1.0	0.20	0.17
75-25-2	Bromoform	4.27		1.0	0.40	0.19
74-83-9	Bromomethane	3.36		2.0	0.40	0.21
75-15-0	Carbon disulfide	3.33		2.0	0.80	0.45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-101066/6

Matrix: Water | Lab File ID: Q2988.D

Analysis Method: 8260B/DoD | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/21/2011 10:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 101066 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
56-23-5	Carbon tetrachloride	5.14		2.0	0.40	0.19
108-90-7	Chlorobenzene	4.94		1.0	0.20	0.17
74-97-5	Chlorobromomethane	5.11		1.0	0.20	0.10
124-48-1	Chlorodibromomethane	4.66		1.0	0.40	0.17
75-00-3	Chloroethane	4.19		2.0	1.6	0.41
67-66-3	Chloroform	5.31		1.0	0.20	0.16
74-87-3	Chloromethane	3.18		2.0	1.6	0.30
156-59-2	cis-1,2-Dichloroethene	5.11		1.0	0.20	0.15
10061-01-5	cis-1,3-Dichloropropene	4.84		1.0	0.20	0.16
110-82-7	Cyclohexane	0.40	U	2.0	0.40	0.28
74-95-3	Dibromomethane	4.94		1.0	0.40	0.17
75-27-4	Dichlorobromomethane	5.09		1.0	0.20	0.17
75-71-8	Dichlorodifluoromethane	4.11		2.0	0.80	0.31
100-41-4	Ethylbenzene	4.71		1.0	0.20	0.16
106-93-4	Ethylene Dibromide	4.80		1.0	0.20	0.18
87-68-3	Hexachlorobutadiene	4.30		1.0	0.40	0.12
98-82-8	Isopropylbenzene	5.22		1.0	0.40	0.19
79-20-9	Methyl acetate	2.0	U	5.0	2.0	1.6
1634-04-4	Methyl tert-butyl ether	4.66	J	5.0	0.40	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.36
75-09-2	Methylene Chloride	6.20		5.0	0.40	0.32
179601-23-1	m-Xylene & p-Xylene	9.17		2.0	0.80	0.34
91-20-3	Naphthalene	3.70		1.0	0.80	0.22
104-51-8	n-Butylbenzene	4.57		1.0	0.40	0.14
103-65-1	N-Propylbenzene	4.53		1.0	0.20	0.16
95-47-6	o-Xylene	4.48		1.0	0.40	0.19
135-98-8	sec-Butylbenzene	4.50		1.0	0.40	0.17
100-42-5	Styrene	4.30		1.0	0.40	0.17
98-06-6	tert-Butylbenzene	4.57		1.0	0.40	0.16
127-18-4	Tetrachloroethene	4.63		1.0	0.40	0.20
108-88-3	Toluene	5.09		1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	5.78		1.0	0.20	0.15
10061-02-6	trans-1,3-Dichloropropene	4.71		1.0	0.40	0.19
79-01-6	Trichloroethene	5.13		1.0	0.20	0.16
75-69-4	Trichlorofluoromethane	4.22		2.0	0.80	0.29
75-01-4	Vinyl chloride	3.29		1.5	0.80	0.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 280-101066/6

Matrix: Water Lab File ID: Q2988.D

Analysis Method: 8260B/DoD Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/21/2011 10:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 101066 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-120
460-00-4	4-Bromofluorobenzene (Surr)	91		75-120
1868-53-7	Dibromofluoromethane (Surr)	101		85-115
2037-26-5	Toluene-d8 (Surr)	92		85-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\Q2988.D
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 21-DEC-2011 10:42
Operator : MEIERG Inst ID: Q.i
Smp Info : LCSD,,
Misc Info : Q2985.D
Comment :
Method : \\DenSvr03\Public\chem\MSV\Q.i\122111.B\8260B-H2O.m
Meth Date : 20-Dec-2011 09:39 meierg Quant Type: ISTD
Cal Date : 16-DEC-2011 13:18 Cal File: Q2761.D
Als bottle: 2 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DOD.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 60 Fluorobenzene	96	9.224	9.226	(1.000)	1181270	12.5000	
* 95 Chlorobenzene-d5	119	11.741	11.743	(1.000)	247757	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	13.921	13.924	(1.000)	313708	12.5000	
$ 50 Dibromofluoromethane (Surr)	111	8.630	8.632	(0.936)	265644	10.1049	10.1049
$ 56 1,2-Dichloroethane-d4	65	8.952	8.961	(0.971)	209681	10.3071	10.3071
$ 82 Toluene-d8	98	10.496	10.499	(0.894)	1217986	9.24972	9.24972
$ 107 4-Bromofluorobenzene (Surr)	95	12.756	12.758	(0.916)	340439	9.12638	9.12638
M 1 1,2-Dichloroethene (total)	96				343060	10.8868	10.8868
M 2 Xylene (total)	106				853147	13.6564	13.6564
M 3 1,3-Dichloropropene (total)	75				269628	9.54982	9.54982
M 4 Trihalomethanes (total)	83				473185	19.3263	19.3263
5 dichlorodifluoromethane	85	5.134	5.144	(0.557)	127660	4.11294	4.11294
6 1,2-Dichlorotetrafluoroethane	85	5.134	5.300	(0.557)	128259	9.15509	9.15509
7 Chloromethane	50	5.348	5.351	(0.580)	100835	3.17971	3.17971
8 Vinyl Chloride	62	5.520	5.516	(0.598)	120972	3.28721	3.28721
9 Ethylene Oxide	43	5.892	5.908	(0.639)	1123	152.239	152.239
10 Bromomethane	94	5.949	5.952	(0.645)	84794	3.36263	3.36263
11 Chloroethane	64	6.042	6.037	(0.655)	92035	4.19256	4.19256
12 Dichlorofluoromethane	67	Compound Not Detected.					
13 Trichlorofluoromethane	101	6.299	6.302	(0.683)	218635	4.21763	4.21762
14 Ethanol	45	Compound Not Detected.					
15 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
16 Ethyl Ether	59	Compound Not Detected.					
17 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.					
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	6.771	6.774	(0.734)	36786	19.6389	19.6389
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 1,1-Dichloroethene	96	6.807	6.810	(0.738)	177919	6.31581	6.31580
23 2-propanol	45	Compound Not Detected.					
24 Iodomethane	142	7.014	7.024	(0.760)	216477	5.33736	5.33736
25 Acetonitrile	41	7.136	7.039	(0.774)	15496	19.0123	19.0123(aQ)
26 Methyl Acetate	43	Compound Not Detected.					
27 Carbon Disulfide	76	7.136	7.131	(0.774)	452959	3.33042	3.33042
28 Allyl Chloride	41	7.136	7.095	(0.774)	15496	0.33026	0.330262(aQ)
29 tert-Butyl alcohol	59	7.136	7.139	(0.774)	58466	102.534	102.534
30 Methylene Chloride	84	7.193	7.196	(0.780)	157542	6.20105	6.20105
31 Acrylonitrile	53	7.608	7.367	(0.825)	8747	3.72741	3.72741(aQ)
32 Methyl t-butyl ether	73	7.386	7.388	(0.801)	178190	4.66485	4.66485(a)
33 trans-1,2-Dichloroethene	96	7.443	7.439	(0.807)	185566	5.78174	5.78174
34 Hexane	57	7.615	7.610	(0.826)	327317	5.86305	5.86305
35 Vinyl acetate	43	7.708	7.710	(0.836)	89861	4.48944	4.48944
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	7.794	7.789	(0.845)	295413	5.60914	5.60914
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
40 Ethyl Acetate	43	8.194	8.175	(0.888)	63588	8.17838	8.17838(Q)
41 2-Butanone	43	8.194	8.197	(0.888)	63588	23.8406	23.8406
42 sec-Butyl Alcohol	45	8.230	8.232	(0.892)	58399	142.318	142.318
43 cis-1,2-Dichloroethene	96	8.266	8.268	(0.896)	157494	5.10506	5.10506
44 2,2-Dichloropropane	77	8.301	8.304	(0.900)	253703	5.01543	5.01543
45 Propionitrile	54	Compound Not Detected.					
46 Methacrylonitrile	41	Compound Not Detected.					
47 Bromochloromethane	128	8.487	8.483	(0.920)	48693	5.11422	5.11422
48 Chloroform	83	8.487	8.490	(0.920)	248592	5.30996	5.30996
49 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	8.737	8.740	(0.947)	263406	5.01325	5.01325
52 Isobutanol	41	Compound Not Detected.					
53 Cyclohexane	56	Compound Not Detected.					
54 1,1-Dichloropropene	75	8.845	8.847	(0.959)	251778	5.13712	5.13712
55 Carbon Tetrachloride	117	8.895	8.898	(0.964)	227521	5.13622	5.13622
57 TAME	73	Compound Not Detected.					
58 1,2-Dichloroethane	62	9.016	9.019	(0.978)	119706	5.39144	5.39144
59 Benzene	78	9.045	9.048	(0.981)	650915	5.40458	5.40458
61 n-Butanol	56	9.224	9.226	(1.000)	7254	35.7044	35.7044(aQ)
64 Trichloroethene	95	9.524	9.527	(1.033)	170223	5.12584	5.12584
65 2-Pentanone	43	9.553	9.562	(1.036)	41435	8.63638	8.63638
66 Methyl Methacrylate	100	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
69 1,2-Dichloropropane	63	9.724	9.727	(1.054)	122206	5.06785	5.06785
70 1,4-Dioxane	88	9.774	9.777	(1.060)	16628	218.606	218.606
71 Dibromomethane	93	9.839	9.841	(1.067)	43502	4.93814	4.93814
72 Bromodichloromethane	83	9.903	9.906	(1.074)	135254	5.09023	5.09023
74 2-nitropropane	41	10.296	10.055	(1.116)	29347	13.3489	13.3489
75 2-Chloroethyl vinyl ether	63	10.039	10.041	(1.088)	21764	3.25391	3.25391
79 cis-1,3-Dichloropropene	75	10.246	10.249	(1.111)	156547	4.83731	4.83731
80 4-Methyl-2-pentanone	43	10.296	10.299	(1.116)	113336	18.6840	18.6840

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
83 Toluene	91	10.554	10.556	(1.144)	686175	5.08527	5.08527
85 Ethyl methacrylate	69	Compound Not Detected.					
86 trans-1,3-Dichloropropene	75	10.661	10.656	(1.156)	113081	4.71251	4.71251
87 1,1,2-Trichloroethane	97	10.847	10.850	(1.176)	58639	5.13108	5.13108
88 2-Hexanone	43	10.961	10.964	(0.934)	68480	16.3156	16.3156
89 1,3-Dichloropropane	76	11.004	11.007	(0.937)	107432	4.83301	4.83301
90 Tetrachloroethene	164	11.033	11.035	(0.940)	130362	4.63406	4.63406
91 Dibromochloromethane	129	11.233	11.236	(0.957)	63878	4.65760	4.65760
92 Tetrahydrothiophene	60	Compound Not Detected.					
93 1,2-Dibromoethane	107	11.383	11.386	(0.970)	51738	4.80196	4.80196
94 1-Chlorohexane	91	11.619	11.622	(0.990)	235129	4.39897	4.39897
96 Chlorobenzene	112	11.769	11.772	(1.002)	392799	4.94005	4.94005
97 1,1,1,2-Tetrachloroethane	131	11.805	11.808	(1.005)	107058	4.69376	4.69376
98 Ethylbenzene	106	11.798	11.800	(1.005)	244503	4.71052	4.71052
99 m and p-Xylene	106	11.884	11.886	(1.012)	593730	9.17427	9.17427
101 o-Xylene	106	12.262	12.265	(1.044)	259417	4.48212	4.48212
102 Styrene	104	12.262	12.265	(1.044)	350132	4.29537	4.29537
103 Bromoform	173	12.520	12.523	(1.066)	25461	4.26851	4.26851
104 isopropyl benzene	105	12.563	12.566	(0.902)	775653	5.21626	5.21626
105 cis-1,4-dichloro-2-butene	53	12.570	12.601	(0.903)	8807	3.13798	3.13798(Q)
106 Cyclohexanone	55	12.742	12.744	(0.915)	20807	103.841	103.840
108 1,1,2,2-Tetrachloroethane	83	12.806	12.809	(0.920)	55681	5.04458	5.04458
109 t-1,4-Dichloro-2-butene	53	12.842	12.851	(0.922)	59965	20.9717	20.9717
110 1,2,3-Trichloropropane	110	12.899	12.902	(0.927)	14655	4.76789	4.76789
111 Bromobenzene	156	12.963	12.966	(0.931)	121623	4.74486	4.74486
112 n-Propylbenzene	120	12.942	12.945	(0.930)	210488	4.52906	4.52906
113 2-Chlorotoluene	126	13.106	13.109	(0.941)	162439	4.60683	4.60683
114 1,3,5-Trimethylbenzene	105	13.070	13.073	(0.939)	590553	4.58829	4.58829
115 4-Chlorotoluene	126	13.192	13.202	(0.948)	156183	4.56120	4.56120
116 tert-Butylbenzene	119	13.435	13.438	(0.965)	602183	4.56872	4.56872
117 1,2,4-Trimethylbenzene	105	13.471	13.474	(0.968)	567716	4.55296	4.55296
118 sec-Butylbenzene	134	13.650	13.652	(0.980)	168823	4.50376	4.50376
119 4-Isopropyltoluene	119	13.757	13.760	(0.988)	656132	4.43183	4.43183
120 1,3-Dichlorobenzene	146	13.864	13.867	(0.996)	263629	4.77571	4.77571
122 1,4-dichlorobenzene	146	13.950	13.953	(1.002)	251329	4.74593	4.74593
123 1,2,3-Trimethylbenzene	105	Compound Not Detected.					
124 n-Butylbenzene	91	14.207	14.210	(1.021)	645120	4.56852	4.56852
125 1,2-Dichlorobenzene	146	14.393	14.403	(1.034)	199466	4.74138	4.74138
126 1,2-Dibromo-3-chloropropane	157	15.323	15.326	(1.101)	5236	4.01166	4.01166
127 1,2,4-Trichlorobenzene	180	16.524	16.520	(1.187)	102821	3.99129	3.99129
128 Hexachlorobutadiene	225	16.703	16.705	(1.200)	89549	4.29514	4.29514
129 Naphthalene	128	16.989	16.991	(1.220)	113854	3.70239	3.70238
130 1,2,3-Trichlorobenzene	180	17.396	17.399	(1.250)	76244	3.99293	3.99292

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: Q2988.D

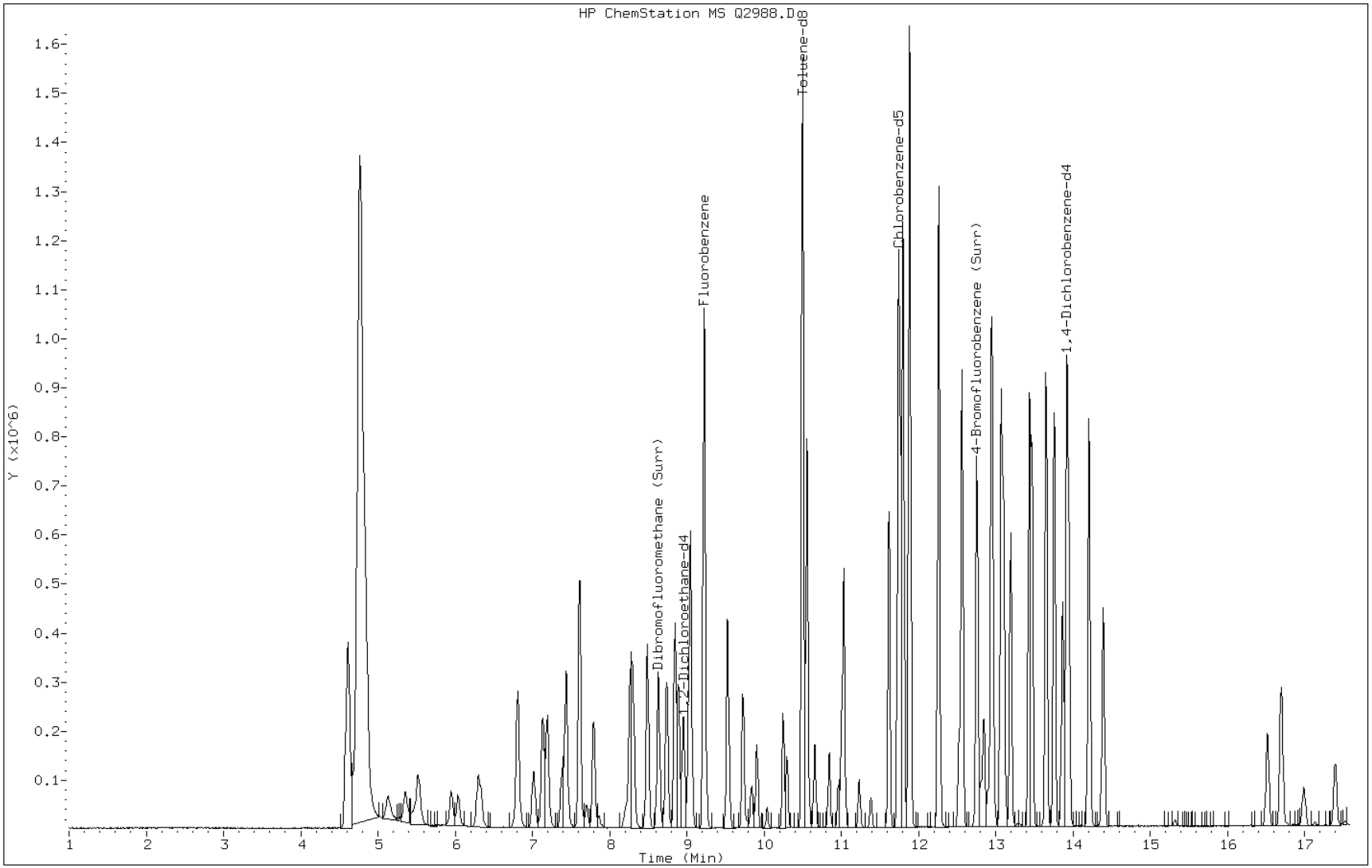
Date: 21-DEC-2011 10:42

Client ID: LCSD

Instrument: Q.i

Sample Info: LCSD,,

Operator: MEIERG



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MSV_Q Start Date: 12/16/2011 09:05

Analysis Batch Number: 100335 End Date: 12/16/2011 20:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-100335/1		12/16/2011 09:05	1	Q2749.D	DB-624 (60.25) 0.25(mm)
IC 280-100335/2		12/16/2011 09:16	1	Q2750.D	DB-624 (60.25) 0.25(mm)
IC 280-100335/3		12/16/2011 09:38	1	Q2751.D	DB-624 (60.25) 0.25(mm)
IC 280-100335/4		12/16/2011 10:00	1	Q2752.D	DB-624 (60.25) 0.25(mm)
IC 280-100335/5		12/16/2011 10:22	1	Q2753.D	DB-624 (60.25) 0.25(mm)
IC 280-100335/6		12/16/2011 10:44	1	Q2754.D	DB-624 (60.25) 0.25(mm)
IC 280-100335/7		12/16/2011 11:06	1	Q2755.D	DB-624 (60.25) 0.25(mm)
IC 280-100335/8		12/16/2011 11:28	1	Q2756.D	DB-624 (60.25) 0.25(mm)
ICV 280-100335/9		12/16/2011 11:50	1	Q2757.D	DB-624 (60.25) 0.25(mm)
ICV 280-100335/10		12/16/2011 12:12	1	Q2758.D	DB-624 (60.25) 0.25(mm)
ICV 280-100335/11		12/16/2011 12:34	1	Q2759.D	DB-624 (60.25) 0.25(mm)
IC 280-100335/12		12/16/2011 12:56	1	Q2760.D	DB-624 (60.25) 0.25(mm)
IC 280-100335/13		12/16/2011 13:18	1	Q2761.D	DB-624 (60.25) 0.25(mm)
IC 280-100335/14		12/16/2011 13:40	1	Q2762.D	DB-624 (60.25) 0.25(mm)
ICIS 280-100335/15		12/16/2011 14:02	1	Q2763.D	DB-624 (60.25) 0.25(mm)
IC 280-100335/16		12/16/2011 14:24	1	Q2764.D	DB-624 (60.25) 0.25(mm)
IC 280-100335/17		12/16/2011 14:46	1	Q2765.D	DB-624 (60.25) 0.25(mm)
ICV 280-100335/18		12/16/2011 15:08	1	Q2766.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 15:30	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 15:52	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 16:14	1		DB-624 (60.25) 0.25(mm)
ICV 280-100335/19		12/16/2011 16:36	1	Q2770.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 16:58	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 17:20	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 17:42	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 18:03	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 18:25	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 18:47	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 19:09	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 19:31	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 19:53	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 20:15	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/16/2011 20:44	1		DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MSV_Q Start Date: 12/21/2011 08:00

Analysis Batch Number: 101066 End Date: 12/21/2011 20:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-101066/1		12/21/2011 08:00	1	Q2980.D	DB-624 (60.25) 0.25(mm)
CCV 280-101066/2		12/21/2011 08:32	1	Q2982.D	DB-624 (60.25) 0.25(mm)
CCV 280-101066/3		12/21/2011 08:54	1	Q2983.D	DB-624 (60.25) 0.25(mm)
LCS 280-101066/4		12/21/2011 09:38	1	Q2985.D	DB-624 (60.25) 0.25(mm)
MB 280-101066/5		12/21/2011 10:21	1	Q2987.D	DB-624 (60.25) 0.25(mm)
LCSD 280-101066/6		12/21/2011 10:42	1	Q2988.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 11:06	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 11:28	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 11:49	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 12:11	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 12:33	2		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 13:38	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 14:00	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 14:22	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 14:44	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 15:06	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 15:28	1		DB-624 (60.25) 0.25(mm)
280-23566-1	B3VM0114AA	12/21/2011 15:49	1	Q3002.D	DB-624 (60.25) 0.25(mm)
280-23566-2	120711AE	12/21/2011 16:11	1	Q3003.D	DB-624 (60.25) 0.25(mm)
280-23566-3	120711AF	12/21/2011 16:33	1	Q3004.D	DB-624 (60.25) 0.25(mm)
280-23566-4	120711AR	12/21/2011 16:55	1	Q3005.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 17:17	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 17:39	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 18:44	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 19:06	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 19:28	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 19:50	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		12/21/2011 20:12	1		DB-624 (60.25) 0.25(mm)

Method 8270C DOD

Semivolatile Compounds (GC/MS) by Method 8270/DOD

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Vf-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
B3VM0114AA	280-23566-1	82	87	87	75	89	80
120711AE	280-23566-2	82	87	86	75	87	76
	MB 280-99533/1-A	81	86	85	75	86	87
	LCS 280-99533/2-A	81	85	86	78	93	91

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	20-110
PHL = Phenol-d5 (Surr)	10-115
NBZ = Nitrobenzene-d5 (Surr)	40-110
FBP = 2-Fluorobiphenyl	50-110
TBP = 2,4,6-Tribromophenol (Surr)	40-125
TPH = Terphenyl-d14 (Surr)	50-135

Column to be used to flag recovery values

FORM II 8270D/DoD

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Matrix: Water Level: Low Lab File ID: B8724.D

Lab ID: LCS 280-99533/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2,4-Trichlorobenzene	80.0	64.4	81	35-105	
1,2-Dichlorobenzene	80.0	65.0	81	35-100	
1,2-Diphenylhydrazine	80.9	74.9	93	55-115	
1,3-Dichlorobenzene	80.0	62.6	78	30-100	
1,4-Dichlorobenzene	80.0	64.4	81	30-100	
2,2'-oxybis[1-chloropropane]	80.0	69.0	86	25-130	
2,4,5-Trichlorophenol	80.0	71.9	90	50-110	
2,4,6-Trichlorophenol	80.0	75.3	94	50-115	
2,4-Dichlorophenol	80.0	71.9	90	50-105	
2,4-Dimethylphenol	80.0	63.7	80	30-110	
2,4-Dinitrophenol	80.0	71.7 J	90	15-140	
2,4-Dinitrotoluene	80.0	78.5	98	50-120	
2,6-Dinitrotoluene	80.0	73.7	92	50-115	
2-Chloronaphthalene	80.0	69.1	86	50-105	
2-Chlorophenol	80.0	70.0	88	35-105	
2-Methylnaphthalene	80.0	67.8	85	45-105	
2-Methylphenol	80.0	68.1	85	40-110	
2-Nitroaniline	80.0	77.0	96	50-115	
2-Nitrophenol	80.0	75.4	94	40-115	
3 & 4 Methylphenol	160	134	84	30-110	
3,3'-Dichlorobenzidine	80.0	51.2	64	20-110	
3-Nitroaniline	80.0	77.4	97	20-125	
4,6-Dinitro-2-methylphenol	80.0	76.8 J	96	40-130	
4-Bromophenyl phenyl ether	80.0	71.0	89	50-115	
4-Chloro-3-methylphenol	80.0	73.7	92	45-110	
4-Chloroaniline	80.0	67.8	85	15-110	
4-Chlorophenyl phenyl ether	80.0	70.9	89	50-110	
4-Nitroaniline	80.0	76.5	96	35-120	
4-Nitrophenol	80.0	75.3	94	10-125	
Acenaphthene	80.0	69.7	87	45-110	
Acenaphthylene	80.0	73.5	92	50-105	
Anthracene	80.0	72.8	91	55-110	
Benzo[a]anthracene	80.0	73.5	92	55-110	
Benzo[a]pyrene	80.0	64.7	81	55-110	
Benzo[b]fluoranthene	80.0	66.5	83	45-120	
Benzo[g,h,i]perylene	80.0	73.7	92	40-125	
Benzo[k]fluoranthene	80.0	74.0	93	45-125	
Benzoic acid	80.0	72.5 J	91	10-125	
Benzyl alcohol	80.0	72.4	90	30-110	
Bis(2-chloroethoxy)methane	80.0	69.5	87	45-105	
Bis(2-chloroethyl)ether	80.0	69.9	87	35-110	
Bis(2-ethylhexyl) phthalate	80.0	80.5	101	40-125	

Column to be used to flag recovery and RPD values

FORM III 8270D/DoD

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Matrix: Water Level: Low Lab File ID: B8724.D

Lab ID: LCS 280-99533/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Butyl benzyl phthalate	80.0	76.3	95	45-115	
Carbazole	80.0	73.5	92	50-115	
Chrysene	80.0	70.7	88	55-110	
Dibenz(a,h)anthracene	80.0	73.7	92	40-125	
Dibenzofuran	80.0	71.9	90	55-105	
Diethyl phthalate	80.0	73.0	91	40-120	
Dimethyl phthalate	80.0	74.0	93	25-125	
Di-n-butyl phthalate	80.0	75.9	95	55-115	
Di-n-octyl phthalate	80.0	78.5	98	35-135	
Fluoranthene	80.0	73.6	92	55-115	
Fluorene	80.0	71.7	90	50-110	
Hexachlorobenzene	80.0	71.3	89	50-110	
Hexachlorobutadiene	80.0	63.9	80	25-105	
Hexachlorocyclopentadiene	80.0	41.8 J	52	10-82	
Hexachloroethane	80.0	61.8	77	30-95	
Indeno[1,2,3-cd]pyrene	80.0	71.5	89	45-125	
Isophorone	80.0	71.4	89	50-110	
Naphthalene	80.0	67.0	84	40-100	
Nitrobenzene	80.0	69.6	87	45-110	
N-Nitrosodimethylamine	80.0	68.0	85	25-110	
N-Nitrosodi-n-propylamine	80.0	70.1	88	35-130	
N-Nitrosodiphenylamine	68.3	59.3	87	50-110	
Pentachlorophenol	80.0	66.2 J	83	40-115	
Phenanthrene	80.0	72.1	90	50-115	
Phenol	80.0	71.4	89	10-115	
Pyrene	80.0	72.2	90	50-130	

Column to be used to flag recovery and RPD values

FORM III 8270D/DoD

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab File ID: B8723.D Lab Sample ID: MB 280-99533/1-A

Matrix: Water Date Extracted: 12/10/2011 12:10

Instrument ID: MSS_B Date Analyzed: 12/29/2011 14:37

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-99533/2-A	B8724.D	12/29/2011 14:57
B3VM0114AA	280-23566-1	B8740.D	12/29/2011 20:09
120711AE	280-23566-2	B8741.D	12/29/2011 20:28

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab File ID: B8326.D DFTPP Injection Date: 12/05/2011

Instrument ID: MSS_B DFTPP Injection Time: 11:35

Analysis Batch No.: 99260

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	35.7	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	40.2	
70	Less than 2.0 % of mass 69	0.2	(0.6)1
127	40.0 - 60.0 % of mass 198	49.7	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.1	
275	10.0 - 30.0 % of mass 198	22.4	
365	Greater than 1.0 % of mass 198	2.7	
441	Present but less than mass 443	10.3	
442	Greater than 40.0 % of mass 198	68.7	
443	17.0 - 23.0 % of mass 442	13.0	(18.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 280-99260/2	B8335.D	12/05/2011	14:21
	STD010 280-99260/3	B8336.D	12/05/2011	14:41
	STD020 280-99260/4	B8337.D	12/05/2011	15:00
	STD050 280-99260/5	B8338.D	12/05/2011	15:20
	STD120 280-99260/6	B8339.D	12/05/2011	15:39
	STD160 280-99260/7	B8340.D	12/05/2011	15:59
	STD200 280-99260/8	B8341.D	12/05/2011	16:18
	ICV 280-99260/9	B8342.D	12/05/2011	16:38

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab File ID: B8355.D DFTPP Injection Date: 12/06/2011

Instrument ID: MSS_B DFTPP Injection Time: 08:15

Analysis Batch No.: 99305

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	37.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	40.4	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	40.0 - 60.0 % of mass 198	50.0	
197	Less than 1.0 % of mass 198	0.1	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.9	
275	10.0 - 30.0 % of mass 198	22.3	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	10.4	
442	Greater than 40.0 % of mass 198	68.0	
443	17.0 - 23.0 % of mass 442	13.0	(19.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 280-99305/2	B8375.D	12/06/2011	14:38
	STD010 280-99305/3	B8376.D	12/06/2011	14:58
	STD020 280-99305/4	B8377.D	12/06/2011	15:17
	STD050 280-99305/5	B8378.D	12/06/2011	15:37
	STD120 280-99305/6	B8379.D	12/06/2011	15:56
	STD160 280-99305/7	B8380.D	12/06/2011	16:16
	STD200 280-99305/8	B8381.D	12/06/2011	16:36
	ICV 280-99305/9	B8382.D	12/06/2011	16:55
	ICV 280-99305/10	B8383.D	12/06/2011	17:15

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab File ID: B8465.D DFTPP Injection Date: 12/15/2011

Instrument ID: MSS_B DFTPP Injection Time: 09:10

Analysis Batch No.: 100158

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	33.1	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	37.9	
70	Less than 2.0 % of mass 69	0.1	(0.3)1
127	40.0 - 60.0 % of mass 198	48.2	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.7	
275	10.0 - 30.0 % of mass 198	23.8	
365	Greater than 1.0 % of mass 198	2.7	
441	Present but less than mass 443	13.2	
442	Greater than 40.0 % of mass 198	82.9	
443	17.0 - 23.0 % of mass 442	15.7	(18.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 280-100158/2	B8466.D	12/15/2011	09:20
	STD004 280-100158/3	B8467.D	12/15/2011	09:39
	STD010 280-100158/4	B8468.D	12/15/2011	09:59
	STD020 280-100158/5	B8469.D	12/15/2011	10:18
	STD050 280-100158/6	B8470.D	12/15/2011	10:38
	STD120 280-100158/7	B8471.D	12/15/2011	10:57
	STD160 280-100158/8	B8472.D	12/15/2011	11:17
	STD200 280-100158/9	B8473.D	12/15/2011	11:36
	ICV 280-100158/10	B8474.D	12/15/2011	11:55
	ICV 280-100158/11	B8475.D	12/15/2011	12:15
	ICV 280-100158/12	B8476.D	12/15/2011	12:34

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab File ID: B8716.D DFTPP Injection Date: 12/29/2011

Instrument ID: MSS_B DFTPP Injection Time: 12:29

Analysis Batch No.: 101947

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	34.7	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	39.0	
70	Less than 2.0 % of mass 69	0.3	(0.8)1
127	40.0 - 60.0 % of mass 198	48.4	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.4	
275	10.0 - 30.0 % of mass 198	23.4	
365	Greater than 1.0 % of mass 198	2.5	
441	Present but less than mass 443	9.9	
442	Greater than 40.0 % of mass 198	73.8	
443	17.0 - 23.0 % of mass 442	14.2	(19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-101947/2	B8717.D	12/29/2011	12:39
	CCV 280-101947/3	B8718.D	12/29/2011	12:59
	CCV 280-101947/4	B8719.D	12/29/2011	13:19
	MB 280-99533/1-A	B8723.D	12/29/2011	14:37
	LCS 280-99533/2-A	B8724.D	12/29/2011	14:57
B3VM0114AA	280-23566-1	B8740.D	12/29/2011	20:09
120711AE	280-23566-2	B8741.D	12/29/2011	20:28

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Sample No.: ICIS 280-99260/2 Date Analyzed: 12/05/2011 14:21

Instrument ID: MSS_B GC Column: Vf-5MS (30.25) ID: 0.25(mm)

Lab File ID (Standard): B8335.D Heated Purge: (Y/N) N

Calibration ID: 8009

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		316935	4.94	1235293	6.18	704839	7.90
UPPER LIMIT		633870	5.44	2470586	6.68	1409678	8.40
LOWER LIMIT		158468	4.44	617647	5.68	352420	7.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-99260/9		315487	4.94	1214061	6.18	691120	7.91
CCV 280-101947/4		319140	4.90	1219769	6.15	687656	7.88

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D/DOD

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Sample No.: ICIS 280-99260/2 Date Analyzed: 12/05/2011 14:21

Instrument ID: MSS_B GC Column: Vf-5MS (30.25) ID: 0.25(mm)

Lab File ID (Standard): B8335.D Heated Purge: (Y/N) N

Calibration ID: 8009

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1173583	9.18	1238757	11.28	1093228	12.60
UPPER LIMIT		2347166	9.68	2477514	11.78	2186456	13.10
LOWER LIMIT		586792	8.68	619379	10.78	546614	12.10
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-99260/9		1179202	9.18	1234842	11.32	1076466	12.65
CCV 280-101947/4		1176927	9.15	1308285	11.22	1190309	12.51

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D/DOD

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Sample No.: ICIS 280-99305/2 Date Analyzed: 12/06/2011 14:38

Instrument ID: MSS_B GC Column: Vf-5MS (30.25) ID: 0.25(mm)

Lab File ID (Standard): B8375.D Heated Purge: (Y/N) N

Calibration ID: 8021

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		286672	4.94	1109246	6.18	657286	7.90
UPPER LIMIT		573344	5.44	2218492	6.68	1314572	8.40
LOWER LIMIT		143336	4.44	554623	5.68	328643	7.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-99305/9		283438	4.94	1106545	6.18	658895	7.90
ICV 280-99305/10		276439	4.94	1090120	6.18	643574	7.90
CCV 280-101947/3		311662	4.90	1229177	6.15	723318	7.88

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D/DOD

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Sample No.: ICIS 280-99305/2 Date Analyzed: 12/06/2011 14:38

Instrument ID: MSS_B GC Column: Vf-5MS (30.25) ID: 0.25(mm)

Lab File ID (Standard): B8375.D Heated Purge: (Y/N) N

Calibration ID: 8021

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1122687	9.18	1177919	11.28	1055809	12.60
UPPER LIMIT		2245374	9.68	2355838	11.78	2111618	13.10
LOWER LIMIT		561344	8.68	588960	10.78	527905	12.10
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-99305/9		1128388	9.18	1190009	11.29	1078221	12.62
ICV 280-99305/10		1106231	9.18	1148355	11.29	1039187	12.62
CCV 280-101947/3		1238148	9.15	1320772	11.22	1200465	12.51

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D/DOD

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Sample No.: ICIS 280-100158/2 Date Analyzed: 12/15/2011 09:20

Instrument ID: MSS_B GC Column: Vf-5MS (30.25) ID: 0.25(mm)

Lab File ID (Standard): B8466.D Heated Purge: (Y/N) N

Calibration ID: 8074

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		303301	4.92	1213701	6.17	709898	7.90
UPPER LIMIT		606602	5.42	2427402	6.67	1419796	8.40
LOWER LIMIT		151651	4.42	606851	5.67	354949	7.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-100158/10		287023	4.92	1134995	6.17	666692	7.90
ICV 280-100158/11		395334	4.92	1535147	6.17	909611	7.89
ICV 280-100158/12		380567	4.92	1482536	6.17	858320	7.90
CCV 280-101947/2		307093	4.90	1225467	6.15	734419	7.88
MB 280-99533/1-A		305634	4.89	1225150	6.15	722844	7.88
LCS 280-99533/2-A		310086	4.90	1233487	6.15	737703	7.88
280-23566-1	B3VM0114AA	311274	4.90	1253307	6.15	754814	7.88
280-23566-2	120711AE	311212	4.89	1240839	6.15	731161	7.88

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D/DOD

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Sample No.: ICIS 280-100158/2 Date Analyzed: 12/15/2011 09:20

Instrument ID: MSS_B GC Column: Vf-5MS (30.25) ID: 0.25(mm)

Lab File ID (Standard): B8466.D Heated Purge: (Y/N) N

Calibration ID: 8074

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1197723	9.17	1292191	11.31	1172320	12.63
UPPER LIMIT		2395446	9.67	2584382	11.81	2344640	13.13
LOWER LIMIT		598862	8.67	646096	10.81	586160	12.13
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-100158/10		1139479	9.17	1222474	11.26	1101117	12.57
ICV 280-100158/11		1553061	9.17	1688241	11.26	1531955	12.57
ICV 280-100158/12		1469582	9.17	1596347	11.26	1433825	12.57
CCV 280-101947/2		1256279	9.15	1327686	11.24	1238753	12.53
MB 280-99533/1-A		1282816	9.15	1402459	11.22	1263886	12.51
LCS 280-99533/2-A		1267834	9.15	1339085	11.23	1252689	12.51
280-23566-1	B3VM0114AA	1302091	9.15	1405601	11.22	1278736	12.50
280-23566-2	120711AE	1271957	9.15	1374658	11.21	1251403	12.49

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D/DOD

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: B3VM0114AA | Lab Sample ID: 280-23566-1

Matrix: Water | Lab File ID: B8740.D

Analysis Method: 8270D/DoD | Date Collected: 12/07/2011 11:20

Extract. Method: 3520C | Date Extracted: 12/10/2011 12:10

Sample wt/vol: 1034.3(mL) | Date Analyzed: 12/29/2011 20:09

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 101947 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
92-52-4	1,1'-Biphenyl	1.9	U	9.7	1.9	1.7
95-94-3	1,2,4,5-Tetrachlorobenzene	1.9	U	9.7	1.9	1.7
120-82-1	1,2,4-Trichlorobenzene	0.97	U	9.7	0.97	0.27
95-50-1	1,2-Dichlorobenzene	0.97	U	9.7	0.97	0.22
122-66-7	1,2-Diphenylhydrazine	0.97	U	9.7	0.97	0.22
541-73-1	1,3-Dichlorobenzene	0.97	U	9.7	0.97	0.29
106-46-7	1,4-Dichlorobenzene	0.97	U	9.7	0.97	0.31
108-60-1	2,2'-oxybis[1-chloropropane]	0.97	U	9.7	0.97	0.27
58-90-2	2,3,4,6-Tetrachlorophenol	1.9	U	48	1.9	1.9
95-95-4	2,4,5-Trichlorophenol	0.97	U	19	0.97	0.44
88-06-2	2,4,6-Trichlorophenol	0.97	U	19	0.97	0.28
120-83-2	2,4-Dichlorophenol	1.9	U	9.7	1.9	0.62
105-67-9	2,4-Dimethylphenol	3.9	U	9.7	3.9	0.56
51-28-5	2,4-Dinitrophenol	19	U	77	19	9.7
121-14-2	2,4-Dinitrotoluene	3.9	U	19	3.9	1.6
87-65-0	2,6-Dichlorophenol	3.9	U	9.7	3.9	1.3
606-20-2	2,6-Dinitrotoluene	3.9	U	19	3.9	1.8
91-58-7	2-Chloronaphthalene	0.97	U	9.7	0.97	0.25
95-57-8	2-Chlorophenol	3.9	U	9.7	3.9	1.9
91-57-6	2-Methylnaphthalene	0.97	U	9.7	0.97	0.28
95-48-7	2-Methylphenol	3.9	U	9.7	3.9	0.95
88-74-4	2-Nitroaniline	3.9	U	48	3.9	1.7
88-75-5	2-Nitrophenol	0.97	U	19	0.97	0.38
15831-10-4	3 & 4 Methylphenol	0.97	U	19	0.97	0.24
91-94-1	3,3'-Dichlorobenzidine	9.7	U	48	9.7	1.9
99-09-2	3-Nitroaniline	1.9	U	48	1.9	1.9
534-52-1	4,6-Dinitro-2-methylphenol	9.7	U	77	9.7	3.9
101-55-3	4-Bromophenyl phenyl ether	0.97	U	9.7	0.97	0.42
59-50-7	4-Chloro-3-methylphenol	4.8	U	19	4.8	2.3
106-47-8	4-Chloroaniline	4.8	U	24	4.8	2.1
7005-72-3	4-Chlorophenyl phenyl ether	3.9	U	9.7	3.9	1.6
100-01-6	4-Nitroaniline	3.9	U	48	3.9	1.9
100-02-7	4-Nitrophenol	9.7	U	48	9.7	1.2
83-32-9	Acenaphthene	0.97	U	9.7	0.97	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: B3VM0114AA | Lab Sample ID: 280-23566-1

Matrix: Water | Lab File ID: B8740.D

Analysis Method: 8270D/DoD | Date Collected: 12/07/2011 11:20

Extract. Method: 3520C | Date Extracted: 12/10/2011 12:10

Sample wt/vol: 1034.3(mL) | Date Analyzed: 12/29/2011 20:09

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 101947 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
208-96-8	Acenaphthylene	0.97	U	9.7	0.97	0.47
98-86-2	Acetophenone	4.8	U	9.7	4.8	0.23
120-12-7	Anthracene	0.97	U	9.7	0.97	0.41
1912-24-9	Atrazine	9.7	U	48	9.7	0.71
100-52-7	Benzaldehyde	1.9	U	9.7	1.9	1.9
92-87-5	Benzidine	97	U	190	97	48
56-55-3	Benzo[a]anthracene	0.97	U	9.7	0.97	0.34
50-32-8	Benzo[a]pyrene	0.97	U	9.7	0.97	0.30
205-99-2	Benzo[b]fluoranthene	0.97	U	9.7	0.97	0.51
191-24-2	Benzo[g,h,i]perylene	0.97	U	9.7	0.97	0.48
207-08-9	Benzo[k]fluoranthene	0.97	U	9.7	0.97	0.44
65-85-0	Benzoic acid	48	U	77	48	9.7
100-51-6	Benzyl alcohol	0.97	U	24	0.97	0.22
111-91-1	Bis(2-chloroethoxy)methane	3.9	U	9.7	3.9	0.94
111-44-4	Bis(2-chloroethyl)ether	0.97	U	19	0.97	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	0.97	U	9.7	0.97	0.54
85-68-7	Butyl benzyl phthalate	3.9	U	19	3.9	0.97
105-60-2	Caprolactam	9.7	U	34	9.7	4.8
86-74-8	Carbazole	0.97	U	9.7	0.97	0.42
218-01-9	Chrysene	0.97	U	9.7	0.97	0.52
53-70-3	Dibenz(a,h)anthracene	0.97	U	9.7	0.97	0.49
132-64-9	Dibenzofuran	0.97	U	9.7	0.97	0.28
84-66-2	Diethyl phthalate	0.97	U	19	0.97	0.37
131-11-3	Dimethyl phthalate	0.97	U	19	0.97	0.20
84-74-2	Di-n-butyl phthalate	3.9	U	19	3.9	1.1
117-84-0	Di-n-octyl phthalate	0.97	U	19	0.97	0.34
206-44-0	Fluoranthene	0.97	U	19	0.97	0.19
86-73-7	Fluorene	0.97	U	9.7	0.97	0.30
118-74-1	Hexachlorobenzene	0.97	U	9.7	0.97	0.64
87-68-3	Hexachlorobutadiene	9.7	U	29	9.7	3.2
77-47-4	Hexachlorocyclopentadiene	19	U	48	19	1.5
67-72-1	Hexachloroethane	3.9	U	9.7	3.9	2.0
193-39-5	Indeno[1,2,3-cd]pyrene	0.97	U	9.7	0.97	0.63
78-59-1	Isophorone	0.97	U	9.7	0.97	0.20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: B3VM0114AA | Lab Sample ID: 280-23566-1

Matrix: Water | Lab File ID: B8740.D

Analysis Method: 8270D/DoD | Date Collected: 12/07/2011 11:20

Extract. Method: 3520C | Date Extracted: 12/10/2011 12:10

Sample wt/vol: 1034.3(mL) | Date Analyzed: 12/29/2011 20:09

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 101947 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
91-20-3	Naphthalene	0.97	U	9.7	0.97	0.28
98-95-3	Nitrobenzene	1.9	U	19	1.9	0.78
62-75-9	N-Nitrosodimethylamine	0.97	U	9.7	0.97	0.28
621-64-7	N-Nitrosodi-n-propylamine	0.97	U	19	0.97	0.34
86-30-6	N-Nitrosodiphenylamine	0.97	U	9.7	0.97	0.43
930-55-2	N-Nitrosopyrrolidine	3.9	U	9.7	3.9	0.78
87-86-5	Pentachlorophenol	39	U	77	39	19
85-01-8	Phenanthrene	0.97	U	9.7	0.97	0.25
108-95-2	Phenol	4.8	U	9.7	4.8	1.9
129-00-0	Pyrene	0.97	U	9.7	0.97	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	89		40-125
321-60-8	2-Fluorobiphenyl	75		50-110
367-12-4	2-Fluorophenol (Surr)	82		20-110
4165-60-0	Nitrobenzene-d5 (Surr)	87		40-110
4165-62-2	Phenol-d5 (Surr)	87		10-115
1718-51-0	Terphenyl-d14 (Surr)	80		50-135

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\122911.B\B8740.D
Lab Smp Id: 280-23566-B-1-A Client Smp ID: B3VM0114AA
Inj Date : 29-DEC-2011 20:09
Operator : KIEKELD Inst ID: B.i
Smp Info : 280-23566-B-1-A
Misc Info : 280-23566-B-1-A
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\122911.B\8270C.m
Meth Date : 30-Dec-2011 11:04 kiekeld Quant Type: ISTD
Cal Date : 22-DEC-2011 13:51 Cal File: B8562.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HAB.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1034.300	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 26 1,4-Dichlorobenzene-d4	152	4.895	4.896	(1.000)	311274	40.0000	
* 58 Naphthalene-d8	136	6.146	6.148	(1.000)	1253307	40.0000	
* 96 Acenaphthene-d10	164	7.879	7.881	(1.000)	754814	40.0000	
* 135 Phenanthrene-d10	188	9.149	9.150	(1.000)	1302091	40.0000	
* 166 Chrysene-d12	240	11.217	11.224	(1.000)	1405601	40.0000	
* 179 Perylene-d12	264	12.498	12.511	(1.000)	1278736	40.0000	
$ 8 2-Fluorophenol	112	3.643	3.650	(0.744)	1353341	123.268	119.180
$ 15 Phenol-d5	99	4.507	4.513	(0.921)	1749222	131.072	126.726
$ 43 Nitrobenzene-d5	82	5.435	5.436	(0.884)	1013945	86.5024	83.6338
$ 81 2-Fluorobiphenyl	172	7.210	7.210	(0.915)	1795348	75.1123	72.6214
$ 118 2,4,6-Tribromophenol	330	8.573	8.579	(1.088)	511586	132.768	128.365
$ 154 Terphenyl-d14	244	10.353	10.359	(0.923)	2179849	80.3798	77.7142
$ 29 1,2-Dichlorobenzene-d4	152	5.047	5.048	(1.031)	564452	72.4357	70.0335
$ 22 2-Chlorophenol-d4	132	4.677	4.678	(0.956)	1518141	135.734	131.233
4 1,4-Dioxane	88	Compound Not Detected.					
5 N-Nitrosodimethylamine	74	Compound Not Detected.					
6 Pyridine	79	Compound Not Detected.					
9 2-Picoline	93	Compound Not Detected.					
10 N-Nitrosomethylethylamine	88	Compound Not Detected.					
11 Methyl methanesulfonate	80	Compound Not Detected.					
12 N-Nitrosodiethylamine	102	Compound Not Detected.					
13 Ethyl methanesulfonate	79	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
14	Benzaldehyde	106	Compound Not Detected.					
16	Phenol	94	Compound Not Detected.					
18	Aniline	93	Compound Not Detected.					
19	Methyl Styrene	118	Compound Not Detected.					
20	Bis(2-chloroethyl) ether	93	Compound Not Detected.					
23	2-Chlorophenol	128	Compound Not Detected.					
24	Pentachloroethane	117	Compound Not Detected.					
25	1,3-Dichlorobenzene	146	Compound Not Detected.					
27	1,4-Dichlorobenzene	146	Compound Not Detected.					
28	Benzyl alcohol	108	Compound Not Detected.					
30	1,2-Dichlorobenzene	146	Compound Not Detected.					
32	2-Methylphenol	108	Compound Not Detected.					
34	2,2'-oxybis(1-chloropropane)	45	Compound Not Detected.					
35	1H-Indene	116	Compound Not Detected.					
138	3-Methylphenol	108	Compound Not Detected.					
36	4-Methylphenol	108	Compound Not Detected.					
139	3 & 4-Methylphenol	108	Compound Not Detected.					
37	N-nitrosodi-n-propylamine	70	Compound Not Detected.					
38	Acetophenone	105	Compound Not Detected.					
39	N-Nitrosopyrrolidine	100	Compound Not Detected.					
40	N-Nitrosomorpholine	116	Compound Not Detected.					
41	Hexachloroethane	117	Compound Not Detected.					
42	o-Toluidine	106	Compound Not Detected.					
44	Nitrobenzene	77	Compound Not Detected.					
46	N-Nitrosopiperidine	114	Compound Not Detected.					
47	Isophorone	82	Compound Not Detected.					
49	2-Nitrophenol	139	Compound Not Detected.					
50	2,4-Dimethylphenol	107	Compound Not Detected.					
51	O,O,O-Triethyl phosphorothio	198	Compound Not Detected.					
52	Bis(2-chloroethoxy)methane	93	Compound Not Detected.					
53	Benzoic acid	122	Compound Not Detected.					
54	2,4-Dichlorophenol	162	Compound Not Detected.					
55	a,a-Dimethylphenethylamine	58	Compound Not Detected.					
57	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
59	Naphthalene	128	Compound Not Detected.					
60	4-Chloroaniline	127	Compound Not Detected.					
61	2,6-Dichlorophenol	162	Compound Not Detected.					
62	Hexachlorobutadiene	225	Compound Not Detected.					
63	Hexachloropropene	213	Compound Not Detected.					
64	N-Nitrosodi-n-butylamine	84	Compound Not Detected.					
66	p-Phenylenediamine	108	Compound Not Detected.					
67	Caprolactam	55	Compound Not Detected.					
68	4-Chloro-3-methylphenol	107	Compound Not Detected.					
70	Safrole	162	Compound Not Detected.					
71	2-Methylnaphthalene	142	Compound Not Detected.					
72	1-Methylnaphthalene	142	Compound Not Detected.					
74	Hexachlorocyclopentadiene	237	Compound Not Detected.					
75	1,2,4,5-Tetrachlorobenzene	216	Compound Not Detected.					
76	Isosafrole (#1)	162	Compound Not Detected.					
78	2,4,6-Trichlorophenol	196	Compound Not Detected.					
80	2,4,5-Trichlorophenol	196	Compound Not Detected.					
84	Isosafrole (#2)	104	Compound Not Detected.					
85	Biphenyl	154	Compound Not Detected.					
87	1-Chloronaphthalene	162	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
86	2-Chloronaphthalene	162	Compound Not Detected.					
88	2-Nitroaniline	65	Compound Not Detected.					
89	1,4-Naphthoquinone	158	Compound Not Detected.					
90	1,4-Dinitrobenzene	168	Compound Not Detected.					
91	Dimethyl phthalate	163	Compound Not Detected.					
92	1,3-Dinitrobenzene	168	Compound Not Detected.					
93	2,6-Dinitrotoluene	165	Compound Not Detected.					
94	Acenaphthylene	152	Compound Not Detected.					
95	3-Nitroaniline	138	Compound Not Detected.					
97	Acenaphthene	153	Compound Not Detected.					
98	2,4-Dinitrophenol	184	Compound Not Detected.					
99	4-Nitrophenol	109	Compound Not Detected.					
100	Pentachlorobenzene	250	Compound Not Detected.					
101	2,4-Dinitrotoluene	165	Compound Not Detected.					
102	Dibenzofuran	168	Compound Not Detected.					
103	1-Naphthylamine	143	Compound Not Detected.					
104	2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					
106	2-Naphthylamine	143	Compound Not Detected.					
107	Diethyl phthalate	149	Compound Not Detected.					
108	Thionazin	97	Compound Not Detected.					
109	4-Chlorophenyl phenyl ether	204	Compound Not Detected.					
110	Fluorene	166	Compound Not Detected.					
111	5-Nitro-o-toluidine	152	Compound Not Detected.					
112	4-Nitroaniline	138	Compound Not Detected.					
113	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
115	N-nitrosodiphenylamine	169	Compound Not Detected.					
114	Diphenylamine	169	Compound Not Detected.					
116	Azobenzene	77	Compound Not Detected.					
234	1,2-DPH(as Azobenzene)	77	Compound Not Detected.					
117	Sulfotepp	97	Compound Not Detected.					
119	Diallate (#1)	86	Compound Not Detected.					
120	1,3,5-Trinitrobenzene	213	Compound Not Detected.					
121	Phorate	121	Compound Not Detected.					
122	Phenacetin	108	Compound Not Detected.					
123	Diallate (#2)	86	Compound Not Detected.					
124	4-Bromophenyl phenyl ether	248	Compound Not Detected.					
125	Hexachlorobenzene	284	Compound Not Detected.					
126	Dimethoate	87	Compound Not Detected.					
127	Atrazine	200	Compound Not Detected.					
129	Pentachlorophenol	266	Compound Not Detected.					
130	4-Aminobiphenyl	169	Compound Not Detected.					
131	Pentachloronitrobenzene	237	Compound Not Detected.					
132	Pronamide	173	Compound Not Detected.					
133	Disulfoton	88	Compound Not Detected.					
134	2-secbutyl-4,6-dinitropheno	211	Compound Not Detected.					
136	Phenanthrene	178	Compound Not Detected.					
137	Anthracene	178	Compound Not Detected.					
140	Carbazole	167	Compound Not Detected.					
141	Alachlor	188	Compound Not Detected.					
142	Methyl parathion	109	Compound Not Detected.					
143	Di-n-butyl phthalate	149	Compound Not Detected.					
145	Parathion	109	Compound Not Detected.					
146	4-Nitroquinoline-1-oxide	190	Compound Not Detected.					
147	Methapyrilene	97	Compound Not Detected.					

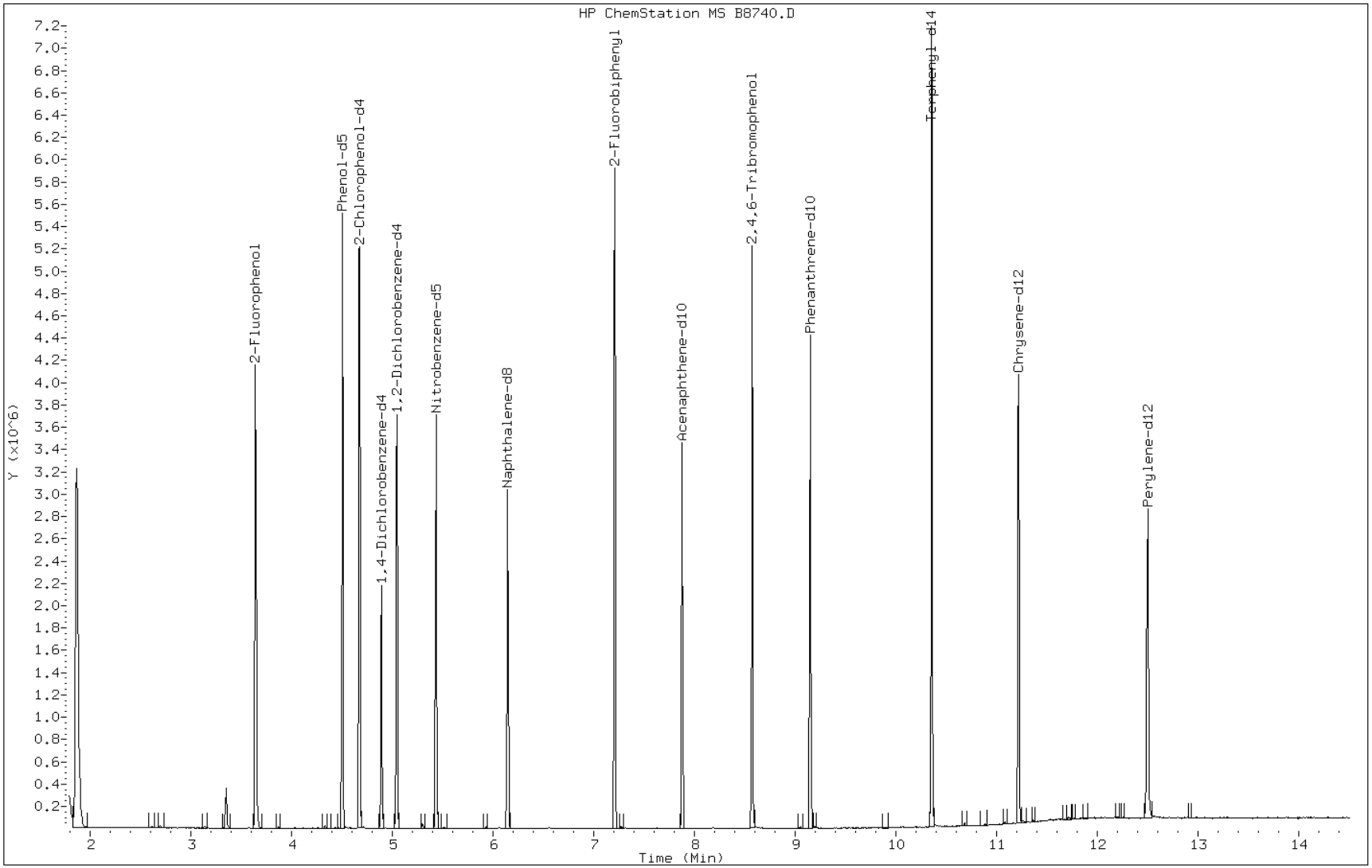
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
148	Isodrin	193	Compound Not Detected.					
149	Fluoranthene	202	Compound Not Detected.					
151	Benzidine	184	Compound Not Detected.					
152	Pyrene	202	Compound Not Detected.					
153	Aramite (#1)	185	Compound Not Detected.					
155	Aramite (#2)	185	Compound Not Detected.					
156	p-Dimethylaminoazobenzene	120	Compound Not Detected.					
157	Chlorobenzilate	251	Compound Not Detected.					
158	Famphur	218	Compound Not Detected.					
159	Butyl benzyl phthalate	149	Compound Not Detected.					
160	3,3'-Dimethylbenzidine	212	Compound Not Detected.					
161	2-Acetylaminofluorene	181	Compound Not Detected.					
162	Bis(2-ethylhexyl) phthalate	149	Compound Not Detected.					
164	3 3'-Dichlorobenzidine	252	Compound Not Detected.					
165	Benzo(a)anthracene	228	Compound Not Detected.					
167	Chrysene	228	Compound Not Detected.					
168	Di-n-octyl phthalate	149	Compound Not Detected.					
170	Hexachlorophene	196	Compound Not Detected.					
171	Benzo(b)fluoranthene	252	Compound Not Detected.					
172	Benzo(k)fluoranthene	252	Compound Not Detected.					
176	7,12-Dimethylbenz(a)anthrac	256	Compound Not Detected.					
178	Benzo(a)pyrene	252	Compound Not Detected.					
181	3-Methylcholanthrene	268	Compound Not Detected.					
184	Dibenz(a,j)acridine	279	Compound Not Detected.					
185	Dibenz(a,h)anthracene	278	Compound Not Detected.					
186	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
188	Benzo(g,h,i)perylene	276	Compound Not Detected.					
M 173	Total Isosafrole	162	Compound Not Detected.					
M 174	Total Diallate	86	Compound Not Detected.					
M 175	Total Aramite	185	Compound Not Detected.					

Data File: B8740.D

Date: 29-DEC-2011 20:09

Client ID: B3VM0114AA Instrument: B.i

Sample Info: 280-23566-B-1-A Operator: KIEKELD



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: 120711AE | Lab Sample ID: 280-23566-2

Matrix: Water | Lab File ID: B8741.D

Analysis Method: 8270D/DoD | Date Collected: 12/07/2011 15:05

Extract. Method: 3520C | Date Extracted: 12/10/2011 12:10

Sample wt/vol: 1022.3(mL) | Date Analyzed: 12/29/2011 20:28

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 101947 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
92-52-4	1,1'-Biphenyl	2.0	U	9.8	2.0	1.7
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	9.8	2.0	1.7
120-82-1	1,2,4-Trichlorobenzene	0.98	U	9.8	0.98	0.27
95-50-1	1,2-Dichlorobenzene	0.98	U	9.8	0.98	0.22
122-66-7	1,2-Diphenylhydrazine	0.98	U	9.8	0.98	0.22
541-73-1	1,3-Dichlorobenzene	0.98	U	9.8	0.98	0.29
106-46-7	1,4-Dichlorobenzene	0.98	U	9.8	0.98	0.31
108-60-1	2,2'-oxybis[1-chloropropane]	0.98	U	9.8	0.98	0.27
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	49	2.0	2.0
95-95-4	2,4,5-Trichlorophenol	0.98	U	20	0.98	0.44
88-06-2	2,4,6-Trichlorophenol	0.98	U	20	0.98	0.28
120-83-2	2,4-Dichlorophenol	2.0	U	9.8	2.0	0.63
105-67-9	2,4-Dimethylphenol	3.9	U	9.8	3.9	0.57
51-28-5	2,4-Dinitrophenol	20	U	78	20	9.8
121-14-2	2,4-Dinitrotoluene	3.9	U	20	3.9	1.6
87-65-0	2,6-Dichlorophenol	3.9	U	9.8	3.9	1.3
606-20-2	2,6-Dinitrotoluene	3.9	U	20	3.9	1.8
91-58-7	2-Chloronaphthalene	0.98	U	9.8	0.98	0.25
95-57-8	2-Chlorophenol	3.9	U	9.8	3.9	2.0
91-57-6	2-Methylnaphthalene	0.98	U	9.8	0.98	0.28
95-48-7	2-Methylphenol	3.9	U	9.8	3.9	0.96
88-74-4	2-Nitroaniline	3.9	U	49	3.9	1.7
88-75-5	2-Nitrophenol	0.98	U	20	0.98	0.38
15831-10-4	3 & 4 Methylphenol	0.98	U	20	0.98	0.24
91-94-1	3,3'-Dichlorobenzidine	9.8	U	49	9.8	2.0
99-09-2	3-Nitroaniline	2.0	U	49	2.0	2.0
534-52-1	4,6-Dinitro-2-methylphenol	9.8	U	78	9.8	3.9
101-55-3	4-Bromophenyl phenyl ether	0.98	U	9.8	0.98	0.42
59-50-7	4-Chloro-3-methylphenol	4.9	U	20	4.9	2.4
106-47-8	4-Chloroaniline	4.9	U	24	4.9	2.1
7005-72-3	4-Chlorophenyl phenyl ether	3.9	U	9.8	3.9	1.6
100-01-6	4-Nitroaniline	3.9	U	49	3.9	2.0
100-02-7	4-Nitrophenol	9.8	U	49	9.8	1.2
83-32-9	Acenaphthene	0.98	U	9.8	0.98	0.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: 120711AE | Lab Sample ID: 280-23566-2

Matrix: Water | Lab File ID: B8741.D

Analysis Method: 8270D/DoD | Date Collected: 12/07/2011 15:05

Extract. Method: 3520C | Date Extracted: 12/10/2011 12:10

Sample wt/vol: 1022.3(mL) | Date Analyzed: 12/29/2011 20:28

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 101947 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
208-96-8	Acenaphthylene	0.98	U	9.8	0.98	0.48
98-86-2	Acetophenone	0.30	J	9.8	4.9	0.23
120-12-7	Anthracene	0.98	U	9.8	0.98	0.41
1912-24-9	Atrazine	9.8	U	49	9.8	0.71
100-52-7	Benzaldehyde	2.0	U	9.8	2.0	2.0
92-87-5	Benzidine	98	U	200	98	49
56-55-3	Benzo[a]anthracene	0.98	U	9.8	0.98	0.34
50-32-8	Benzo[a]pyrene	0.98	U	9.8	0.98	0.30
205-99-2	Benzo[b]fluoranthene	0.98	U	9.8	0.98	0.52
191-24-2	Benzo[g,h,i]perylene	0.98	U	9.8	0.98	0.49
207-08-9	Benzo[k]fluoranthene	0.98	U	9.8	0.98	0.45
65-85-0	Benzoic acid	49	U	78	49	9.8
100-51-6	Benzyl alcohol	0.98	U	24	0.98	0.22
111-91-1	Bis(2-chloroethoxy)methane	3.9	U	9.8	3.9	0.95
111-44-4	Bis(2-chloroethyl)ether	0.98	U	20	0.98	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	0.98	U	9.8	0.98	0.55
85-68-7	Butyl benzyl phthalate	3.9	U	20	3.9	0.98
105-60-2	Caprolactam	9.8	U	34	9.8	4.9
86-74-8	Carbazole	0.98	U	9.8	0.98	0.42
218-01-9	Chrysene	0.98	U	9.8	0.98	0.53
53-70-3	Dibenz(a,h)anthracene	0.98	U	9.8	0.98	0.50
132-64-9	Dibenzofuran	0.98	U	9.8	0.98	0.28
84-66-2	Diethyl phthalate	0.98	U	20	0.98	0.37
131-11-3	Dimethyl phthalate	0.98	U	20	0.98	0.21
84-74-2	Di-n-butyl phthalate	3.9	U	20	3.9	1.1
117-84-0	Di-n-octyl phthalate	0.98	U	20	0.98	0.34
206-44-0	Fluoranthene	0.98	U	20	0.98	0.20
86-73-7	Fluorene	0.98	U	9.8	0.98	0.30
118-74-1	Hexachlorobenzene	0.98	U	9.8	0.98	0.65
87-68-3	Hexachlorobutadiene	9.8	U	29	9.8	3.2
77-47-4	Hexachlorocyclopentadiene	20	U	49	20	1.5
67-72-1	Hexachloroethane	3.9	U	9.8	3.9	2.1
193-39-5	Indeno[1,2,3-cd]pyrene	0.98	U	9.8	0.98	0.64
78-59-1	Isophorone	0.98	U	9.8	0.98	0.21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: 120711AE | Lab Sample ID: 280-23566-2

Matrix: Water | Lab File ID: B8741.D

Analysis Method: 8270D/DoD | Date Collected: 12/07/2011 15:05

Extract. Method: 3520C | Date Extracted: 12/10/2011 12:10

Sample wt/vol: 1022.3(mL) | Date Analyzed: 12/29/2011 20:28

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 101947 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
91-20-3	Naphthalene	0.98	U	9.8	0.98	0.28
98-95-3	Nitrobenzene	2.0	U	20	2.0	0.79
62-75-9	N-Nitrosodimethylamine	0.98	U	9.8	0.98	0.28
621-64-7	N-Nitrosodi-n-propylamine	0.98	U	20	0.98	0.34
86-30-6	N-Nitrosodiphenylamine	0.98	U	9.8	0.98	0.43
930-55-2	N-Nitrosopyrrolidine	3.9	U	9.8	3.9	0.79
87-86-5	Pentachlorophenol	39	U	78	39	20
85-01-8	Phenanthrene	0.98	U	9.8	0.98	0.25
108-95-2	Phenol	4.9	U	9.8	4.9	2.0
129-00-0	Pyrene	0.98	U	9.8	0.98	0.36

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	87		40-125
321-60-8	2-Fluorobiphenyl	75		50-110
367-12-4	2-Fluorophenol (Surr)	82		20-110
4165-60-0	Nitrobenzene-d5 (Surr)	86		40-110
4165-62-2	Phenol-d5 (Surr)	87		10-115
1718-51-0	Terphenyl-d14 (Surr)	76		50-135

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\122911.B\B8741.D
Lab Smp Id: 280-23566-B-2-A Client Smp ID: 120711AE
Inj Date : 29-DEC-2011 20:28
Operator : KIEKELD Inst ID: B.i
Smp Info : 280-23566-B-2-A
Misc Info : 280-23566-B-2-A
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\122911.B\8270C.m
Meth Date : 30-Dec-2011 11:04 kiekeld Quant Type: ISTD
Cal Date : 22-DEC-2011 13:51 Cal File: B8562.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HAB.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1022.300	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 26	1,4-Dichlorobenzene-d4	152	4.894	4.896	(1.000)	311212	40.0000	
* 58	Naphthalene-d8	136	6.146	6.148	(1.000)	1240839	40.0000	
* 96	Acenaphthene-d10	164	7.879	7.881	(1.000)	731161	40.0000	
* 135	Phenanthrene-d10	188	9.148	9.150	(1.000)	1271957	40.0000	
* 166	Chrysene-d12	240	11.211	11.224	(1.000)	1374658	40.0000	
* 179	Perylene-d12	264	12.491	12.511	(1.000)	1251403	40.0000	
$ 8	2-Fluorophenol	112	3.643	3.650	(0.744)	1342236	122.281	119.614
$ 15	Phenol-d5	99	4.507	4.513	(0.921)	1738243	130.276	127.434
$ 43	Nitrobenzene-d5	82	5.435	5.436	(0.884)	995912	85.8177	83.9457
$ 81	2-Fluorobiphenyl	172	7.209	7.210	(0.915)	1743347	75.2962	73.6537
$ 118	2,4,6-Tribromophenol	330	8.578	8.579	(1.089)	488853	130.972	128.115
$ 154	Terphenyl-d14	244	10.353	10.359	(0.923)	2026636	76.4123	74.7455
$ 29	1,2-Dichlorobenzene-d4	152	5.047	5.048	(1.031)	577392	74.1110	72.4944
$ 22	2-Chlorophenol-d4	132	4.671	4.678	(0.954)	1483703	132.681	129.787
4	1,4-Dioxane	88	Compound Not Detected.					
5	N-Nitrosodimethylamine	74	Compound Not Detected.					
6	Pyridine	79	Compound Not Detected.					
9	2-Picoline	93	Compound Not Detected.					
10	N-Nitrosomethylethylamine	88	Compound Not Detected.					
11	Methyl methanesulfonate	80	Compound Not Detected.					
12	N-Nitrosodiethylamine	102	Compound Not Detected.					
13	Ethyl methanesulfonate	79	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
14	Benzaldehyde	106	4.483	4.485	(0.916)	503	0.05632	0.0550875(aQ)
16	Phenol	94	Compound Not Detected.					
18	Aniline	93	Compound Not Detected.					
19	Methyl Styrene	118	Compound Not Detected.					
20	Bis(2-chloroethyl) ether	93	Compound Not Detected.					
23	2-Chlorophenol	128	Compound Not Detected.					
24	Pentachloroethane	117	Compound Not Detected.					
25	1,3-Dichlorobenzene	146	Compound Not Detected.					
27	1,4-Dichlorobenzene	146	Compound Not Detected.					
28	Benzyl alcohol	108	Compound Not Detected.					
30	1,2-Dichlorobenzene	146	Compound Not Detected.					
32	2-Methylphenol	108	Compound Not Detected.					
34	2,2'-oxybis(1-chloropropane)	45	Compound Not Detected.					
35	1H-Indene	116	Compound Not Detected.					
138	3-Methylphenol	108	Compound Not Detected.					
36	4-Methylphenol	108	Compound Not Detected.					
139	3 & 4-Methylphenol	108	Compound Not Detected.					
37	N-nitrosodi-n-propylamine	70	Compound Not Detected.					
38	Acetophenone	105	5.276	5.277	(1.078)	4620	0.30674	0.300051(a)
39	N-Nitrosopyrrolidine	100	Compound Not Detected.					
40	N-Nitrosomorpholine	116	Compound Not Detected.					
41	Hexachloroethane	117	Compound Not Detected.					
42	o-Toluidine	106	Compound Not Detected.					
44	Nitrobenzene	77	Compound Not Detected.					
46	N-Nitrosopiperidine	114	Compound Not Detected.					
47	Isophorone	82	Compound Not Detected.					
49	2-Nitrophenol	139	Compound Not Detected.					
50	2,4-Dimethylphenol	107	Compound Not Detected.					
51	O,O,O-Triethyl phosphorothio	198	Compound Not Detected.					
52	Bis(2-chloroethoxy)methane	93	Compound Not Detected.					
53	Benzoic acid	122	Compound Not Detected.					
54	2,4-Dichlorophenol	162	Compound Not Detected.					
55	a,a-Dimethylphenethylamine	58	Compound Not Detected.					
57	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
59	Naphthalene	128	Compound Not Detected.					
60	4-Chloroaniline	127	Compound Not Detected.					
61	2,6-Dichlorophenol	162	Compound Not Detected.					
62	Hexachlorobutadiene	225	Compound Not Detected.					
63	Hexachloropropene	213	Compound Not Detected.					
64	N-Nitrosodi-n-butylamine	84	Compound Not Detected.					
66	p-Phenylenediamine	108	Compound Not Detected.					
67	Caprolactam	55	Compound Not Detected.					
68	4-Chloro-3-methylphenol	107	Compound Not Detected.					
70	Safrole	162	Compound Not Detected.					
71	2-Methylnaphthalene	142	Compound Not Detected.					
72	1-Methylnaphthalene	142	Compound Not Detected.					
74	Hexachlorocyclopentadiene	237	Compound Not Detected.					
75	1,2,4,5-Tetrachlorobenzene	216	Compound Not Detected.					
76	Isosafrole (#1)	162	Compound Not Detected.					
78	2,4,6-Trichlorophenol	196	Compound Not Detected.					
80	2,4,5-Trichlorophenol	196	Compound Not Detected.					
84	Isosafrole (#2)	104	Compound Not Detected.					
85	Biphenyl	154	Compound Not Detected.					
87	1-Chloronaphthalene	162	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
86	2-Chloronaphthalene	162	Compound Not Detected.					
88	2-Nitroaniline	65	Compound Not Detected.					
89	1,4-Naphthoquinone	158	Compound Not Detected.					
90	1,4-Dinitrobenzene	168	Compound Not Detected.					
91	Dimethyl phthalate	163	Compound Not Detected.					
92	1,3-Dinitrobenzene	168	Compound Not Detected.					
93	2,6-Dinitrotoluene	165	Compound Not Detected.					
94	Acenaphthylene	152	Compound Not Detected.					
95	3-Nitroaniline	138	Compound Not Detected.					
97	Acenaphthene	153	Compound Not Detected.					
98	2,4-Dinitrophenol	184	Compound Not Detected.					
99	4-Nitrophenol	109	Compound Not Detected.					
100	Pentachlorobenzene	250	Compound Not Detected.					
101	2,4-Dinitrotoluene	165	Compound Not Detected.					
102	Dibenzofuran	168	Compound Not Detected.					
103	1-Naphthylamine	143	Compound Not Detected.					
104	2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					
106	2-Naphthylamine	143	Compound Not Detected.					
107	Diethyl phthalate	149	Compound Not Detected.					
108	Thionazin	97	Compound Not Detected.					
109	4-Chlorophenyl phenyl ether	204	Compound Not Detected.					
110	Fluorene	166	Compound Not Detected.					
111	5-Nitro-o-toluidine	152	Compound Not Detected.					
112	4-Nitroaniline	138	Compound Not Detected.					
113	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
115	N-nitrosodiphenylamine	169	Compound Not Detected.					
114	Diphenylamine	169	Compound Not Detected.					
116	Azobenzene	77	Compound Not Detected.					
234	1,2-DPH(as Azobenzene)	77	Compound Not Detected.					
117	Sulfotepp	97	Compound Not Detected.					
119	Diallate (#1)	86	Compound Not Detected.					
120	1,3,5-Trinitrobenzene	213	Compound Not Detected.					
121	Phorate	121	Compound Not Detected.					
122	Phenacetin	108	Compound Not Detected.					
123	Diallate (#2)	86	Compound Not Detected.					
124	4-Bromophenyl phenyl ether	248	Compound Not Detected.					
125	Hexachlorobenzene	284	Compound Not Detected.					
126	Dimethoate	87	Compound Not Detected.					
127	Atrazine	200	Compound Not Detected.					
129	Pentachlorophenol	266	Compound Not Detected.					
130	4-Aminobiphenyl	169	Compound Not Detected.					
131	Pentachloronitrobenzene	237	Compound Not Detected.					
132	Pronamide	173	Compound Not Detected.					
133	Disulfoton	88	Compound Not Detected.					
134	2-secbutyl-4,6-dinitropheno	211	Compound Not Detected.					
136	Phenanthrene	178	Compound Not Detected.					
137	Anthracene	178	Compound Not Detected.					
140	Carbazole	167	Compound Not Detected.					
141	Alachlor	188	Compound Not Detected.					
142	Methyl parathion	109	Compound Not Detected.					
143	Di-n-butyl phthalate	149	Compound Not Detected.					
145	Parathion	109	Compound Not Detected.					
146	4-Nitroquinoline-1-oxide	190	Compound Not Detected.					
147	Methapyrilene	97	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
148	Isodrin	193	Compound Not Detected.					
149	Fluoranthene	202	Compound Not Detected.					
151	Benzidine	184	Compound Not Detected.					
152	Pyrene	202	Compound Not Detected.					
153	Aramite (#1)	185	Compound Not Detected.					
155	Aramite (#2)	185	Compound Not Detected.					
156	p-Dimethylaminoazobenzene	120	Compound Not Detected.					
157	Chlorobenzilate	251	Compound Not Detected.					
158	Famphur	218	Compound Not Detected.					
159	Butyl benzyl phthalate	149	Compound Not Detected.					
160	3,3'-Dimethylbenzidine	212	Compound Not Detected.					
161	2-Acetylaminofluorene	181	Compound Not Detected.					
162	Bis(2-ethylhexyl) phthalate	149	Compound Not Detected.					
164	3 3'-Dichlorobenzidine	252	Compound Not Detected.					
165	Benzo(a)anthracene	228	Compound Not Detected.					
167	Chrysene	228	Compound Not Detected.					
168	Di-n-octyl phthalate	149	Compound Not Detected.					
170	Hexachlorophene	196	Compound Not Detected.					
171	Benzo(b)fluoranthene	252	Compound Not Detected.					
172	Benzo(k)fluoranthene	252	Compound Not Detected.					
176	7,12-Dimethylbenz(a)anthrac	256	Compound Not Detected.					
178	Benzo(a)pyrene	252	Compound Not Detected.					
181	3-Methylcholanthrene	268	Compound Not Detected.					
184	Dibenz(a,j)acridine	279	Compound Not Detected.					
185	Dibenz(a,h)anthracene	278	Compound Not Detected.					
186	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
188	Benzo(g,h,i)perylene	276	Compound Not Detected.					
M 173	Total Isosafrole	162	Compound Not Detected.					
M 174	Total Diallate	86	Compound Not Detected.					
M 175	Total Aramite	185	Compound Not Detected.					

QC Flag Legend

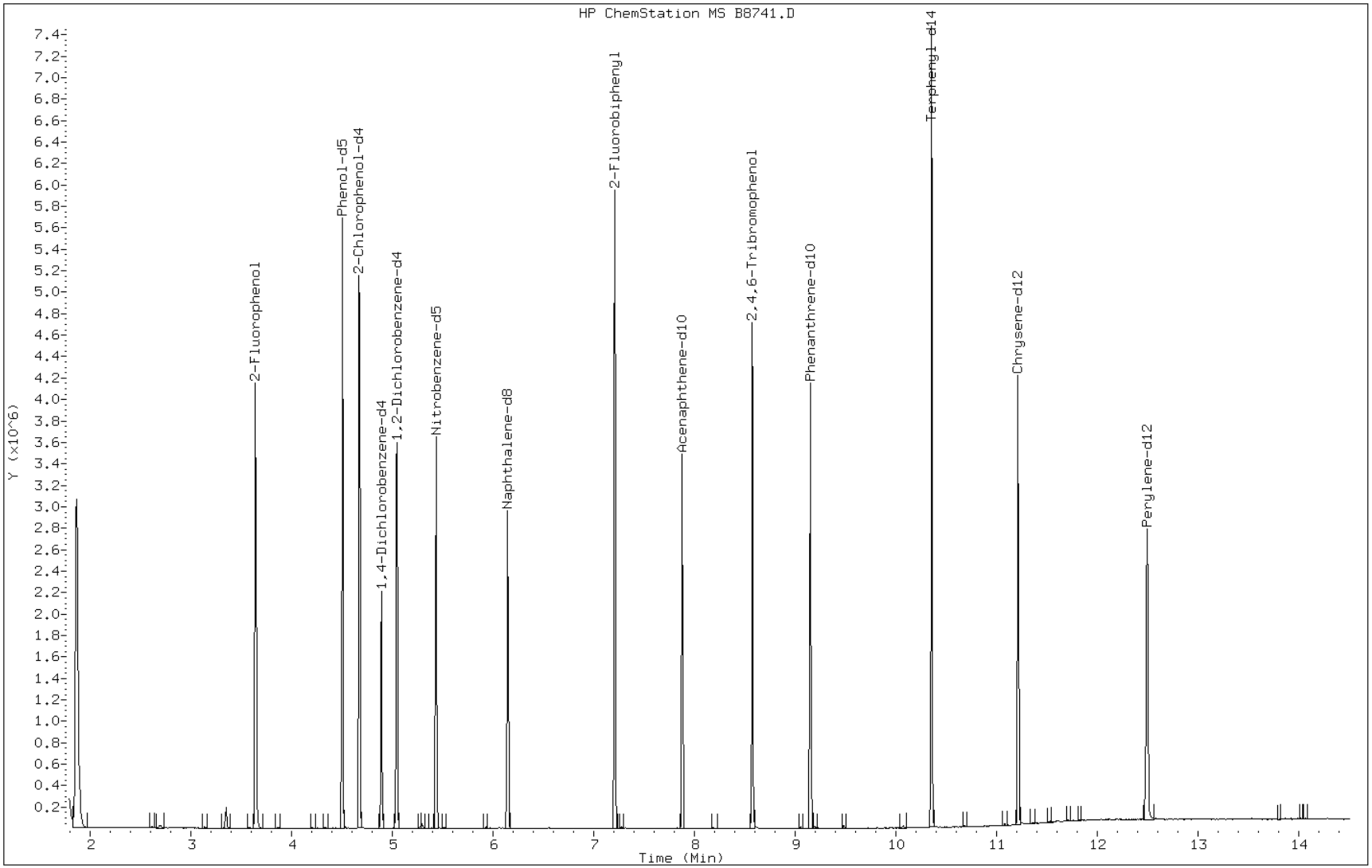
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: B8741.D

Date: 29-DEC-2011 20:28

Client ID: 120711AE Instrument: B.i

Sample Info: 280-23566-B-2-A Operator: KIEKELD



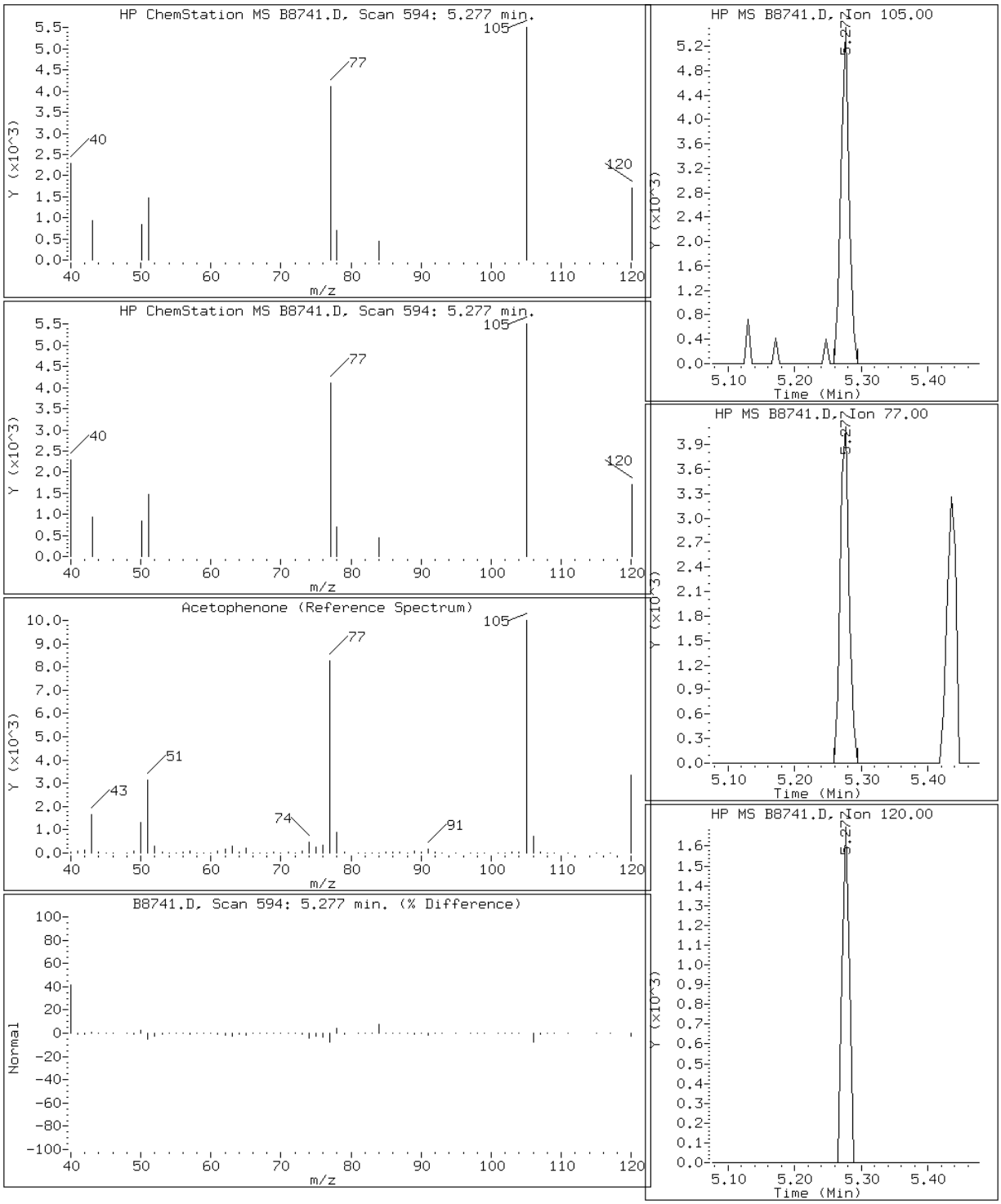
Data File: B8741.D

Date: 29-DEC-2011 20:28

Client ID: 120711AE Instrument: B.i

Sample Info: 280-23566-B-2-A Operator: KIEKELD

38 Acetophenone



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 99260

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2011 14:21 Calibration End Date: 12/05/2011 16:18 Calibration ID: 8009

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD010 280-99260/3	B8336.D
Level 2	STD020 280-99260/4	B8337.D
Level 3	STD050 280-99260/5	B8338.D
Level 4	ICIS 280-99260/2	B8335.D
Level 5	STD120 280-99260/6	B8339.D
Level 6	STD160 280-99260/7	B8340.D
Level 7	STD200 280-99260/8	B8341.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzaldehyde	1.1933 1.1259	1.1196 1.1163	1.1595	1.1807	1.1406	Ave		1.1480				2.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 99260

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/05/2011 14:21 Calibration End Date: 12/05/2011 16:18 Calibration ID: 8009

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD010 280-99260/3	B8336.D
Level 2	STD020 280-99260/4	B8337.D
Level 3	STD050 280-99260/5	B8338.D
Level 4	ICIS 280-99260/2	B8335.D
Level 5	STD120 280-99260/6	B8339.D
Level 6	STD160 280-99260/7	B8340.D
Level 7	STD200 280-99260/8	B8341.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzaldehyde	DCB	Ave	95102 1369423	173520 1704146	445497	748384	1066553	10.0 160	20.0 200	50.0	80.0	120

Curve Type Legend:
Ave = Average ISTD

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\B8335.D
Lab Smp Id: ICIS-1002539 Client Smp ID: MS-BZHD080_00008
Inj Date : 05-DEC-2011 14:21
Operator : KIEKELD Inst ID: B.i
Smp Info : ICIS-1002539,,MS-BZHD080_00008
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\8270C.m
Meth Date : 08-Dec-2011 14:32 B.i Quant Type: ISTD
Cal Date : 05-DEC-2011 16:18 Cal File: B8341.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzaldehyde.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

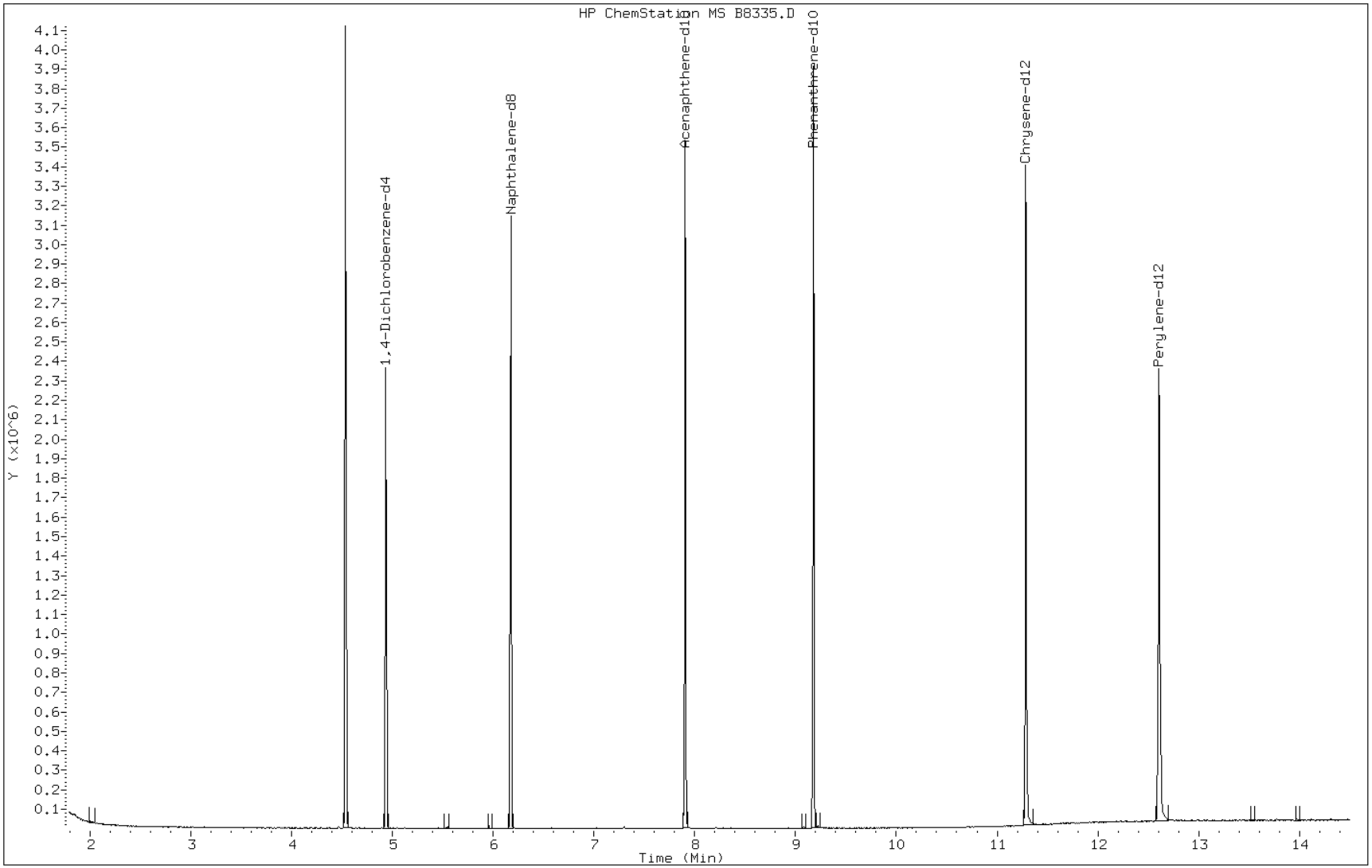
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.937	4.937	(1.000)	316935	40.0000	
* 58 Naphthalene-d8	136	6.176	6.176	(1.000)	1235293	40.0000	
* 96 Acenaphthene-d10	164	7.904	7.904	(1.000)	704839	40.0000	
* 135 Phenanthrene-d10	188	9.179	9.179	(1.000)	1173583	40.0000	
* 166 Chrysene-d12	240	11.282	11.282	(1.000)	1238757	40.0000	
* 179 Perylene-d12	264	12.604	12.604	(1.000)	1093228	40.0000	
14 Benzaldehyde	106	4.537	4.537	(0.919)	748384	80.0000	82.2762

Data File: B8335.D

Date: 05-DEC-2011 14:21

Client ID: MS-BZHD080_00008 Instrument: B.i

Sample Info: ICIS-1002539,,MS-BZHD080_00008 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\B8336.D
Lab Smp Id: STD010-1002536 Client Smp ID: MS-BZHD010_00008
Inj Date : 05-DEC-2011 14:41
Operator : KIEKELD Inst ID: B.i
Smp Info : STD010-1002536,,MS-BZHD010_00008
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\8270C.m
Meth Date : 08-Dec-2011 14:32 B.i Quant Type: ISTD
Cal Date : 05-DEC-2011 14:21 Cal File: B8335.D
Als bottle: 11 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzaldehyde.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

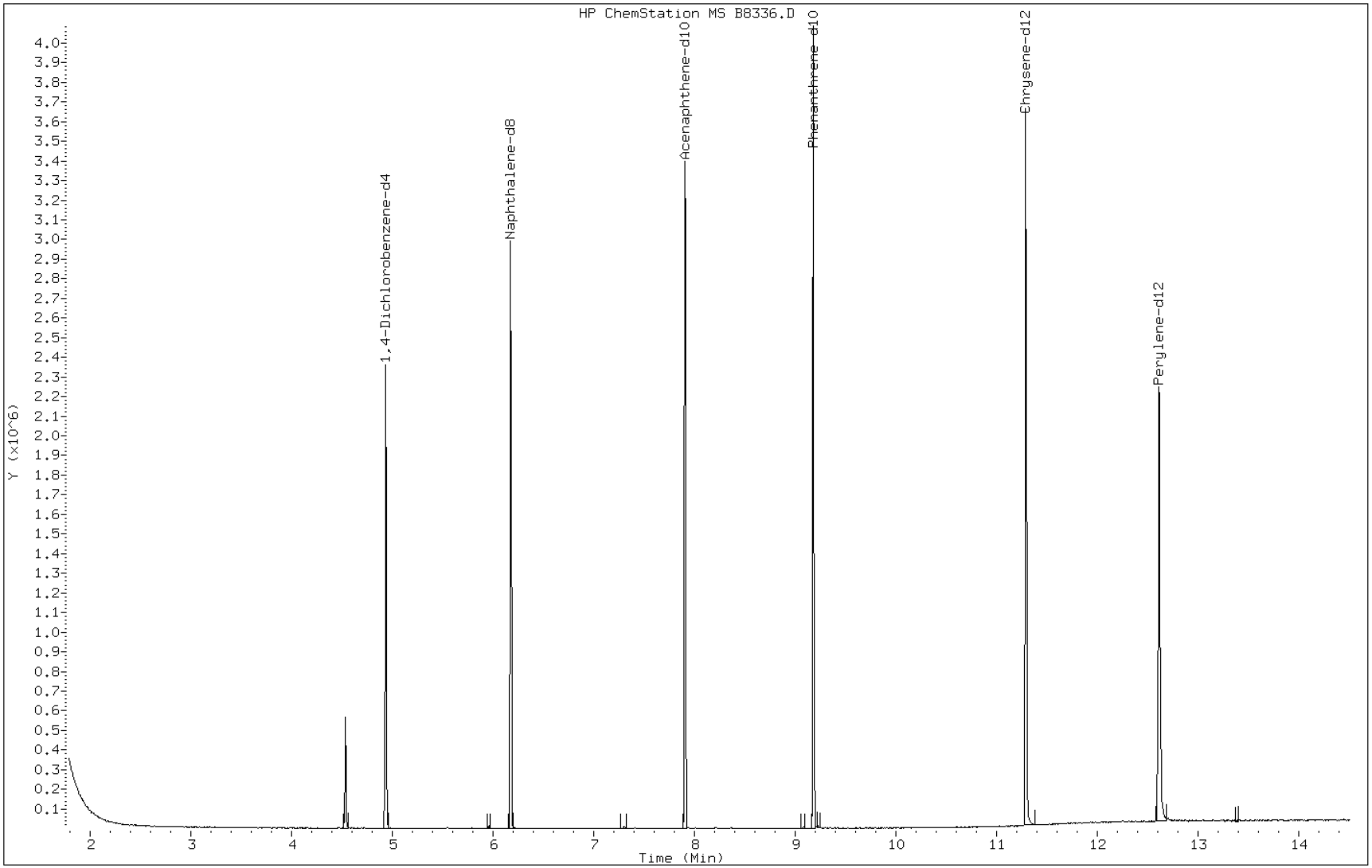
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.936	4.936	(1.000)	318796	40.0000	
* 58 Naphthalene-d8	136	6.176	6.176	(1.000)	1251824	40.0000	
* 96 Acenaphthene-d10	164	7.903	7.903	(1.000)	709225	40.0000	
* 135 Phenanthrene-d10	188	9.178	9.178	(1.000)	1201239	40.0000	
* 166 Chrysene-d12	240	11.287	11.287	(1.000)	1251831	40.0000	
* 179 Perylene-d12	264	12.615	12.615	(1.000)	1118457	40.0000	
14 Benzaldehyde	106	4.536	4.536	(0.919)	95102	10.0000	10.3943

Data File: B8336.D

Date: 05-DEC-2011 14:41

Client ID: MS-BZHD010_00008 Instrument: B.i

Sample Info: STD010-1002536,,MS-BZHD010_00008 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\B8337.D
Lab Smp Id: STD020-1002537 Client Smp ID: MS-BZHD020_00008
Inj Date : 05-DEC-2011 15:00
Operator : KIEKELD Inst ID: B.i
Smp Info : STD020-1002537,,MS-BZHD020_00008
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\8270C.m
Meth Date : 08-Dec-2011 14:32 B.i Quant Type: ISTD
Cal Date : 05-DEC-2011 14:41 Cal File: B8336.D
Als bottle: 12 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzaldehyde.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

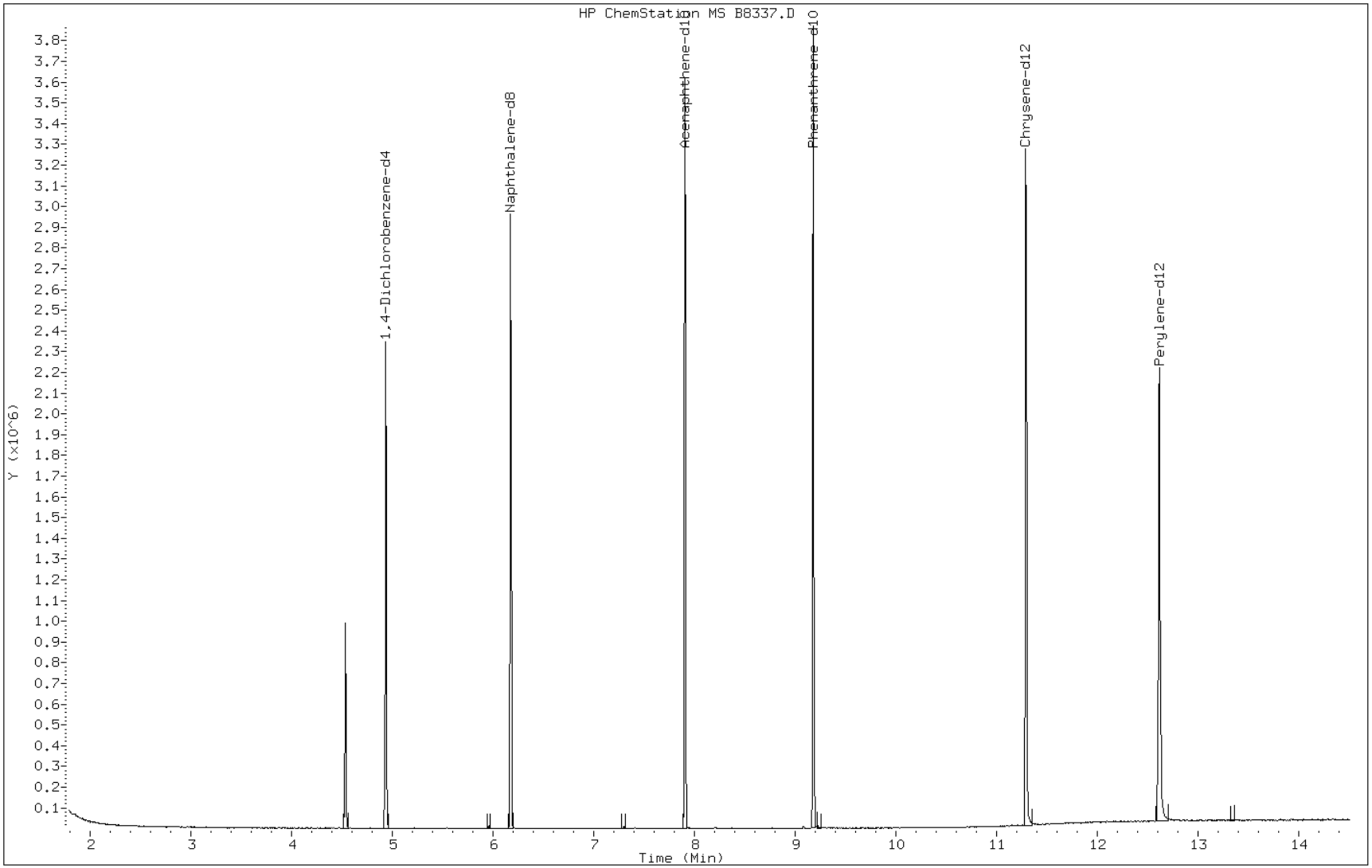
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.935	4.935	(1.000)	309958	40.0000	
* 58 Naphthalene-d8	136	6.175	6.175	(1.000)	1214061	40.0000	
* 96 Acenaphthene-d10	164	7.903	7.903	(1.000)	696534	40.0000	
* 135 Phenanthrene-d10	188	9.178	9.178	(1.000)	1177649	40.0000	
* 166 Chrysene-d12	240	11.287	11.287	(1.000)	1215223	40.0000	
* 179 Perylene-d12	264	12.615	12.615	(1.000)	1073113	40.0000	
14 Benzaldehyde	106	4.536	4.536	(0.919)	173520	20.0000	19.5059

Data File: B8337.D

Date: 05-DEC-2011 15:00

Client ID: MS-BZHD020_00008 Instrument: B.i

Sample Info: STD020-1002537,,MS-BZHD020_00008 Operator: KIEKELD



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BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\B8338.D
Lab Smp Id: STD050-1002538 Client Smp ID: MS-BZHD050_00008
Inj Date : 05-DEC-2011 15:20
Operator : KIEKELD Inst ID: B.i
Smp Info : STD050-1002538,,MS-BZHD050_00008
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\8270C.m
Meth Date : 08-Dec-2011 14:32 B.i Quant Type: ISTD
Cal Date : 05-DEC-2011 15:00 Cal File: B8337.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzaldehyde.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

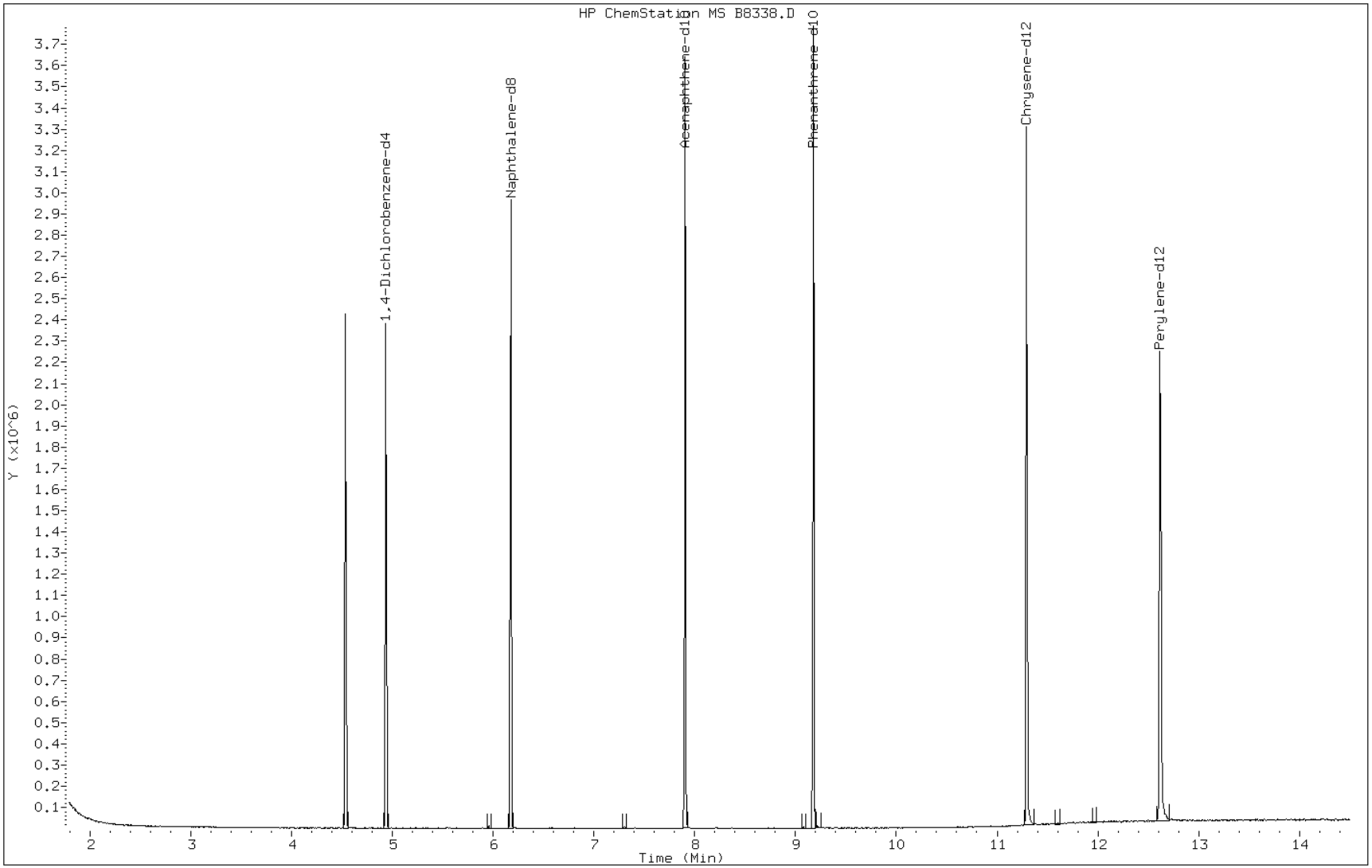
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.937	4.937	(1.000)	307360	40.0000	
* 58 Naphthalene-d8	136	6.177	6.177	(1.000)	1194736	40.0000	
* 96 Acenaphthene-d10	164	7.904	7.904	(1.000)	685298	40.0000	
* 135 Phenanthrene-d10	188	9.179	9.179	(1.000)	1151481	40.0000	
* 166 Chrysene-d12	240	11.294	11.294	(1.000)	1211579	40.0000	
* 179 Perylene-d12	264	12.616	12.616	(1.000)	1061574	40.0000	
14 Benzaldehyde	106	4.537	4.537	(0.919)	445497	50.0000	50.5030

Data File: B8338.D

Date: 05-DEC-2011 15:20

Client ID: MS-BZHD050_00008 Instrument: B.i

Sample Info: STD050-1002538,,MS-BZHD050_00008 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\B8339.D
Lab Smp Id: STD120-1002540 Client Smp ID: MS-BZHD120_00008
Inj Date : 05-DEC-2011 15:39
Operator : KIEKELD Inst ID: B.i
Smp Info : STD120-1002540,,MS-BZHD120_00008
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\8270C.m
Meth Date : 08-Dec-2011 14:32 B.i Quant Type: ISTD
Cal Date : 05-DEC-2011 15:20 Cal File: B8338.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzaldehyde.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

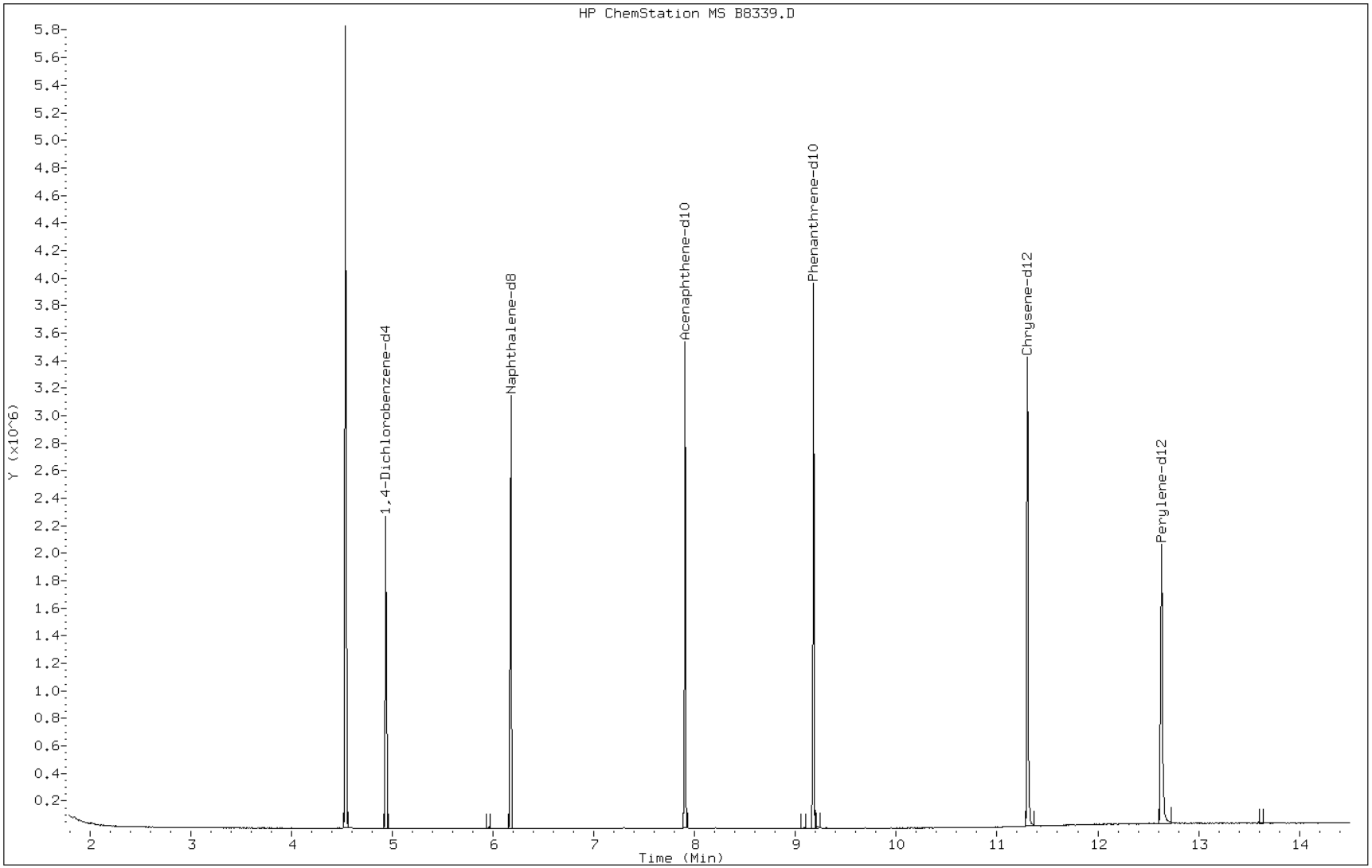
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.938	4.938	(1.000)	311698	40.0000	
* 58 Naphthalene-d8	136	6.177	6.177	(1.000)	1213870	40.0000	
* 96 Acenaphthene-d10	164	7.905	7.905	(1.000)	681177	40.0000	
* 135 Phenanthrene-d10	188	9.180	9.180	(1.000)	1172207	40.0000	
* 166 Chrysene-d12	240	11.301	11.301	(1.000)	1212187	40.0000	
* 179 Perylene-d12	264	12.634	12.634	(1.000)	1057131	40.0000	
14 Benzaldehyde	106	4.538	4.538	(0.919)	1066553	120.000	119.225

Data File: B8339.D

Date: 05-DEC-2011 15:39

Client ID: MS-BZHD120_00008 Instrument: B.i

Sample Info: STD120-1002540,,MS-BZHD120_00008 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\B8340.D
Lab Smp Id: STD160-1002541 Client Smp ID: MS-BZHD160_00008
Inj Date : 05-DEC-2011 15:59
Operator : KIEKELD Inst ID: B.i
Smp Info : STD160-1002541,,MS-BZHD160_00008
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\8270C.m
Meth Date : 08-Dec-2011 14:33 B.i Quant Type: ISTD
Cal Date : 05-DEC-2011 15:39 Cal File: B8339.D
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzaldehyde.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

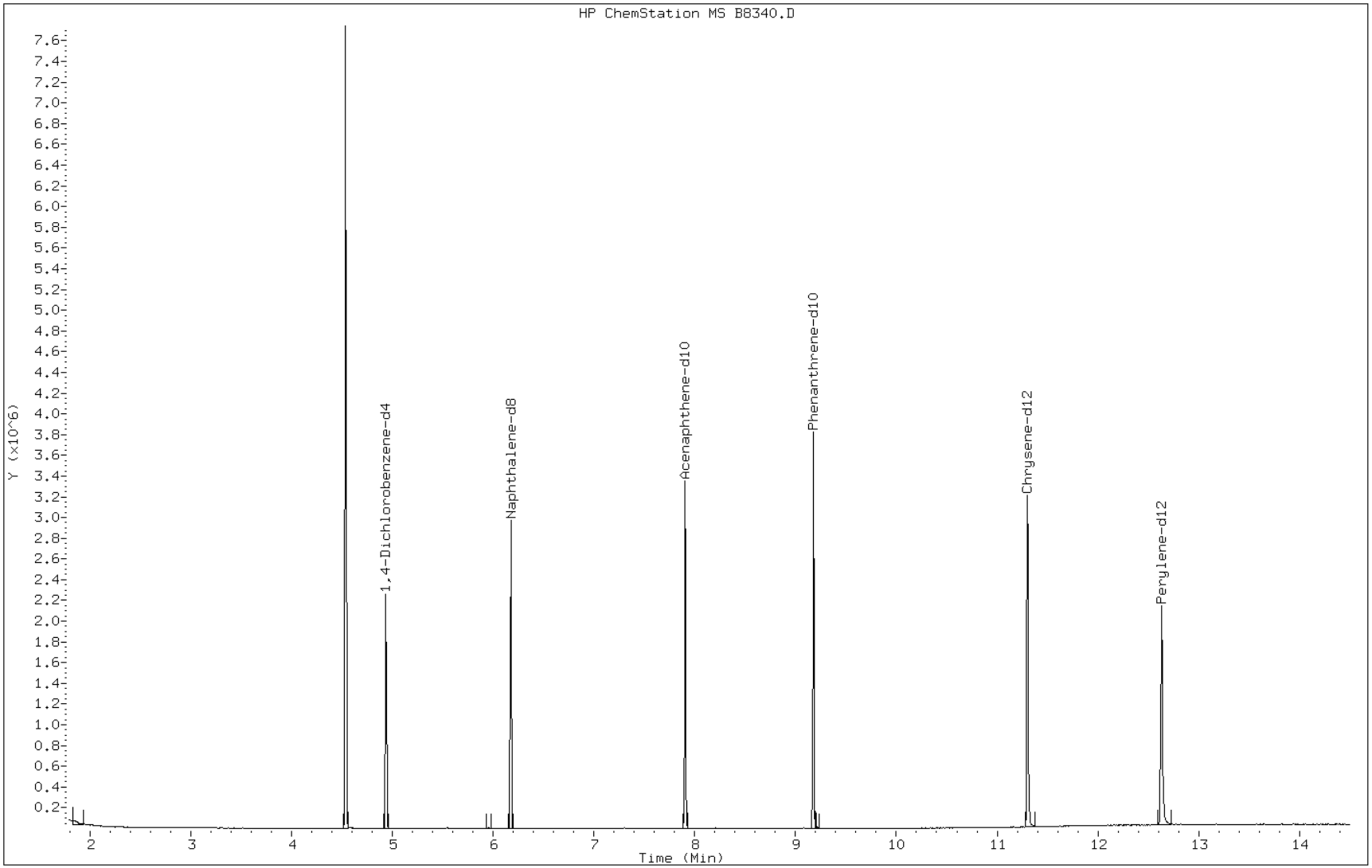
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.936	4.936	(1.000)	304063	40.0000	
* 58 Naphthalene-d8	136	6.176	6.176	(1.000)	1184491	40.0000	
* 96 Acenaphthene-d10	164	7.904	7.904	(1.000)	672152	40.0000	
* 135 Phenanthrene-d10	188	9.178	9.178	(1.000)	1139333	40.0000	
* 166 Chrysene-d12	240	11.300	11.300	(1.000)	1170393	40.0000	
* 179 Perylene-d12	264	12.633	12.633	(1.000)	1034518	40.0000	
14 Benzaldehyde	106	4.537	4.537	(0.919)	1369423	160.000	156.926

Data File: B8340.D

Date: 05-DEC-2011 15:59

Client ID: MS-BZHD160_00008 Instrument: B.i

Sample Info: STD160-1002541,,MS-BZHD160_00008 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\B8341.D
Lab Smp Id: STD200-1002542 Client Smp ID: MS-BZHD200_00008
Inj Date : 05-DEC-2011 16:18
Operator : KIEKELD Inst ID: B.i
Smp Info : STD200-1002542,,MS-BZHD200_00008
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\8270C.m
Meth Date : 08-Dec-2011 14:33 B.i Quant Type: ISTD
Cal Date : 05-DEC-2011 15:59 Cal File: B8340.D
Als bottle: 16 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzaldehyde.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

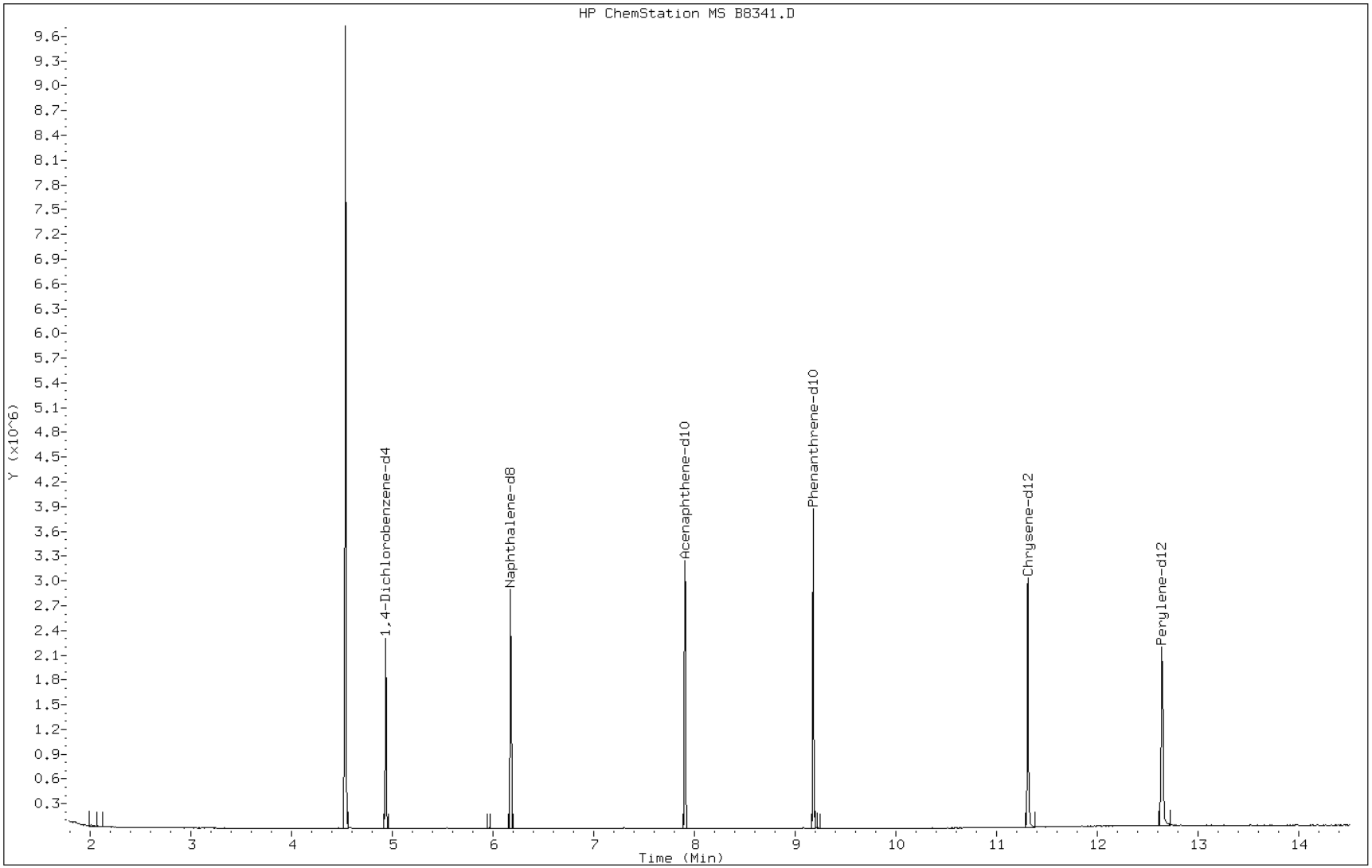
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.936	4.936	(1.000)	305310	40.0000	
* 58 Naphthalene-d8	136	6.176	6.176	(1.000)	1183756	40.0000	
* 96 Acenaphthene-d10	164	7.903	7.903	(1.000)	669823	40.0000	
* 135 Phenanthrene-d10	188	9.178	9.178	(1.000)	1135587	40.0000	
* 166 Chrysene-d12	240	11.311	11.311	(1.000)	1168531	40.0000	
* 179 Perylene-d12	264	12.639	12.639	(1.000)	1033604	40.0000	
14 Benzaldehyde	106	4.536	4.536	(0.919)	1704146	200.000	194.485

Data File: B8341.D

Date: 05-DEC-2011 16:18

Client ID: MS-BZHD200_00008 Instrument: B.i

Sample Info: STD200-1002542,,MS-BZHD200_00008 Operator: KIEKELD



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 99305

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2011 14:38 Calibration End Date: 12/06/2011 16:36 Calibration ID: 8021

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD010 280-99305/3	B8376.D
Level 2	STD020 280-99305/4	B8377.D
Level 3	STD050 280-99305/5	B8378.D
Level 4	ICIS 280-99305/2	B8375.D
Level 5	STD120 280-99305/6	B8379.D
Level 6	STD160 280-99305/7	B8380.D
Level 7	STD200 280-99305/8	B8381.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Picoline	1.4947 1.4722	1.4497 1.4106	1.4591	1.4553	1.4449	Ave		1.4552				1.8		15.0			
N-Nitrosomethylethylamine	0.6362 0.6759	0.6339 0.6506	0.6478	0.6488	0.6531	Ave		0.6495				2.1		15.0			
Methyl methanesulfonate	0.3959 0.4356	0.4014 0.4314	0.4159	0.3988	0.4249	Ave		0.4148				3.9		15.0			
N-Nitrosodiethylamine	0.6604 0.7051	0.6648 0.6746	0.6781	0.6823	0.6832	Ave		0.6783				2.2		15.0			
Ethyl methanesulfonate	1.1167 1.0520	1.0751 1.0078	1.0638	1.0625	1.0415	Ave		1.0599				3.1		15.0			
Pentachloroethane	0.5591 0.5406	0.5384 0.5178	0.5382	0.5444	0.5281	Ave		0.5381				2.4		15.0			
N-Nitrosopyrrolidine	0.6959 0.7181	0.6931 0.6938	0.7225	0.7160	0.7050	Ave		0.7064				1.8		15.0			
N-Nitrosomorpholine	0.3193 0.3090	0.3115 0.2895	0.3042	0.3194	0.2985	Ave		0.3073				3.6		15.0			
2-Toluidine	2.3660 2.1806	2.2815 2.0808	2.2818	2.2699	2.1905	Ave		2.2359				4.1		15.0			
N-Nitrosopiperidine	0.1650 0.1784	0.1714 0.1744	0.1771	0.1826	0.1775	Ave		0.1752				3.2		15.0			
o,o',o''-Triethylphosphorothioate	0.1777 0.1794	0.1781 0.1746	0.1804	0.1830	0.1800	Ave		0.1790				1.5		15.0			
alpha,alpha-Dimethyl phenethylamine	0.7058 0.7750	0.7412 0.7632	0.7670	0.7859	0.7808	Ave		0.7598				3.7		15.0			
2,6-Dichlorophenol	0.2734 0.2955	0.2854 0.2823	0.2933	0.3015	0.2957	Ave		0.2896				3.3		15.0			
Hexachloropropene	0.2137 0.2426	0.2187 0.2339	0.2348	0.2415	0.2373	Ave		0.2318				4.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 99305

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2011 14:38 Calibration End Date: 12/06/2011 16:36 Calibration ID: 8021

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodi-n-butylamine	0.2044 0.2283	0.2162 0.2228	0.2215	0.2292	0.2272	Ave		0.2214				4.0		15.0			
p-Phenylene diamine	0.4574 0.4661	0.4867 0.4367	0.4950	0.5056	0.4799	Ave		0.4753				5.0		15.0			
Safrole, Total	0.2758 0.2774	0.2775 0.2679	0.2834	0.2899	0.2800	Ave		0.2788				2.4		15.0			
1,2,4,5-Tetrachlorobenzene	0.3492 0.3338	0.3487 0.3219	0.3418	0.3475	0.3327	Ave		0.3394				3.0		15.0			
1,1'-Biphenyl	1.5868 1.4006	1.5489 1.3199	1.4905	1.4934	1.4368	Ave		1.4681				6.2		15.0			
1,4-Naphthoquinone	0.2490 0.3526	0.3133 0.3259	0.3615	0.3791	0.3741	Ave		0.3365				13.5		15.0			
1,4-Dinitrobenzene	0.1287 0.2009	0.1512 0.1966	0.1790	0.1853	0.1994	Lin2	0.0960	0.1996							0.9983		0.9900
1,3-Dinitrobenzene	0.1728 0.2226	0.1929 0.2172	0.2120	0.2187	0.2231	Ave		0.2085				9.0		15.0			
Pentachlorobenzene	0.5010 0.5038	0.5033 0.4837	0.4953	0.5042	0.4982	Ave		0.4985				1.5		15.0			
1-Naphthylamine	1.2853 1.2168	1.2904 1.1418	1.2679	1.2890	1.2520	Ave		1.2490				4.3		15.0			
2,3,4,6-Tetrachlorophenol	0.2697 0.3243	0.3038 0.3232	0.3264	0.3175	0.3279	Ave		0.3132				6.7		15.0			
2-Naphthylamine	1.3404 1.2490	1.3468 1.1706	1.3082	1.3197	1.2793	Ave		1.2877				4.8		15.0			
Thionazin	0.2570 0.2772	0.2660 0.2694	0.2826	0.2896	0.2829	Ave		0.2750				4.1		15.0			
N-Nitro-o-toluidine	0.3265 0.4005	0.3561 0.3877	0.3799	0.3939	0.4012	Ave		0.3780				7.3		15.0			
Diphenylamine	1.1514 1.0729	1.1593 1.0171	1.1390	1.1325	1.0976	Ave		1.1100				4.6		15.0			
Sulfotepp	0.1144 0.1164	0.1219 0.1081	0.1211	0.1222	0.1168	Ave		0.1173				4.3		15.0			
Diallate Peak 1	0.3252 0.3316	0.3413 0.3148	0.3485	0.3443	0.3329	Ave		0.3341				3.5					
1,3,5-Trinitrobenzene	0.0352 0.0817	0.0469 0.0814	0.0665	0.0736	0.0795	Lin2	0.1575	0.0815							0.9941		0.9900
Phorate	0.1380 0.1394	0.1417 0.1322	0.1451	0.1450	0.1430	Ave		0.1406				3.3		15.0			
Phenacetin	0.2952 0.3835	0.3262 0.3396	0.3599	0.3701	0.3520	Ave		0.3467				8.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 99305

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2011 14:38 Calibration End Date: 12/06/2011 16:36 Calibration ID: 8021

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Diallate Peak 2	0.1678 0.1877	0.1686 0.1817	0.1800	0.1826	0.1841	Ave		0.1789				4.3					
Dimethoate	0.2242 0.2126	0.2420 0.1963	0.2406	0.2459	0.2245	Ave		0.2266				7.9		15.0			
4-Aminobiphenyl	0.8388 0.7691	0.8475 0.7084	0.8595	0.8407	0.7962	Ave		0.8086				6.7		15.0			
Pronamide	0.2999 0.2941	0.3134 0.2726	0.3204	0.3159	0.3004	Ave		0.3024				5.4		15.0			
Pentachloronitrobenzene	0.0938 0.0922	0.0965 0.0874	0.0968	0.0972	0.0947	Ave		0.0941				3.7		15.0			
Disulfoton	0.3375 0.3447	0.3537 0.3225	0.3658	0.3636	0.3496	Ave		0.3482				4.3		15.0			
Methyl parathion	+++++ 0.2111	0.2095 0.1939	0.2319	0.2315	0.2183	Ave		0.2161				6.7		15.0			
Ethyl Parathion	+++++ 0.1482	0.1164 0.1380	0.1437	0.1458	0.1471	Ave		0.1399				8.6		15.0			
4-Nitroquinoline-1-oxide	+++++ 0.1277	0.0778 0.1207	0.1098	0.1214	0.1270	Lin2	0.2060	0.1328							0.9986		0.9900
Methapyrilene	0.2879 0.2429	0.2969 0.2274	0.2825	0.2903	0.2534	Ave		0.2688				10.1		15.0			
Isodrin	0.1253 0.1268	0.1270 0.1193	0.1286	0.1295	0.1266	Ave		0.1262				2.6		15.0			
Aramite Peak 1	+++++ 0.0982	0.0784 0.0929	0.0913	0.0976	0.0952	Ave		0.0923				7.9					
Aramite Peak 2	+++++ 0.1646	0.1499 0.1568	0.1620	0.1665	0.1622	Ave		0.1603				3.8					
p-Dimethylamino azobenzene	+++++ 0.2976	0.3001 0.2797	0.3225	0.3172	0.3080	Ave		0.3042				5.0		15.0			
Ethyl 4,4'-Dichlorobenzilate	0.2672 0.3224	0.2846 0.3105	0.3108	0.3164	0.3184	Ave		0.3043				6.7		15.0			
3,3'-Dimethylbenzidine	+++++ 0.6588	0.6264 0.6204	0.6610	0.6873	0.6671	Ave		0.6535				3.9		15.0			
2-Acetylaminofluorene	+++++ 0.4467	0.3209 0.4308	0.4056	0.4357	0.4395	Ave		0.4132				11.5		15.0			
7,12-Dimethylbenz(a)anthracene	+++++ 0.6107	0.5371 0.5899	0.5704	0.5917	0.5953	Ave		0.5825				4.4		15.0			
3-Methylcholanthrene	+++++ 0.6303	0.5138 0.6106	0.5731	0.6039	0.6111	Ave		0.5905				7.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 99305

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2011 14:38 Calibration End Date: 12/06/2011 16:36 Calibration ID: 8021

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD010 280-99305/3	B8376.D
Level 2	STD020 280-99305/4	B8377.D
Level 3	STD050 280-99305/5	B8378.D
Level 4	ICIS 280-99305/2	B8375.D
Level 5	STD120 280-99305/6	B8379.D
Level 6	STD160 280-99305/7	B8380.D
Level 7	STD200 280-99305/8	B8381.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Picoline	DCB	Ave	102967 1638226	203610 1969856	510995	834402	1247444	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosomethylethylamine	DCB	Ave	43828 752143	89025 908495	226864	372014	563810	10.0 160	20.0 200	50.0	80.0	120
Methyl methanesulfonate	DCB	Ave	27274 484770	56373 602403	145652	228627	366803	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosodiethylamine	DCB	Ave	45491 784648	93366 942006	237477	391185	589826	10.0 160	20.0 200	50.0	80.0	120
Ethyl methanesulfonate	DCB	Ave	76929 1170623	150990 1407411	372562	609154	899185	10.0 160	20.0 200	50.0	80.0	120
Pentachloroethane	DCB	Ave	38514 601604	75619 723112	188485	312122	455949	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosopyrrolidine	DCB	Ave	47942 799079	97349 968846	253034	410505	608686	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosomorpholine	DCB	Ave	21993 343906	43750 404213	106528	183124	257745	10.0 160	20.0 200	50.0	80.0	120
2-Toluidine	DCB	Ave	162986 2426570	320436 2905785	799084	1301428	1891156	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosopiperidine	NPT	Ave	45339 785484	94329 958416	246365	405053	597941	10.0 160	20.0 200	50.0	80.0	120
o,o',o''-Triethylphosphorothioate	NPT	Ave	48843 789978	97984 959332	250893	405939	606409	10.0 160	20.0 200	50.0	80.0	120
alpha,alpha-Dimethyl phenethylamine	NPT	Ave	193987 3412231	407865 4193937	1066933	1743559	2630488	10.0 160	20.0 200	50.0	80.0	120
2,6-Dichlorophenol	NPT	Ave	75140 1301173	157034 1551544	407947	668927	996262	10.0 160	20.0 200	50.0	80.0	120
Hexachloropropene	NPT	Ave	58739 1068250	120337 1285241	326568	535670	799382	10.0 160	20.0 200	50.0	80.0	120
N-Nitrosodi-n-butylamine	NPT	Ave	56163 1005410	118996 1224269	308093	508588	765506	10.0 160	20.0 200	50.0	80.0	120

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 99305

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2011 14:38 Calibration End Date: 12/06/2011 16:36 Calibration ID: 8021

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
p-Phenylene diamine	NPT	Ave	125715 2052110	267818 2399917	688561	1121656	1616887	10.0 160	20.0 200	50.0	80.0	120
Safrole, Total	NPT	Ave	75806 1221186	152698 1472144	394155	643136	943344	10.0 160	20.0 200	50.0	80.0	120
1,2,4,5-Tetrachlorobenzene	NPT	Ave	95966 1469684	191877 1769244	475504	770976	1120847	10.0 160	20.0 200	50.0	80.0	120
1,1'-Biphenyl	ANT	Ave	252724 3626980	500435 4266552	1224255	1963120	2819342	10.0 160	20.0 200	50.0	80.0	120
1,4-Naphthoquinone	ANT	Ave	39665 913086	101239 1053637	296944	498359	734160	10.0 160	20.0 200	50.0	80.0	120
1,4-Dinitrobenzene	ANT	Lin2	20495 520153	48863 635636	147036	243590	391228	10.0 160	20.0 200	50.0	80.0	120
1,3-Dinitrobenzene	ANT	Ave	27523 576385	62324 702079	174157	287554	437764	10.0 160	20.0 200	50.0	80.0	120
Pentachlorobenzene	ANT	Ave	79785 1304779	162617 1563651	406828	662851	977550	10.0 160	20.0 200	50.0	80.0	120
1-Naphthylamine	ANT	Ave	204704 3151243	416918 3690979	1041410	1694529	2456644	10.0 160	20.0 200	50.0	80.0	120
2,3,4,6-Tetrachlorophenol	ANT	Ave	42955 839836	98144 1044667	268103	417344	643386	10.0 160	20.0 200	50.0	80.0	120
2-Naphthylamine	ANT	Ave	213481 3234414	435133 3784066	1074478	1734825	2510358	10.0 160	20.0 200	50.0	80.0	120
Thionazin	ANT	Ave	40924 717919	85955 870907	232152	380754	555154	10.0 160	20.0 200	50.0	80.0	120
N-Nitro-o-toluidine	ANT	Ave	51999 1037171	115048 1253160	312049	517861	787245	10.0 160	20.0 200	50.0	80.0	120
Diphenylamine	ANT	Ave	183372 2778421	374566 3287716	935546	1488761	2153692	10.0 160	20.0 200	50.0	80.0	120
Sulfotepp	PHN	Ave	31267 511521	67628 599114	167788	274413	393948	10.0 160	20.0 200	50.0	80.0	120
Diallate Peak 1	PHN	Ave	64011 1049601	136359 1256068	347700	558602	808634	7.20 115	14.4 144	36.0	57.8	86.4
1,3,5-Trinitrobenzene	PHN	Lin2	9629 359279	26011 451024	92074	165284	268323	10.0 160	20.0 200	50.0	80.0	120
Phorate	PHN	Ave	37738 612973	78626 732328	201075	325495	482332	10.0 160	20.0 200	50.0	80.0	120
Phenacetin	PHN	Ave	80704 1686151	181037 1881977	498596	831051	1187790	10.0 160	20.0 200	50.0	80.0	120
Diallate Peak 2	PHN	Ave	12848 231006	26192 281841	69829	115814	173955	2.80 44.8	5.60 56.0	14.0	22.6	33.6
Dimethoate	PHN	Ave	61288 934698	134295 1087498	333355	552228	757476	10.0 160	20.0 200	50.0	80.0	120

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 99305

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/06/2011 14:38 Calibration End Date: 12/06/2011 16:36 Calibration ID: 8021

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
4-Aminobiphenyl	PHN	Ave	229352 3381127	470274 3925130	1190885	1887642	2686520	10.0 160	20.0 200	50.0	80.0	120
Pronamide	PHN	Ave	82000 1293020	173895 1510695	443977	709311	1013441	10.0 160	20.0 200	50.0	80.0	120
Pentachloronitrobenzene	PHN	Ave	25659 405231	53524 484419	134158	218207	319599	10.0 160	20.0 200	50.0	80.0	120
Disulfoton	PHN	Ave	92266 1515489	196284 1787086	506787	816443	1179449	10.0 160	20.0 200	50.0	80.0	120
Methyl parathion	PHN	Ave	+++++ 928229	116276 1074321	321280	519863	736657	+++++ 160	20.0 200	50.0	80.0	120
Ethyl Parathion	PHN	Ave	+++++ 651355	64578 764660	199157	327401	496424	+++++ 160	20.0 200	50.0	80.0	120
4-Nitroquinoline-1-oxide	PHN	Lin2	+++++ 561591	43172 668568	152078	272623	428461	+++++ 160	20.0 200	50.0	80.0	120
Methapyrilene	PHN	Ave	78711 1067913	164730 1260025	391431	651877	855112	10.0 160	20.0 200	50.0	80.0	120
Isodrin	PHN	Ave	34253 557454	70497 660984	178114	290878	427022	10.0 160	20.0 200	50.0	80.0	120
Aramite Peak 1	CRY	Ave	+++++ 209715	21135 246900	61321	103488	155056	+++++ 73.6	9.20 91.0	23.0	36.0	55.2
Aramite Peak 2	CRY	Ave	+++++ 412688	47429 498993	127695	211792	310357	+++++ 86.4	10.8 109	27.0	43.2	64.8
p-Dimethylamino azobenzene	CRY	Ave	+++++ 1381155	175873 1633711	470712	747158	1090873	+++++ 160	20.0 200	50.0	80.0	120
Ethyl 4,4'-Dichlorobenzilate	CRY	Ave	77649 1496695	166806 1813670	453644	745302	1128015	10.0 160	20.0 200	50.0	80.0	120
3,3'-Dimethylbenzidine	CRY	Ave	+++++ 3058066	367107 3623503	964824	1619138	2363098	+++++ 160	20.0 200	50.0	80.0	120
2-Acetylaminofluorene	CRY	Ave	+++++ 2073273	188042 2515888	592079	1026474	1556753	+++++ 160	20.0 200	50.0	80.0	120
7,12-Dimethylbenz(a)anthracene	PRY	Ave	+++++ 2494331	279590 3039822	747457	1249434	1884561	+++++ 160	20.0 200	50.0	80.0	120
3-Methylcholanthrene	PRY	Ave	+++++ 2574733	267446 3146628	751006	1275227	1934659	+++++ 160	20.0 200	50.0	80.0	120

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\B8375.D
Lab Smp Id: ICIS-1149042 Client Smp ID: MS-AP9080_00016
Inj Date : 06-DEC-2011 14:38
Operator : KIEKELD Inst ID: B.i
Smp Info : ICIS-1149042,,MS-AP9080_00016
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\8270C.m
Meth Date : 08-Dec-2011 16:38 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 16:36 Cal File: B8381.D
Als bottle: 21 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.936	4.936	(1.000)	286672	40.0000	
* 58 Naphthalene-d8	136	6.175	6.175	(1.000)	1109246	40.0000	
* 96 Acenaphthene-d10	164	7.903	7.903	(1.000)	657286	40.0000	
* 135 Phenanthrene-d10	188	9.178	9.178	(1.000)	1122687	40.0000	
* 166 Chrysene-d12	240	11.275	11.275	(1.000)	1177919	40.0000	
* 179 Perylene-d12	264	12.597	12.597	(1.000)	1055809	40.0000	
9 2-Picoline	93	3.238	3.238	(0.656)	834402	80.0000	80.0058
10 N-Nitrosomethylethylamine	88	3.326	3.326	(0.674)	372014	80.0000	79.9241
11 Methyl methanesulfonate	80	3.584	3.584	(0.726)	228627	80.0000	76.9004
12 N-Nitrosodiethylamine	102	3.943	3.943	(0.799)	391185	80.0000	80.4652
13 Ethyl methanesulfonate	79	4.201	4.201	(0.851)	609154	80.0000	80.1920
24 Pentachloroethane	117	4.677	4.677	(0.948)	312122	80.0000	80.9359
39 N-Nitrosopyrrolidine	100	5.306	5.306	(1.075)	410505	80.0000	81.0905
40 N-Nitrosomorpholine	116	5.335	5.335	(1.081)	183124	80.0000	83.1380
42 o-Toluidine	106	5.347	5.347	(1.083)	1301428	80.0000	81.2174
46 N-Nitrosopiperidine	114	5.641	5.641	(0.913)	405053	80.0000	83.3730
51 O,O,O-Triethyl phosphorothio	198	5.852	5.852	(0.948)	405939	80.0000	81.7720
55 a,a-Dimethylphenethylamine	58	5.982	5.982	(0.969)	1743559	80.0000	82.7461(M)
61 2,6-Dichlorophenol	162	6.252	6.252	(1.012)	668927	80.0000	83.2969
63 Hexachloropropene	213	6.275	6.275	(1.016)	535670	80.0000	83.3434
64 N-Nitrosodi-n-butylamine	84	6.546	6.546	(1.060)	508588	80.0000	82.8431
66 p-Phenylenediamine	108	6.599	6.599	(1.068)	1121656	80.0000	85.0911

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
	70 Safrole	162	6.775	6.775	(1.097)	643136	80.0000	83.1758
	75 1,2,4,5-Tetrachlorobenzene	216	7.051	7.051	(1.142)	770976	80.0000	81.9198
	76 Isosafrole (#1)	162	7.069	7.069	(0.894)	116204	14.0000	14.4222
	84 Isosafrole (#2)	104	7.298	7.298	(0.923)	301244	66.0000	68.2185
	85 Biphenyl	154	7.345	7.345	(0.929)	1963120	80.0000	81.3756
	87 1-Chloronaphthalene	162	7.403	7.403	(0.937)	1460107	80.0000	80.9724
	89 1,4-Naphthoquinone	158	7.550	7.550	(0.955)	498359	80.0000	90.1213
	90 1,4-Dinitrobenzene	168	7.609	7.609	(0.963)	243590	80.0000	78.1016
	92 1,3-Dinitrobenzene	168	7.680	7.680	(0.972)	287554	80.0000	83.9396
	100 Pentachlorobenzene	250	8.050	8.050	(1.019)	662851	80.0000	80.9191
	103 1-Naphthylamine	143	8.167	8.167	(1.033)	1694529	80.0000	82.5620
	104 2,3,4,6-Tetrachlorophenol	232	8.191	8.191	(1.036)	417344	80.0000	81.0806
	106 2-Naphthylamine	143	8.238	8.238	(1.042)	1734825	80.0000	81.9871
	108 Thionazin	97	8.320	8.320	(1.053)	380754	80.0000	84.2666
	111 5-Nitro-o-toluidine	152	8.402	8.402	(1.063)	517861	80.0000	83.3798
	114 Diphenylamine	169	8.473	8.473	(1.072)	1488761	80.0000	81.6253
	117 Sulfotepp	97	8.561	8.561	(0.933)	274413	80.0000	83.3831
	119 Diallate (#1)	86	8.690	8.690	(0.947)	558602	57.8000	59.5716
	120 1,3,5-Trinitrobenzene	213	8.696	8.696	(0.948)	165284	80.0000	78.5604
	121 Phorate	121	8.702	8.702	(0.948)	325495	80.0000	82.4693
	122 Phenacetin	108	8.725	8.725	(0.951)	831051	80.0000	85.4132
	123 Diallate (#2)	86	8.772	8.772	(0.956)	115814	22.6000	23.0625
	126 Dimethoate	87	8.866	8.866	(0.966)	552228	80.0000	86.8343
	130 4-Aminobiphenyl	169	9.013	9.013	(0.982)	1887642	80.0000	83.1736
	131 Pentachloronitrobenzene	237	9.025	9.025	(0.983)	218207	80.0000	82.6273
	132 Pronamide	173	9.019	9.019	(0.983)	709311	80.0000	83.5732
	133 Disulfoton	88	9.125	9.125	(0.994)	816443	80.0000	83.5417
	134 2-secbutyl-4,6-dinitropheno	211	9.131	9.131	(0.995)	391396	80.0000	79.6871
	142 Methyl parathion	109	9.436	9.436	(1.028)	519863	80.0000	85.7300
	145 Parathion	109	9.724	9.724	(1.060)	327401	80.0000	83.3980
	146 4-Nitroquinoline-1-oxide	190	9.818	9.818	(1.070)	272623	80.0000	81.4070
	147 Methapyrilene	97	9.818	9.818	(1.070)	651877	80.0000	86.4173
	148 Isodrin	193	10.012	10.012	(1.091)	290878	80.0000	82.1512
	153 Aramite (#1)	185	10.329	10.329	(0.916)	103488	36.0000	38.0860
	155 Aramite (#2)	185	10.388	10.388	(0.921)	211792	43.2000	44.8561
	156 p-Dimethylaminoazobenzene	120	10.500	10.500	(0.931)	747158	80.0000	83.4168
	157 Chlorobenzilate	251	10.517	10.517	(0.933)	745302	80.0000	83.1589
	160 3,3'-Dimethylbenzidine	212	10.776	10.776	(0.956)	1619138	80.0000	84.1354
	161 2-Acetylaminofluorene	181	10.987	10.987	(0.974)	1026474	80.0000	84.3621
M	173 Total Isosafrole	162				417448	80.0000	82.6407
M	174 Total Diallate	86				674416	80.0000	82.6342
M	175 Total Aramite	185				315280	80.0000	82.9420
	176 7,12-Dimethylbenz(a)anthrac	256	12.168	12.168	(0.966)	1249434	80.0000	81.2612
	181 3-Methylcholanthrene	268	12.885	12.885	(1.023)	1275227	80.0000	81.8191
	184 Dibenz(a,j)acridine	279	13.637	13.637	(1.083)	1913274	80.0000	83.9977

QC Flag Legend

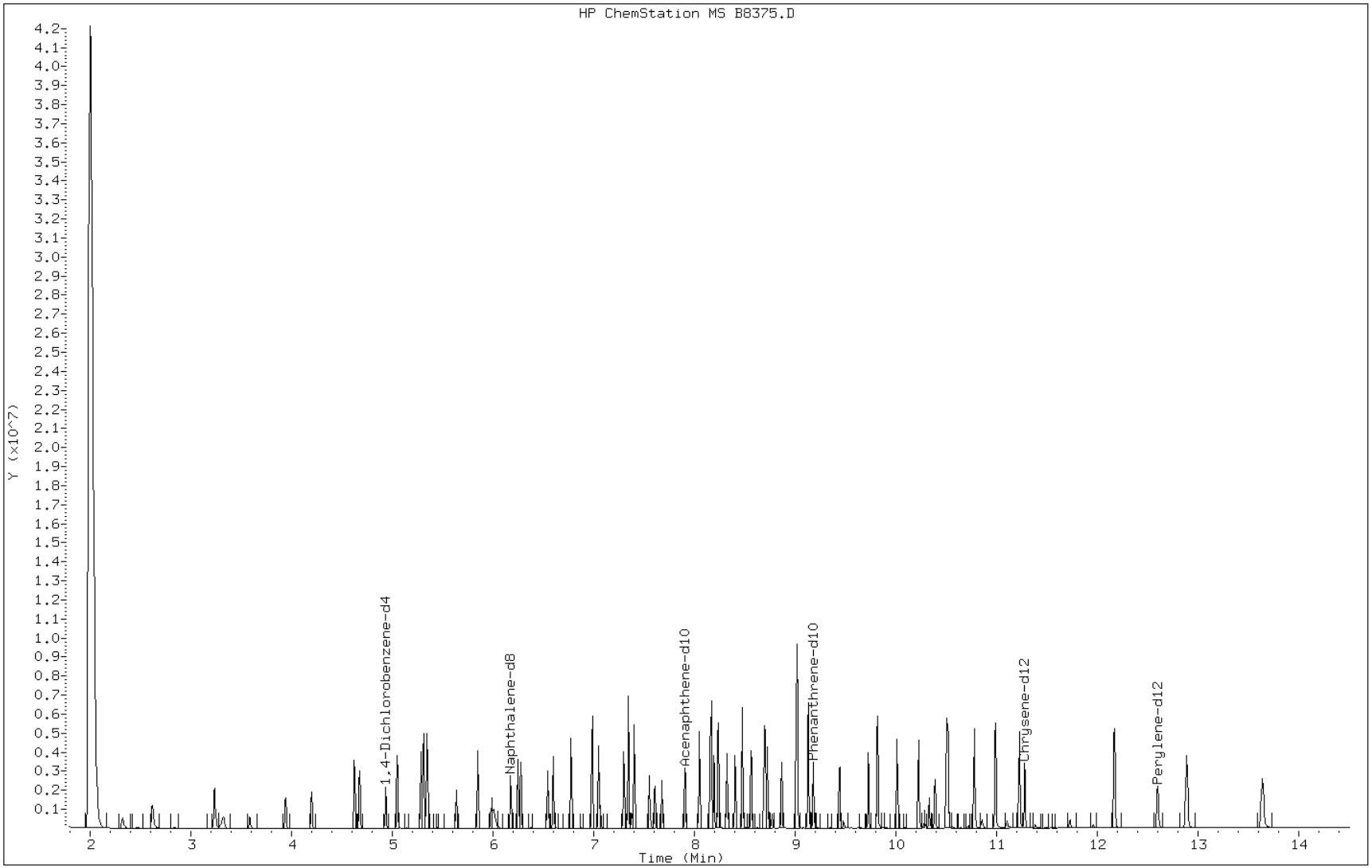
M - Compound response manually integrated.

Data File: B8375.D

Date: 06-DEC-2011 14:38

Client ID: MS-AP9080_00016 Instrument: B.i

Sample Info: ICIS-1149042,,MS-AP9080_00016 Operator: KIEKELD



Manual Integration Report

Data File: B8375.D
Inj. Date and Time: 06-DEC-2011 14:38
Instrument ID: B.i
Client ID: MS-AP9080_00016
Compound: 55 a,a-Dimethylphenethylamine
CAS #: 122-09-8
Report Date: 12/08/2011

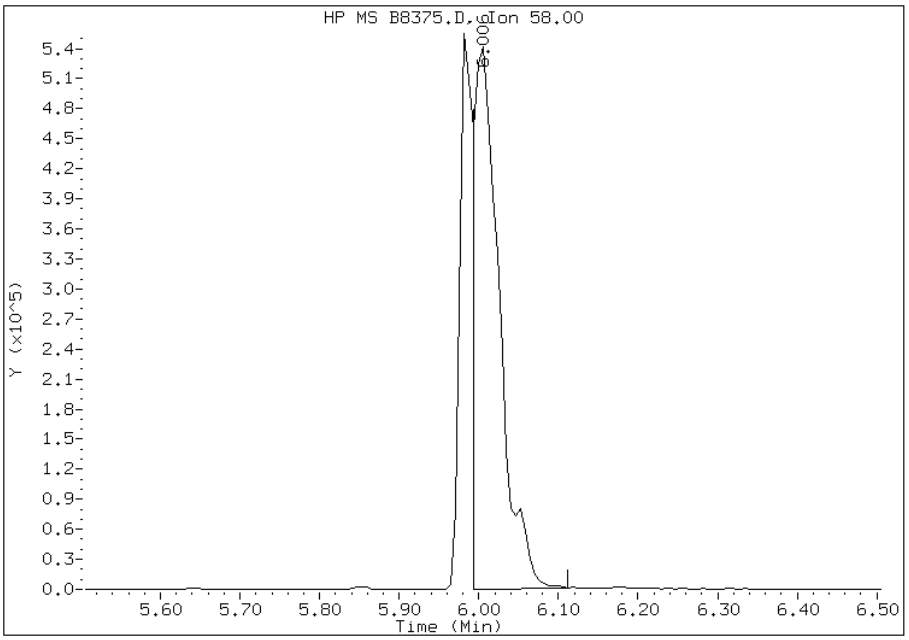
Processing Integration Results

RT: 6.01

Response: 1217277

Amount: 0

Conc: 0



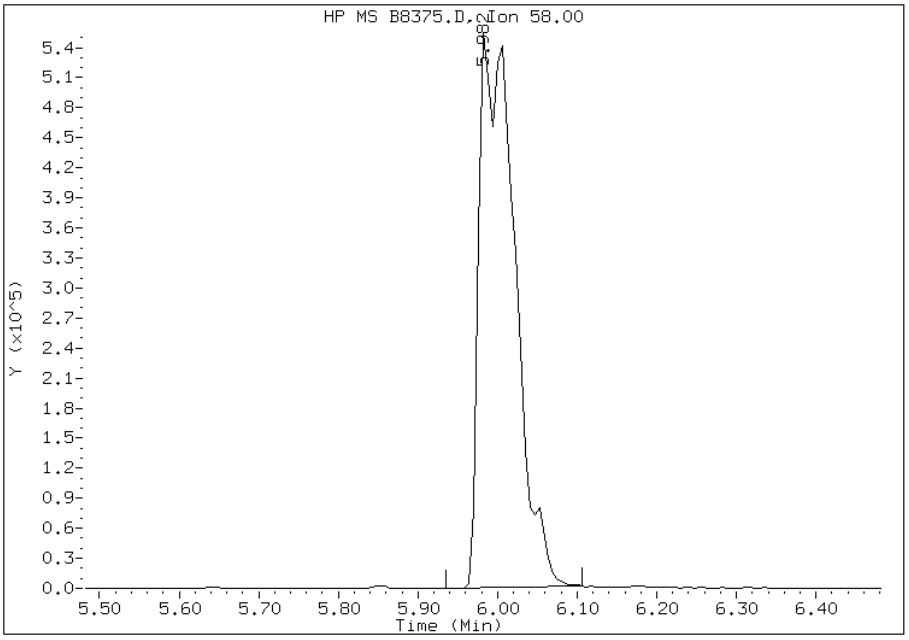
Manual Integration Results

RT: 5.98

Response: 1743559

Amount: 83

Conc: 83



Manually Integrated By: kiekeld
Modification Date: 08-Dec-2011 15:52
Manual Integration Reason: Split Peak

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\B8376.D
Lab Smp Id: STD010-1149039 Client Smp ID: MS-AP9010_00016
Inj Date : 06-DEC-2011 14:58
Operator : KIEKELD Inst ID: B.i
Smp Info : STD010-1149039,,MS-AP9010_00016
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\8270C.m
Meth Date : 08-Dec-2011 16:38 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 14:38 Cal File: B8375.D
Als bottle: 22 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.937	4.937	(1.000)	275550	40.0000	
* 58 Naphthalene-d8	136	6.176	6.176	(1.000)	1099346	40.0000	
* 96 Acenaphthene-d10	164	7.904	7.904	(1.000)	637063	40.0000	
* 135 Phenanthrene-d10	188	9.179	9.179	(1.000)	1093676	40.0000	
* 166 Chrysene-d12	240	11.288	11.288	(1.000)	1162313	40.0000	
* 179 Perylene-d12	264	12.610	12.610	(1.000)	1017790	40.0000	
9 2-Picoline	93	3.239	3.239	(0.656)	102967	10.0000	10.2714
10 N-Nitrosomethylethylamine	88	3.327	3.327	(0.674)	43828	10.0000	9.79614(a)
11 Methyl methanesulfonate	80	3.585	3.585	(0.726)	27274	10.0000	9.54409(a)
12 N-Nitrosodiethylamine	102	3.944	3.944	(0.799)	45491	10.0000	9.73501(a)
13 Ethyl methanesulfonate	79	4.202	4.202	(0.851)	76929	10.0000	10.5361
24 Pentachloroethane	117	4.678	4.678	(0.948)	38514	10.0000	10.3901
39 N-Nitrosopyrrolidine	100	5.301	5.301	(1.074)	47942	10.0000	9.85264(a)
40 N-Nitrosomorpholine	116	5.336	5.336	(1.081)	21993	10.0000	10.3878
42 o-Toluidine	106	5.348	5.348	(1.083)	162986	10.0000	10.5819
46 N-Nitrosopiperidine	114	5.636	5.636	(0.912)	45339	10.0000	9.41628(a)
51 O,O,O-Triethyl phosphorothio	198	5.853	5.853	(0.948)	48843	10.0000	9.92749(a)
55 a,a-Dimethylphenethylamine	58	5.982	5.982	(0.969)	193987	10.0000	9.28917(a)
61 2,6-Dichlorophenol	162	6.247	6.247	(1.011)	75140	10.0000	9.44093(a)
63 Hexachloropropene	213	6.276	6.276	(1.016)	58739	10.0000	9.22134(a)
64 N-Nitrosodi-n-butylamine	84	6.541	6.541	(1.059)	56163	10.0000	9.23069(a)
66 p-Phenylenediamine	108	6.599	6.599	(1.068)	125715	10.0000	9.62288(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
70	Safrole	162	6.776	6.776	(1.097)	75806	10.0000	9.89216(a)
75	1,2,4,5-Tetrachlorobenzene	216	7.046	7.046	(1.141)	95966	10.0000	10.2887
76	Isosafrole (#1)	162	7.069	7.069	(0.894)	12259	1.75000	1.56977(a)
84	Isosafrole (#2)	104	7.298	7.298	(0.923)	33781	8.25000	7.89275(a)
85	Biphenyl	154	7.345	7.345	(0.929)	252724	10.0000	10.8085
87	1-Chloronaphthalene	162	7.398	7.398	(0.936)	183062	10.0000	10.4742
89	1,4-Naphthoquinone	158	7.551	7.551	(0.955)	39665	10.0000	7.40056(a)
90	1,4-Dinitrobenzene	168	7.604	7.604	(0.962)	20495	10.0000	10.2875
92	1,3-Dinitrobenzene	168	7.674	7.674	(0.971)	27523	10.0000	8.28925(a)
100	Pentachlorobenzene	250	8.051	8.051	(1.019)	79785	10.0000	10.0491
103	1-Naphthylamine	143	8.162	8.162	(1.033)	204704	10.0000	10.2903
104	2,3,4,6-Tetrachlorophenol	232	8.192	8.192	(1.036)	42955	10.0000	8.61010(a)
106	2-Naphthylamine	143	8.233	8.233	(1.042)	213481	10.0000	10.4093
108	Thionazin	97	8.321	8.321	(1.053)	40924	10.0000	9.34461(a)
111	5-Nitro-o-toluidine	152	8.403	8.403	(1.063)	51999	10.0000	8.63803(a)
114	Diphenylamine	169	8.474	8.474	(1.072)	183372	10.0000	10.3730
117	Sulfotepp	97	8.562	8.562	(0.933)	31267	10.0000	9.75280(a)
119	Diallate (#1)	86	8.691	8.691	(0.947)	64011	7.20000	7.00748(a)
120	1,3,5-Trinitrobenzene	213	8.691	8.691	(0.947)	9629	10.0000	10.6232(Q)
121	Phorate	121	8.703	8.703	(0.948)	37738	10.0000	9.81515(a)
122	Phenacetin	108	8.714	8.714	(0.949)	80704	10.0000	8.51457(a)
123	Diallate (#2)	86	8.767	8.767	(0.955)	12848	2.80000	2.62634(a)
126	Dimethoate	87	8.861	8.861	(0.965)	61288	10.0000	9.89278(a)
130	4-Aminobiphenyl	169	9.008	9.008	(0.981)	229352	10.0000	10.3738
131	Pentachloronitrobenzene	237	9.020	9.020	(0.983)	25659	10.0000	9.97389(a)
132	Pronamide	173	9.014	9.014	(0.982)	82000	10.0000	9.91778(a)
133	Disulfoton	88	9.126	9.126	(0.994)	92266	10.0000	9.69146(a)
134	2-secbutyl-4,6-dinitropheno	211	9.132	9.132	(0.995)	22658	10.0000	12.9963
142	Methyl parathion	109	9.437	9.437	(1.028)	47720	10.0000	8.07819(a)
145	Parathion	109	9.725	9.725	(1.060)	25844	10.0000	6.75780(a)
146	4-Nitroquinoline-1-oxide	190	9.813	9.813	(1.069)	17238	10.0000	12.9886(Q)
147	Methapyrilene	97	9.813	9.813	(1.069)	78711	10.0000	10.7112
148	Isodrin	193	10.013	10.013	(1.091)	34253	10.0000	9.93051(a)
153	Aramite (#1)	185	10.330	10.330	(0.915)	9156	4.60000	3.41486(a)
155	Aramite (#2)	185	10.389	10.389	(0.920)	19283	5.40000	4.13884(a)
156	p-Dimethylaminoazobenzene	120	10.506	10.506	(0.931)	78123	10.0000	8.83919(a)
157	Chlorobenzilate	251	10.518	10.518	(0.932)	77649	10.0000	8.78020(a)
160	3,3'-Dimethylbenzidine	212	10.783	10.783	(0.955)	163923	10.0000	8.63231(a)
161	2-Acetylaminofluorene	181	10.988	10.988	(0.973)	72825	10.0000	6.06558(a)
M 173	Total Isosafrole	162				46040	10.0000	9.46252(a)
M 174	Total Diallate	86				76859	10.0000	9.63382(a)
M 175	Total Aramite	185				28439	10.0000	7.55370(a)
176	7,12-Dimethylbenz(a)anthrac	256	12.175	12.175	(0.966)	131100	10.0000	8.84504(a)
181	3-Methylcholanthrene	268	12.892	12.892	(1.022)	118672	10.0000	7.89846(a)
184	Dibenz(a,j)acridine	279	13.644	13.644	(1.082)	175403	10.0000	7.98830(a)

QC Flag Legend

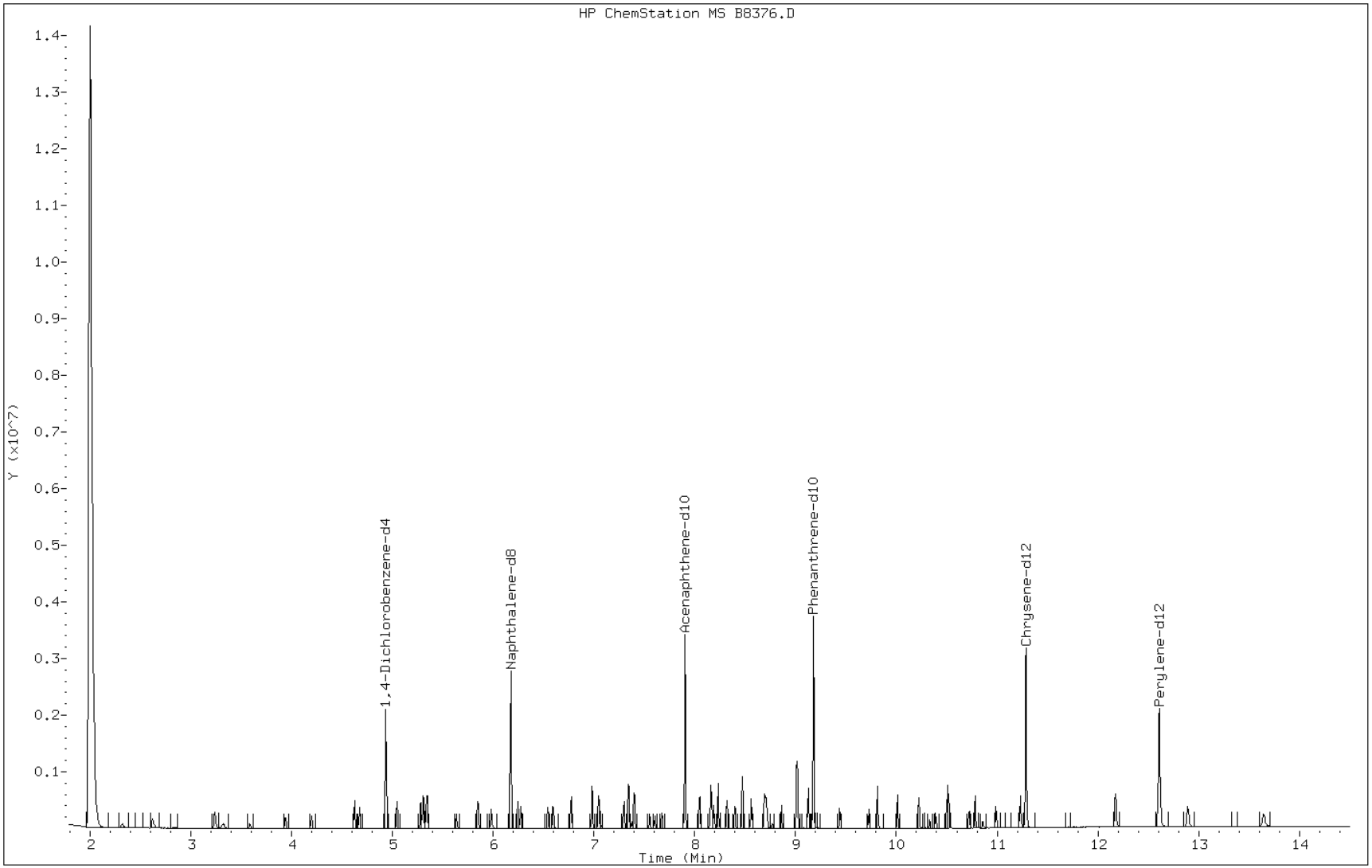
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: B8376.D

Date: 06-DEC-2011 14:58

Client ID: MS-AP9010_00016 Instrument: B.i

Sample Info: STD010-1149039,,MS-AP9010_00016 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\B8377.D
Lab Smp Id: STD020-1149040 Client Smp ID: MS-AP9020_00016
Inj Date : 06-DEC-2011 15:17
Operator : KIEKELD Inst ID: B.i
Smp Info : STD020-1149040,,MS-AP9020_00016
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\8270C.m
Meth Date : 08-Dec-2011 16:38 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 14:58 Cal File: B8376.D
Als bottle: 23 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.937	4.937	(1.000)	280898	40.0000	
* 58 Naphthalene-d8	136	6.177	6.177	(1.000)	1100584	40.0000	
* 96 Acenaphthene-d10	164	7.904	7.904	(1.000)	646191	40.0000	
* 135 Phenanthrene-d10	188	9.179	9.179	(1.000)	1109806	40.0000	
* 166 Chrysene-d12	240	11.277	11.277	(1.000)	1172116	40.0000	
* 179 Perylene-d12	264	12.593	12.593	(1.000)	1041062	40.0000	
9 2-Picoline	93	3.239	3.239	(0.656)	203610	20.0000	19.9242
10 N-Nitrosomethylethylamine	88	3.327	3.327	(0.674)	89025	20.0000	19.5194
11 Methyl methanesulfonate	80	3.586	3.586	(0.726)	56373	20.0000	19.3512
12 N-Nitrosodiethylamine	102	3.938	3.938	(0.798)	93366	20.0000	19.5998
13 Ethyl methanesulfonate	79	4.197	4.197	(0.850)	150990	20.0000	20.2856
24 Pentachloroethane	117	4.679	4.679	(0.948)	75619	20.0000	20.0117
39 N-Nitrosopyrrolidine	100	5.301	5.301	(1.074)	97349	20.0000	19.6254
40 N-Nitrosomorpholine	116	5.337	5.337	(1.081)	43750	20.0000	20.2707
42 o-Toluidine	106	5.348	5.348	(1.083)	320436	20.0000	20.4083
46 N-Nitrosopiperidine	114	5.636	5.636	(0.912)	94329	20.0000	19.5688
51 O,O,O-Triethyl phosphorothio	198	5.848	5.848	(0.947)	97984	20.0000	19.8931
55 a,a-Dimethylphenethylamine	58	5.983	5.983	(0.969)	407865	20.0000	19.5089
61 2,6-Dichlorophenol	162	6.247	6.247	(1.011)	157034	20.0000	19.7083
63 Hexachloropropene	213	6.277	6.277	(1.016)	120337	20.0000	18.8703
64 N-Nitrosodi-n-butylamine	84	6.541	6.541	(1.059)	118996	20.0000	19.5356
66 p-Phenylenediamine	108	6.594	6.594	(1.068)	267818	20.0000	20.4771

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
70	Safrole	162	6.776	6.776	(1.097)	152698	20.0000	19.9036
75	1,2,4,5-Tetrachlorobenzene	216	7.046	7.046	(1.141)	191877	20.0000	20.5483
76	Isosafrole (#1)	162	7.070	7.070	(0.894)	28536	3.50000	3.60244(a)
84	Isosafrole (#2)	104	7.299	7.299	(0.923)	71374	16.5000	16.4406
85	Biphenyl	154	7.346	7.346	(0.929)	500435	20.0000	21.1003
87	1-Chloronaphthalene	162	7.405	7.405	(0.937)	363465	20.0000	20.5026
89	1,4-Naphthoquinone	158	7.552	7.552	(0.955)	101239	20.0000	18.6220
90	1,4-Dinitrobenzene	168	7.605	7.605	(0.962)	48863	20.0000	18.9932
92	1,3-Dinitrobenzene	168	7.675	7.675	(0.971)	62324	20.0000	18.5053
100	Pentachlorobenzene	250	8.051	8.051	(1.019)	162617	20.0000	20.1927
103	1-Naphthylamine	143	8.163	8.163	(1.033)	416918	20.0000	20.6622
104	2,3,4,6-Tetrachlorophenol	232	8.192	8.192	(1.036)	98144	20.0000	19.3946
106	2-Naphthylamine	143	8.233	8.233	(1.042)	435133	20.0000	20.9173
108	Thionazin	97	8.321	8.321	(1.053)	85955	20.0000	19.3498
111	5-Nitro-o-toluidine	152	8.398	8.398	(1.062)	115048	20.0000	18.8417
114	Diphenylamine	169	8.474	8.474	(1.072)	374566	20.0000	20.8892
117	Sulfotepp	97	8.562	8.562	(0.933)	67628	20.0000	20.7879
119	Diallate (#1)	86	8.691	8.691	(0.947)	136359	14.4000	14.7107
120	1,3,5-Trinitrobenzene	213	8.691	8.691	(0.947)	26011	20.0000	17.8053
121	Phorate	121	8.703	8.703	(0.948)	78626	20.0000	20.1524
122	Phenacetin	108	8.715	8.715	(0.949)	181037	20.0000	18.8225
123	Diallate (#2)	86	8.768	8.768	(0.955)	26192	5.60000	5.27626(a)
126	Dimethoate	87	8.862	8.862	(0.965)	134295	20.0000	21.3621
130	4-Aminobiphenyl	169	9.009	9.009	(0.981)	470274	20.0000	20.9618
131	Pentachloronitrobenzene	237	9.020	9.020	(0.983)	53524	20.0000	20.5029
132	Pronamide	173	9.015	9.015	(0.982)	173895	20.0000	20.7267
133	Disulfoton	88	9.126	9.126	(0.994)	196284	20.0000	20.3177
134	2-secbutyl-4,6-dinitropheno	211	9.132	9.132	(0.995)	62611	20.0000	20.2568
142	Methyl parathion	109	9.438	9.438	(1.028)	116276	20.0000	19.3975
145	Parathion	109	9.726	9.726	(1.060)	64578	20.0000	16.6407
146	4-Nitroquinoline-1-oxide	190	9.814	9.814	(1.069)	43172	20.0000	19.9606(Q)
147	Methapyrilene	97	9.814	9.814	(1.069)	164730	20.0000	22.0912
148	Isodrin	193	10.013	10.013	(1.091)	70497	20.0000	20.1412
153	Aramite (#1)	185	10.331	10.331	(0.916)	21135	9.20000	7.81667(a)
155	Aramite (#2)	185	10.389	10.389	(0.921)	47429	10.8000	10.0949
156	p-Dimethylaminoazobenzene	120	10.501	10.501	(0.931)	175873	20.0000	19.7326
157	Chlorobenzilate	251	10.513	10.513	(0.932)	166806	20.0000	18.7039
160	3,3'-Dimethylbenzidine	212	10.777	10.777	(0.956)	367107	20.0000	19.1704
161	2-Acetylaminofluorene	181	10.983	10.983	(0.974)	188042	20.0000	15.5310
M 173	Total Isosafrole	162				99910	20.0000	20.0430
M 174	Total Diallate	86				162551	20.0000	19.9869
M 175	Total Aramite	185				68564	20.0000	17.9115
176	7,12-Dimethylbenz(a)anthrac	256	12.164	12.164	(0.966)	279590	20.0000	18.4417
181	3-Methylcholanthrene	268	12.881	12.881	(1.023)	267446	20.0000	17.4025
184	Dibenz(a,j)acridine	279	13.627	13.627	(1.082)	399822	20.0000	17.8019

QC Flag Legend

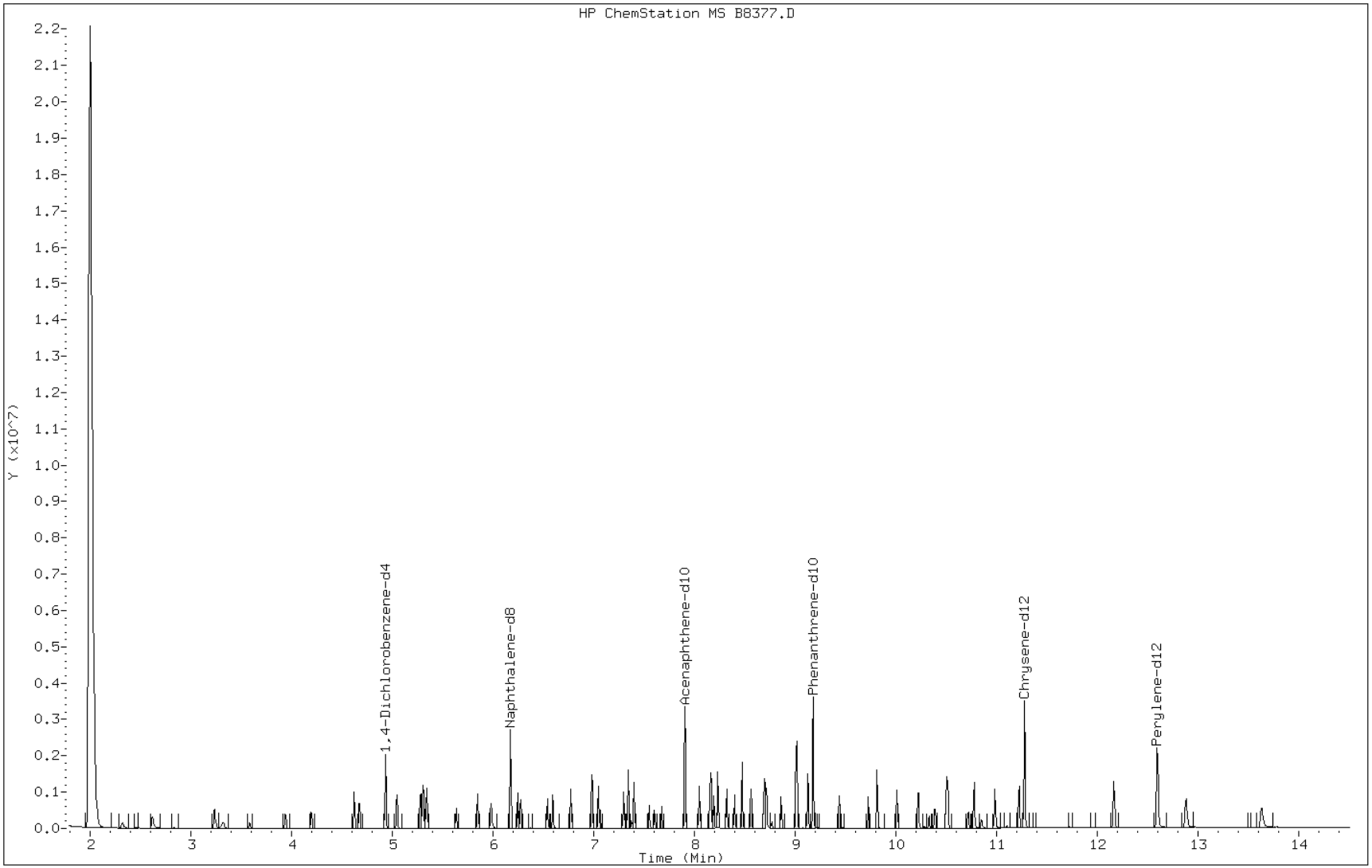
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: B8377.D

Date: 06-DEC-2011 15:17

Client ID: MS-AP9020_00016 Instrument: B.i

Sample Info: STD020-1149040,,MS-AP9020_00016 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\B8378.D
Lab Smp Id: STD050-1149041 Client Smp ID: MS-AP9050_00016
Inj Date : 06-DEC-2011 15:37
Operator : KIEKELD Inst ID: B.i
Smp Info : STD050-1149041,,MS-AP9050_00016
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\8270C.m
Meth Date : 08-Dec-2011 16:38 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 15:17 Cal File: B8377.D
Als bottle: 24 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.934	4.934	(1.000)	280162	40.0000	
* 58 Naphthalene-d8	136	6.174	6.174	(1.000)	1112792	40.0000	
* 96 Acenaphthene-d10	164	7.907	7.907	(1.000)	657093	40.0000	
* 135 Phenanthrene-d10	188	9.176	9.176	(1.000)	1108432	40.0000	
* 166 Chrysene-d12	240	11.286	11.286	(1.000)	1167694	40.0000	
* 179 Perylene-d12	264	12.602	12.602	(1.000)	1048357	40.0000	
9 2-Picoline	93	3.236	3.236	(0.656)	510995	50.0000	50.1347
10 N-Nitrosomethylethylamine	88	3.330	3.330	(0.675)	226864	50.0000	49.8724
11 Methyl methanesulfonate	80	3.589	3.589	(0.727)	145652	50.0000	50.1295
12 N-Nitrosodiethylamine	102	3.941	3.941	(0.799)	237477	50.0000	49.9831
13 Ethyl methanesulfonate	79	4.200	4.200	(0.851)	372562	50.0000	50.1855
24 Pentachloroethane	117	4.676	4.676	(0.948)	188485	50.0000	50.0115
39 N-Nitrosopyrrolidine	100	5.304	5.304	(1.075)	253034	50.0000	51.1454
40 N-Nitrosomorpholine	116	5.334	5.334	(1.081)	106528	50.0000	49.4873
42 o-Toluidine	106	5.346	5.346	(1.083)	799084	50.0000	51.0267
46 N-Nitrosopiperidine	114	5.639	5.639	(0.913)	246365	50.0000	50.5483
51 O,O,O-Triethyl phosphorothio	198	5.851	5.851	(0.948)	250893	50.0000	50.3786
55 a,a-Dimethylphenethylamine	58	5.992	5.992	(0.971)	1066933	50.0000	50.4733
61 2,6-Dichlorophenol	162	6.250	6.250	(1.012)	407947	50.0000	50.6370
63 Hexachloropropene	213	6.274	6.274	(1.016)	326568	50.0000	50.6479
64 N-Nitrosodi-n-butylamine	84	6.544	6.544	(1.060)	308093	50.0000	50.0249
66 p-Phenylenediamine	108	6.597	6.597	(1.069)	688561	50.0000	52.0692

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
70	Safrole	162	6.773	6.773	(1.097)	394155	50.0000	50.8130
75	1,2,4,5-Tetrachlorobenzene	216	7.049	7.049	(1.142)	475504	50.0000	50.3635
76	Isosafrole (#1)	162	7.073	7.073	(0.894)	68762	8.75000	8.53662(a)
84	Isosafrole (#2)	104	7.296	7.296	(0.923)	184893	41.2500	41.8824
85	Biphenyl	154	7.343	7.343	(0.929)	1224255	50.0000	50.7629
87	1-Chloronaphthalene	162	7.402	7.402	(0.936)	910870	50.0000	50.5285
89	1,4-Naphthoquinone	158	7.555	7.555	(0.955)	296944	50.0000	53.7139
90	1,4-Dinitrobenzene	168	7.608	7.608	(0.962)	147036	50.0000	48.6795
92	1,3-Dinitrobenzene	168	7.678	7.678	(0.971)	174157	50.0000	50.8529
100	Pentachlorobenzene	250	8.048	8.048	(1.018)	406828	50.0000	49.6791
103	1-Naphthylamine	143	8.166	8.166	(1.033)	1041410	50.0000	50.7552
104	2,3,4,6-Tetrachlorophenol	232	8.189	8.189	(1.036)	268103	50.0000	52.1017
106	2-Naphthylamine	143	8.236	8.236	(1.042)	1074478	50.0000	50.7943
108	Thionazin	97	8.319	8.319	(1.052)	232152	50.0000	51.3938
111	5-Nitro-o-toluidine	152	8.401	8.401	(1.062)	312049	50.0000	50.2572
114	Diphenylamine	169	8.477	8.477	(1.072)	935546	50.0000	51.3089
117	Sulfotepp	97	8.559	8.559	(0.933)	167788	50.0000	51.6397
119	Diallate (#1)	86	8.689	8.689	(0.947)	347700	36.0000	37.5570
120	1,3,5-Trinitrobenzene	213	8.695	8.695	(0.948)	92074	50.0000	47.0723
121	Phorate	121	8.700	8.700	(0.948)	201075	50.0000	51.6007
122	Phenacetin	108	8.718	8.718	(0.950)	498596	50.0000	51.9034
123	Diallate (#2)	86	8.771	8.771	(0.956)	69829	14.0000	14.0842
126	Dimethoate	87	8.865	8.865	(0.966)	333355	50.0000	53.0920
130	4-Aminobiphenyl	169	9.012	9.012	(0.982)	1190885	50.0000	53.1478
131	Pentachloronitrobenzene	237	9.024	9.024	(0.983)	134158	50.0000	51.4542
132	Pronamide	173	9.018	9.018	(0.983)	443977	50.0000	52.9835
133	Disulfoton	88	9.123	9.123	(0.994)	506787	50.0000	52.5234
134	2-secbutyl-4,6-dinitropheno	211	9.129	9.129	(0.995)	214111	50.0000	48.0694
142	Methyl parathion	109	9.441	9.441	(1.029)	321280	50.0000	53.6632
145	Parathion	109	9.723	9.723	(1.060)	199157	50.0000	51.3832
146	4-Nitroquinoline-1-oxide	190	9.817	9.817	(1.070)	152078	50.0000	49.5796
147	Methapyrilene	97	9.817	9.817	(1.070)	391431	50.0000	52.5581
148	Isodrin	193	10.011	10.011	(1.091)	178114	50.0000	50.9508
153	Aramite (#1)	185	10.334	10.334	(0.916)	61321	23.0000	22.7652
155	Aramite (#2)	185	10.393	10.393	(0.921)	127695	27.0000	27.2817
156	p-Dimethylaminoazobenzene	120	10.504	10.504	(0.931)	470712	50.0000	53.0130
157	Chlorobenzilate	251	10.516	10.516	(0.932)	453644	50.0000	51.0597
160	3,3'-Dimethylbenzidine	212	10.780	10.780	(0.955)	964824	50.0000	50.5742
161	2-Acetylaminofluorene	181	10.992	10.992	(0.974)	592079	50.0000	49.0869
M 173	Total Isosafrole	162				253655	50.0000	50.4190
M 174	Total Diallate	86				417529	50.0000	51.6412
M 175	Total Aramite	185				189016	50.0000	50.0469
176	7,12-Dimethylbenz(a)anthrac	256	12.173	12.173	(0.966)	747457	50.0000	48.9590
181	3-Methylcholanthrene	268	12.890	12.890	(1.023)	751006	50.0000	48.5274
184	Dibenz(a,j)acridine	279	13.642	13.642	(1.083)	1134225	50.0000	50.1494

QC Flag Legend

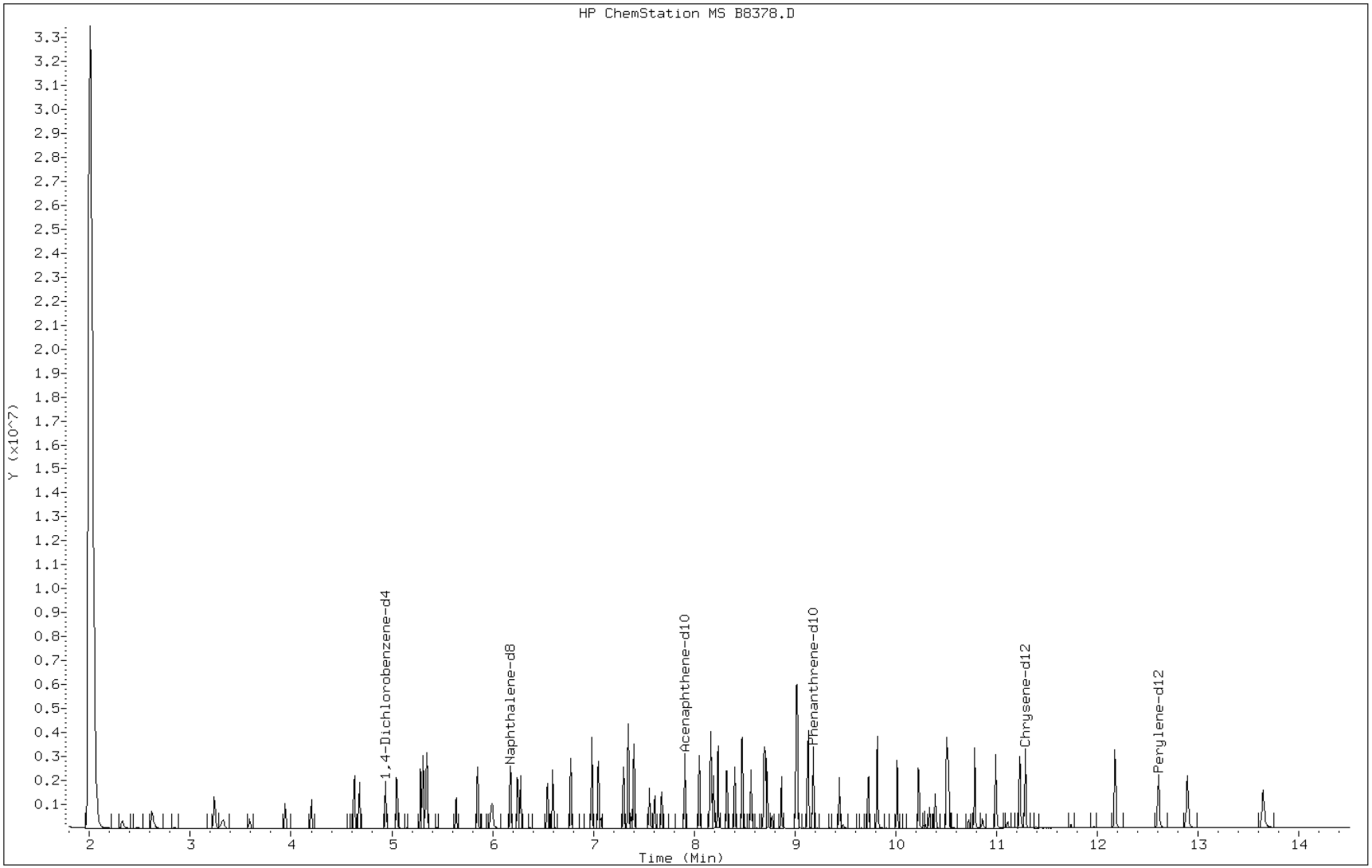
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: B8378.D

Date: 06-DEC-2011 15:37

Client ID: MS-AP9050_00016 Instrument: B.i

Sample Info: STD050-1149041,,MS-AP9050_00016 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\B8379.D
Lab Smp Id: STD120-1149056 Client Smp ID: MS-AP9120_00016
Inj Date : 06-DEC-2011 15:56
Operator : KIEKELD Inst ID: B.i
Smp Info : STD120-1149056,,MS-AP9120_00016
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\8270C.m
Meth Date : 08-Dec-2011 16:38 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 15:37 Cal File: B8378.D
Als bottle: 25 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.936	4.936	(1.000)	287781	40.0000	
* 58 Naphthalene-d8	136	6.176	6.176	(1.000)	1123038	40.0000	
* 96 Acenaphthene-d10	164	7.903	7.903	(1.000)	654080	40.0000	
* 135 Phenanthrene-d10	188	9.178	9.178	(1.000)	1124675	40.0000	
* 166 Chrysene-d12	240	11.282	11.282	(1.000)	1180775	40.0000	
* 179 Perylene-d12	264	12.604	12.604	(1.000)	1055223	40.0000	
9 2-Picoline	93	3.238	3.238	(0.656)	1247444	120.000	119.149
10 N-Nitrosomethylethylamine	88	3.326	3.326	(0.674)	563810	120.000	120.663
11 Methyl methanesulfonate	80	3.585	3.585	(0.726)	366803	120.000	122.901
12 N-Nitrosodiethylamine	102	3.943	3.943	(0.799)	589826	120.000	120.857
13 Ethyl methanesulfonate	79	4.202	4.202	(0.851)	899185	120.000	117.917
24 Pentachloroethane	117	4.678	4.678	(0.948)	455949	120.000	117.776
39 N-Nitrosopyrrolidine	100	5.306	5.306	(1.075)	608686	120.000	119.776
40 N-Nitrosomorpholine	116	5.342	5.342	(1.082)	257745	120.000	116.565
42 o-Toluidine	106	5.348	5.348	(1.083)	1891156	120.000	117.565
46 N-Nitrosopiperidine	114	5.641	5.641	(0.913)	597941	120.000	121.564
51 O,O,O-Triethyl phosphorothio	198	5.853	5.853	(0.948)	606409	120.000	120.654
55 a,a-Dimethylphenethylamine	58	5.982	5.982	(0.969)	2630488	120.000	123.305(M)
61 2,6-Dichlorophenol	162	6.252	6.252	(1.012)	996262	120.000	122.534
63 Hexachloropropene	213	6.276	6.276	(1.016)	799382	120.000	122.846
64 N-Nitrosodi-n-butylamine	84	6.546	6.546	(1.060)	765506	120.000	123.161
66 p-Phenylenediamine	108	6.599	6.599	(1.068)	1616887	120.000	121.154

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
70	Safrole	162	6.775	6.775	(1.097)	943344	120.000	120.503
75	1,2,4,5-Tetrachlorobenzene	216	7.051	7.051	(1.142)	1120847	120.000	117.633
76	Isosafrole (#1)	162	7.069	7.069	(0.894)	173534	21.0000	21.6430
84	Isosafrole (#2)	104	7.298	7.298	(0.923)	448569	99.0000	102.079
85	Biphenyl	154	7.345	7.345	(0.929)	2819342	120.000	117.441
87	1-Chloronaphthalene	162	7.404	7.404	(0.937)	2114839	120.000	117.856
89	1,4-Naphthoquinone	158	7.551	7.551	(0.955)	734160	120.000	133.413
90	1,4-Dinitrobenzene	168	7.610	7.610	(0.963)	391228	120.000	123.695
92	1,3-Dinitrobenzene	168	7.680	7.680	(0.972)	437764	120.000	128.414
100	Pentachlorobenzene	250	8.050	8.050	(1.019)	977550	120.000	119.922
103	1-Naphthylamine	143	8.168	8.168	(1.033)	2456644	120.000	120.281
104	2,3,4,6-Tetrachlorophenol	232	8.197	8.197	(1.037)	643386	120.000	125.608
106	2-Naphthylamine	143	8.238	8.238	(1.042)	2510358	120.000	119.220
108	Thionazin	97	8.326	8.326	(1.054)	555154	120.000	123.466
111	5-Nitro-o-toluidine	152	8.409	8.409	(1.064)	787245	120.000	127.374
114	Diphenylamine	169	8.479	8.479	(1.073)	2153692	120.000	118.661
117	Sulfotepp	97	8.561	8.561	(0.933)	393948	120.000	119.493
119	Diallate (#1)	86	8.691	8.691	(0.947)	808634	86.4000	86.0836
120	1,3,5-Trinitrobenzene	213	8.697	8.697	(0.948)	268323	120.000	123.399
121	Phorate	121	8.708	8.708	(0.949)	482332	120.000	121.990
122	Phenacetin	108	8.726	8.726	(0.951)	1187790	120.000	121.862
123	Diallate (#2)	86	8.767	8.767	(0.955)	173955	33.6000	34.5792
126	Dimethoate	87	8.867	8.867	(0.966)	757476	120.000	118.898
130	4-Aminobiphenyl	169	9.014	9.014	(0.982)	2686520	120.000	118.165
131	Pentachloronitrobenzene	237	9.026	9.026	(0.983)	319599	120.000	120.807
132	Pronamide	173	9.020	9.020	(0.983)	1013441	120.000	119.196
133	Disulfoton	88	9.126	9.126	(0.994)	1179449	120.000	120.472
134	2-secbutyl-4,6-dinitropheno	211	9.137	9.137	(0.996)	615614	120.000	120.109
142	Methyl parathion	109	9.443	9.443	(1.029)	736657	120.000	121.266
145	Parathion	109	9.731	9.731	(1.060)	496424	120.000	126.229
146	4-Nitroquinoline-1-oxide	190	9.819	9.819	(1.070)	428461	120.000	123.028(Q)
147	Methapyrilene	97	9.819	9.819	(1.070)	855112	120.000	113.159
148	Isodrin	193	10.013	10.013	(1.091)	427022	120.000	120.388
153	Aramite (#1)	185	10.336	10.336	(0.916)	155056	55.2000	56.9261
155	Aramite (#2)	185	10.395	10.395	(0.921)	310357	64.8000	65.5725
156	p-Dimethylaminoazobenzene	120	10.506	10.506	(0.931)	1090873	120.000	121.496
157	Chlorobenzilate	251	10.518	10.518	(0.932)	1128015	120.000	125.557
160	3,3'-Dimethylbenzidine	212	10.782	10.782	(0.956)	2363098	120.000	122.497
161	2-Acetylaminofluorene	181	10.994	10.994	(0.974)	1556753	120.000	127.634
M 173	Total Isosafrole	162				622103	120.000	123.722
M 174	Total Diallate	86				982589	120.000	120.663
M 175	Total Aramite	185				465413	120.000	122.499
176	7,12-Dimethylbenz(a)anthrac	256	12.175	12.175	(0.966)	1884561	120.000	122.637
181	3-Methylcholanthrene	268	12.898	12.898	(1.023)	1934659	120.000	124.197
184	Dibenz(a,j)acridine	279	13.650	13.650	(1.083)	2939391	120.000	129.118

QC Flag Legend

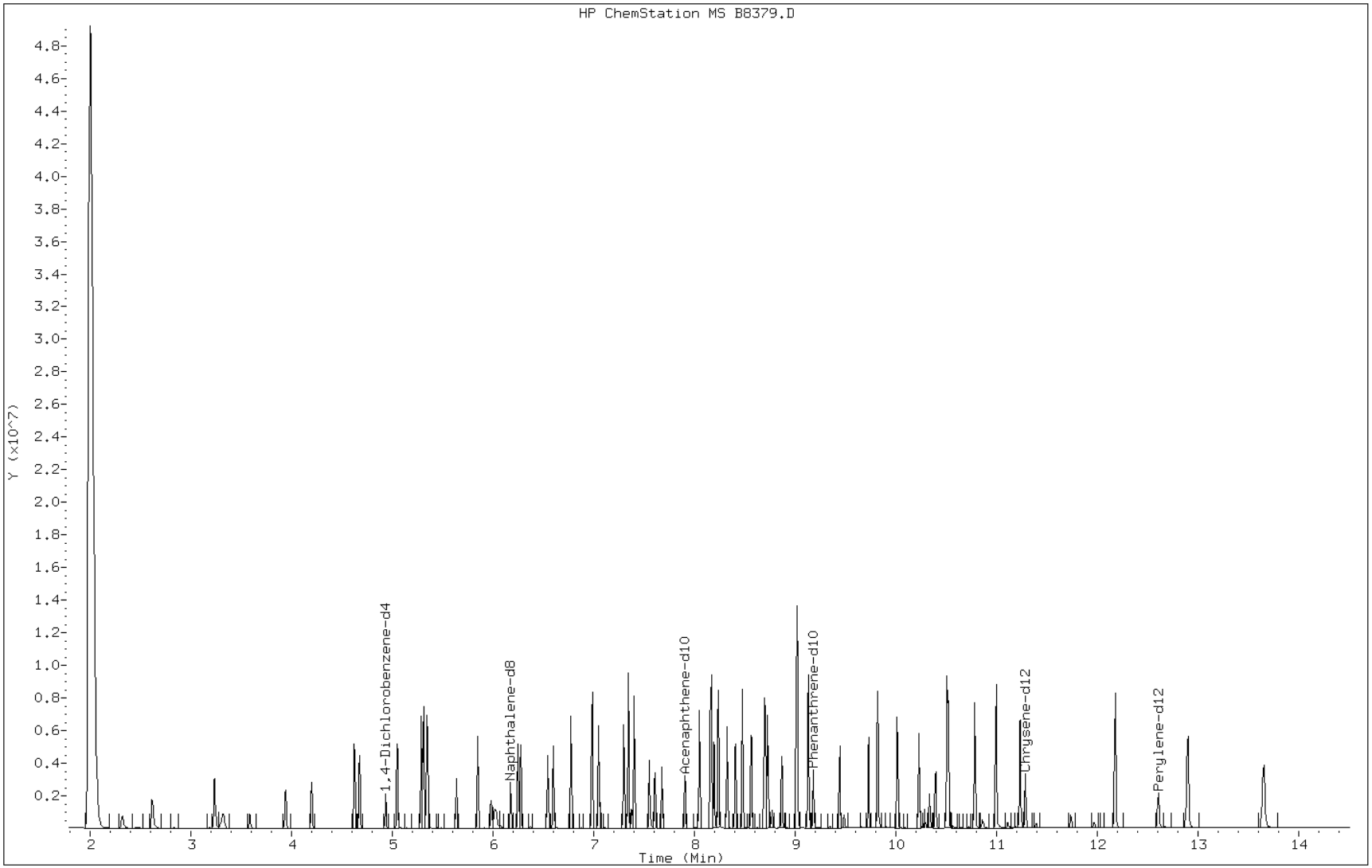
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: B8379.D

Date: 06-DEC-2011 15:56

Client ID: MS-AP9120_00016 Instrument: B.i

Sample Info: STD120-1149056,,MS-AP9120_00016 Operator: KIEKELD



Manual Integration Report

Data File: B8379.D
Inj. Date and Time: 06-DEC-2011 15:56
Instrument ID: B.i
Client ID: MS-AP9120_00016
Compound: 55 a,a-Dimethylphenethylamine
CAS #: 122-09-8
Report Date: 12/08/2011

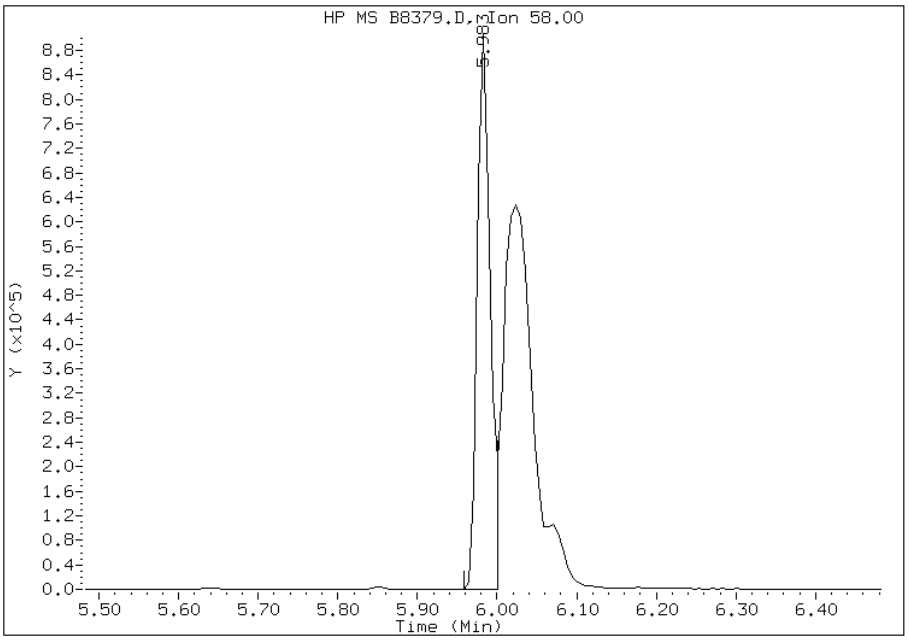
Processing Integration Results

RT: 5.98

Response: 1029374

Amount: 0

Conc: 0



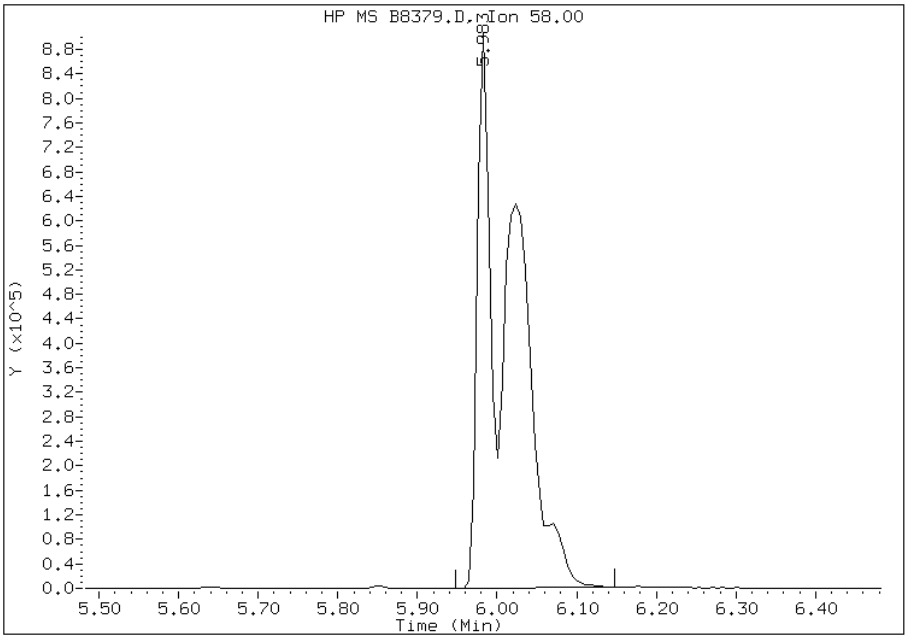
Manual Integration Results

RT: 5.98

Response: 2630488

Amount: 123

Conc: 123



Manually Integrated By: kiekeld
Modification Date: 08-Dec-2011 15:59
Manual Integration Reason: Split Peak

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\B8380.D
Lab Smp Id: STD160-1149057 Client Smp ID: MS-AP9160_00016
Inj Date : 06-DEC-2011 16:16
Operator : KIEKELD Inst ID: B.i
Smp Info : STD160-1149057,,MS-AP9160_00016
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\8270C.m
Meth Date : 08-Dec-2011 16:38 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 15:56 Cal File: B8379.D
Als bottle: 26 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.937	4.937	(1.000)	278200	40.0000	
* 58 Naphthalene-d8	136	6.177	6.177	(1.000)	1100745	40.0000	
* 96 Acenaphthene-d10	164	7.904	7.904	(1.000)	647419	40.0000	
* 135 Phenanthrene-d10	188	9.179	9.179	(1.000)	1099059	40.0000	
* 166 Chrysene-d12	240	11.294	11.294	(1.000)	1160418	40.0000	
* 179 Perylene-d12	264	12.616	12.616	(1.000)	1021154	40.0000	
9 2-Picoline	93	3.233	3.233	(0.655)	1638226	160.000	161.863
10 N-Nitrosomethylethylamine	88	3.327	3.327	(0.674)	752143	160.000	166.512
11 Methyl methanesulfonate	80	3.585	3.585	(0.726)	484770	160.000	168.021
12 N-Nitrosodiethylamine	102	3.944	3.944	(0.799)	784648	160.000	166.314
13 Ethyl methanesulfonate	79	4.202	4.202	(0.851)	1170623	160.000	158.800
24 Pentachloroethane	117	4.678	4.678	(0.948)	601604	160.000	160.752
39 N-Nitrosopyrrolidine	100	5.313	5.313	(1.076)	799079	160.000	162.656
40 N-Nitrosomorpholine	116	5.342	5.342	(1.082)	343906	160.000	160.887
42 o-Toluidine	106	5.354	5.354	(1.084)	2426570	160.000	156.045
46 N-Nitrosopiperidine	114	5.642	5.642	(0.913)	785484	160.000	162.927
51 O,O,O-Triethyl phosphorothio	198	5.853	5.853	(0.948)	789978	160.000	160.361
55 a,a-Dimethylphenethylamine	58	5.983	5.983	(0.969)	3412231	160.000	163.189(M)
61 2,6-Dichlorophenol	162	6.253	6.253	(1.012)	1301173	160.000	163.278
63 Hexachloropropene	213	6.276	6.276	(1.016)	1068250	160.000	167.490
64 N-Nitrosodi-n-butylamine	84	6.547	6.547	(1.060)	1005410	160.000	165.034
66 p-Phenylenediamine	108	6.605	6.605	(1.069)	2052110	160.000	156.879

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
70	Safrole	162	6.776	6.776	(1.097)	1221186	160.000	159.154
75	1,2,4,5-Tetrachlorobenzene	216	7.052	7.052	(1.142)	1469684	160.000	157.367
76	Isosafrole (#1)	162	7.070	7.070	(0.894)	228096	28.0000	28.7407
84	Isosafrole (#2)	104	7.299	7.299	(0.923)	576638	132.000	132.573
85	Biphenyl	154	7.346	7.346	(0.929)	3626980	160.000	152.638
87	1-Chloronaphthalene	162	7.405	7.405	(0.937)	2786136	160.000	156.864
89	1,4-Naphthoquinone	158	7.557	7.557	(0.956)	913086	160.000	167.635
90	1,4-Dinitrobenzene	168	7.610	7.610	(0.963)	520153	160.000	164.831
92	1,3-Dinitrobenzene	168	7.681	7.681	(0.972)	576385	160.000	170.816
100	Pentachlorobenzene	250	8.051	8.051	(1.019)	1304779	160.000	161.712
103	1-Naphthylamine	143	8.168	8.168	(1.033)	3151243	160.000	155.877
104	2,3,4,6-Tetrachlorophenol	232	8.198	8.198	(1.037)	839836	160.000	165.648
106	2-Naphthylamine	143	8.239	8.239	(1.042)	3234414	160.000	155.187
108	Thionazin	97	8.327	8.327	(1.054)	717919	160.000	161.308
111	5-Nitro-o-toluidine	152	8.409	8.409	(1.064)	1037171	160.000	169.538
114	Diphenylamine	169	8.480	8.480	(1.073)	2778421	160.000	154.656
117	Sulfotepp	97	8.562	8.562	(0.933)	511521	160.000	158.772
119	Diallate (#1)	86	8.691	8.691	(0.947)	1049601	115.200	114.340
120	1,3,5-Trinitrobenzene	213	8.697	8.697	(0.948)	359279	160.000	166.747
121	Phorate	121	8.709	8.709	(0.949)	612973	160.000	158.645
122	Phenacetin	108	8.732	8.732	(0.951)	1686151	160.000	177.024
123	Diallate (#2)	86	8.773	8.773	(0.956)	231006	44.8000	46.9902
126	Dimethoate	87	8.873	8.873	(0.967)	934698	160.000	150.135
130	4-Aminobiphenyl	169	9.014	9.014	(0.982)	3381127	160.000	152.183
131	Pentachloronitrobenzene	237	9.026	9.026	(0.983)	405231	160.000	156.746
132	Pronamide	173	9.020	9.020	(0.983)	1293020	160.000	155.623
133	Disulfoton	88	9.132	9.132	(0.995)	1515489	160.000	158.405
134	2-secbutyl-4,6-dinitropheno	211	9.138	9.138	(0.996)	846073	160.000	165.350
142	Methyl parathion	109	9.443	9.443	(1.029)	928229	160.000	156.364
145	Parathion	109	9.731	9.731	(1.060)	651355	160.000	169.485
146	4-Nitroquinoline-1-oxide	190	9.819	9.819	(1.070)	561591	160.000	162.202(Q)
147	Methapyrilene	97	9.819	9.819	(1.070)	1067913	160.000	144.613
148	Isodrin	193	10.013	10.013	(1.091)	557454	160.000	160.824
153	Aramite (#1)	185	10.336	10.336	(0.915)	209715	73.6000	78.3439
155	Aramite (#2)	185	10.395	10.395	(0.920)	412688	86.4000	88.7227
156	p-Dimethylaminoazobenzene	120	10.513	10.513	(0.931)	1381155	160.000	156.525
157	Chlorobenzilate	251	10.524	10.524	(0.932)	1496695	160.000	169.516
160	3,3'-Dimethylbenzidine	212	10.789	10.789	(0.955)	3058066	160.000	161.303
161	2-Acetylaminofluorene	181	11.000	11.000	(0.974)	2073273	160.000	172.964
M 173	Total Isosafrole	162				804734	160.000	161.314
M 174	Total Diallate	86				1280607	160.000	161.330
M 175	Total Aramite	185				622403	160.000	167.067
176	7,12-Dimethylbenz(a)anthrac	256	12.187	12.187	(0.966)	2494331	160.000	167.733(A)
181	3-Methylcholanthrene	268	12.910	12.910	(1.023)	2574733	160.000	170.802
184	Dibenz(a,j)acridine	279	13.662	13.662	(1.083)	3923234	160.000	178.086

QC Flag Legend

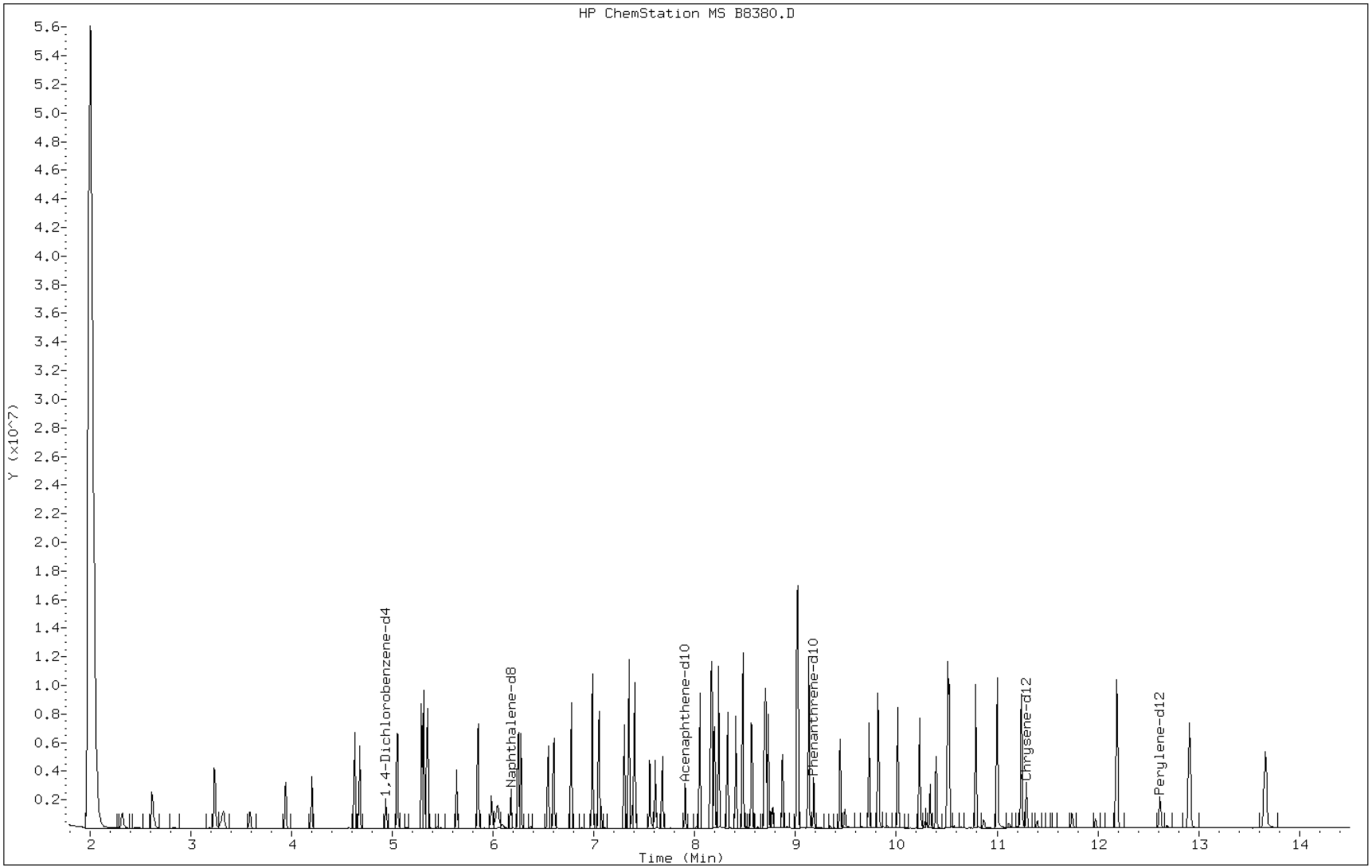
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: B8380.D

Date: 06-DEC-2011 16:16

Client ID: MS-AP9160_00016 Instrument: B.i

Sample Info: STD160-1149057,,MS-AP9160_00016 Operator: KIEKELD



Manual Integration Report

Data File: B8380.D
Inj. Date and Time: 06-DEC-2011 16:16
Instrument ID: B.i
Client ID: MS-AP9160_00016
Compound: 55 a,a-Dimethylphenethylamine
CAS #: 122-09-8
Report Date: 12/08/2011

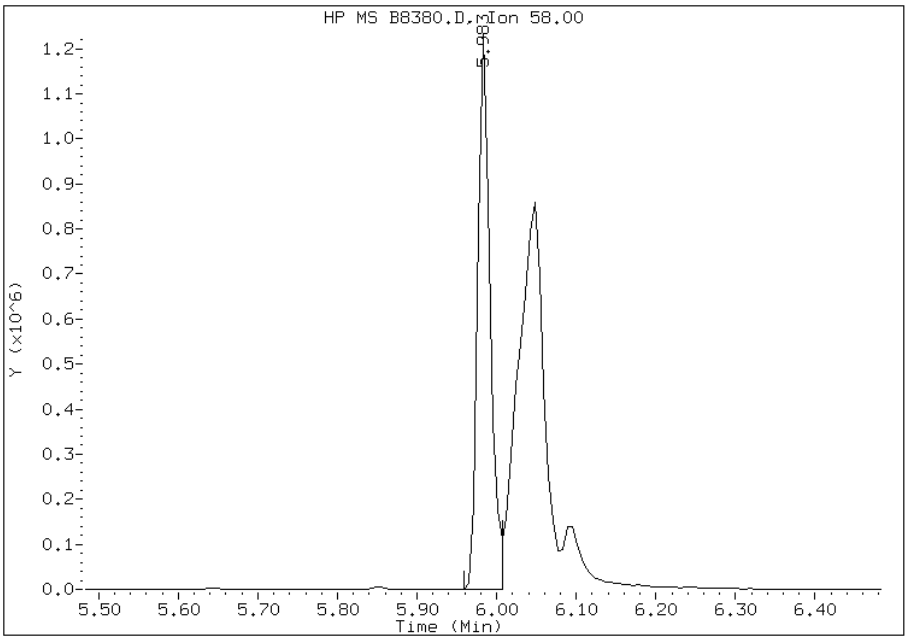
Processing Integration Results

RT: 5.98

Response: 1324335

Amount: 0

Conc: 0



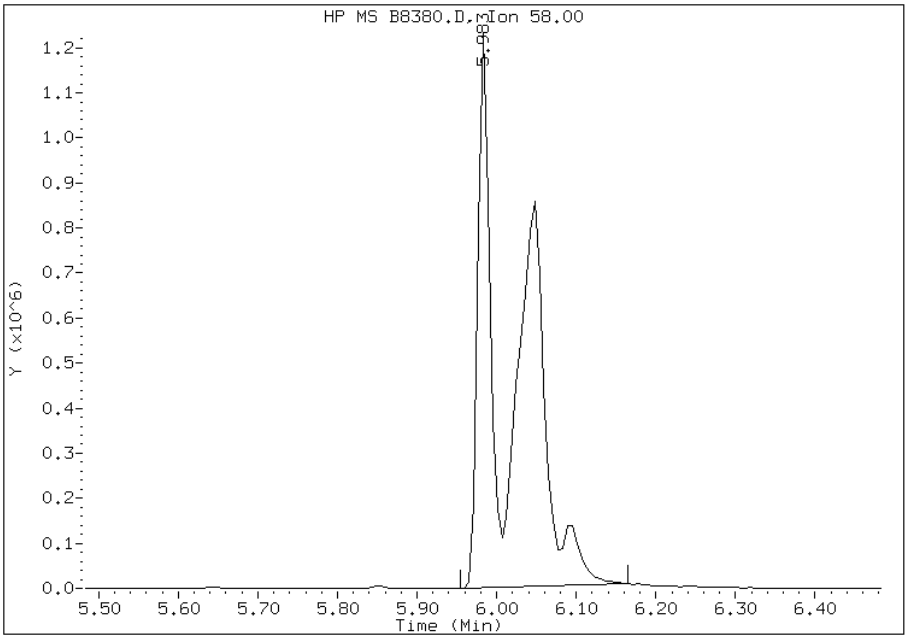
Manual Integration Results

RT: 5.98

Response: 3412231

Amount: 163

Conc: 163



Manually Integrated By: kiekeld
Modification Date: 08-Dec-2011 15:59
Manual Integration Reason: Split Peak

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\B8381.D
Lab Smp Id: STD200-1149059 Client Smp ID: MS-AP9200_00016
Inj Date : 06-DEC-2011 16:36
Operator : KIEKELD Inst ID: B.i
Smp Info : STD200-1149059,,MS-AP9200_00016
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\8270C.m
Meth Date : 08-Dec-2011 16:38 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 16:16 Cal File: B8380.D
Als bottle: 27 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.936	4.936	(1.000)	279295	40.0000	
* 58 Naphthalene-d8	136	6.176	6.176	(1.000)	1099093	40.0000	
* 96 Acenaphthene-d10	164	7.909	7.909	(1.000)	646514	40.0000	
* 135 Phenanthrene-d10	188	9.178	9.178	(1.000)	1108196	40.0000	
* 166 Chrysene-d12	240	11.299	11.299	(1.000)	1168107	40.0000	
* 179 Perylene-d12	264	12.627	12.627	(1.000)	1030639	40.0000	
9 2-Picoline	93	3.232	3.232	(0.655)	1969856	200.000	193.866
10 N-Nitrosomethylethylamine	88	3.326	3.326	(0.674)	908495	200.000	200.338(A)
11 Methyl methanesulfonate	80	3.591	3.591	(0.727)	602403	200.000	207.974(A)
12 N-Nitrosodiethylamine	102	3.943	3.943	(0.799)	942006	200.000	198.885
13 Ethyl methanesulfonate	79	4.202	4.202	(0.851)	1407411	200.000	190.172
24 Pentachloroethane	117	4.678	4.678	(0.948)	723112	200.000	192.462
39 N-Nitrosopyrrolidine	100	5.312	5.312	(1.076)	968846	200.000	196.439
40 N-Nitrosomorpholine	116	5.342	5.342	(1.082)	404213	200.000	188.359
42 o-Toluidine	106	5.353	5.353	(1.085)	2905785	200.000	186.129
46 N-Nitrosopiperidine	114	5.641	5.641	(0.913)	958416	200.000	199.095
51 O,O,O-Triethyl phosphorothio	198	5.853	5.853	(0.948)	959332	200.000	195.032
55 a,a-Dimethylphenethylamine	58	5.982	5.982	(0.969)	4193937	200.000	200.875(AQM)
61 2,6-Dichlorophenol	162	6.252	6.252	(1.012)	1551544	200.000	194.988
63 Hexachloropropene	213	6.276	6.276	(1.016)	1285241	200.000	201.814(A)
64 N-Nitrosodi-n-butylamine	84	6.546	6.546	(1.060)	1224269	200.000	201.261(A)
66 p-Phenylenediamine	108	6.605	6.605	(1.069)	2399917	200.000	183.744

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
	70 Safrole	162	6.775	6.775	(1.097)	1472144	200.000	192.149
	75 1,2,4,5-Tetrachlorobenzene	216	7.051	7.051	(1.142)	1769244	200.000	189.727
	76 Isosafrole (#1)	162	7.069	7.069	(0.894)	280400	35.0000	35.3806
	84 Isosafrole (#2)	104	7.298	7.298	(0.923)	689812	165.000	158.815
	85 Biphenyl	154	7.345	7.345	(0.929)	4266552	200.000	179.805
	87 1-Chloronaphthalene	162	7.404	7.404	(0.936)	3342240	200.000	188.437
	89 1,4-Naphthoquinone	158	7.557	7.557	(0.955)	1053637	200.000	193.710
	90 1,4-Dinitrobenzene	168	7.609	7.609	(0.962)	635636	200.000	200.849(A)
	92 1,3-Dinitrobenzene	168	7.680	7.680	(0.971)	702079	200.000	208.358(A)
	100 Pentachlorobenzene	250	8.050	8.050	(1.018)	1563651	200.000	194.067
	103 1-Naphthylamine	143	8.174	8.174	(1.033)	3690979	200.000	182.831
	104 2,3,4,6-Tetrachlorophenol	232	8.197	8.197	(1.036)	1044667	200.000	206.337(A)
	106 2-Naphthylamine	143	8.238	8.238	(1.042)	3784066	200.000	181.813
	108 Thionazin	97	8.326	8.326	(1.053)	870907	200.000	195.956
	111 5-Nitro-o-toluidine	152	8.409	8.409	(1.063)	1253160	200.000	205.131(A)
	114 Diphenylamine	169	8.479	8.479	(1.072)	3287716	200.000	183.261
	117 Sulfotepp	97	8.561	8.561	(0.933)	599114	200.000	184.427
	119 Diallate (#1)	86	8.691	8.691	(0.947)	1256068	144.000	135.704
	120 1,3,5-Trinitrobenzene	213	8.702	8.702	(0.948)	451024	200.000	206.058(A)
	121 Phorate	121	8.708	8.708	(0.949)	732328	200.000	187.973
	122 Phenacetin	108	8.732	8.732	(0.951)	1881977	200.000	195.954
	123 Diallate (#2)	86	8.773	8.773	(0.956)	281841	56.0000	56.8581
	126 Dimethoate	87	8.873	8.873	(0.967)	1087498	200.000	173.238
	130 4-Aminobiphenyl	169	9.014	9.014	(0.982)	3925130	200.000	175.211
	131 Pentachloronitrobenzene	237	9.025	9.025	(0.983)	484419	200.000	185.831
	132 Pronamide	173	9.025	9.025	(0.983)	1510695	200.000	180.322
	133 Disulfoton	88	9.125	9.125	(0.994)	1787086	200.000	185.253
	134 2-secbutyl-4,6-dinitropheno	211	9.137	9.137	(0.996)	1033716	200.000	198.497
	142 Methyl parathion	109	9.443	9.443	(1.029)	1074321	200.000	179.482
	145 Parathion	109	9.731	9.731	(1.060)	764660	200.000	197.327
	146 4-Nitroquinoline-1-oxide	190	9.825	9.825	(1.070)	668568	200.000	190.018(Q)
	147 Methapyrilene	97	9.825	9.825	(1.070)	1260025	200.000	169.222
	148 Isodrin	193	10.018	10.018	(1.092)	660984	200.000	189.119
	153 Aramite (#1)	185	10.336	10.336	(0.915)	246900	91.0000	91.6281
	155 Aramite (#2)	185	10.400	10.400	(0.920)	498993	109.000	106.571
	156 p-Dimethylaminoazobenzene	120	10.512	10.512	(0.930)	1633711	200.000	183.928
	157 Chlorobenzilate	251	10.524	10.524	(0.931)	1813670	200.000	204.064(A)
	160 3,3'-Dimethylbenzidine	212	10.794	10.794	(0.955)	3623503	200.000	189.870
	161 2-Acetylaminofluorene	181	11.011	11.011	(0.975)	2515888	200.000	208.508(A)
M	173 Total Isosafrole	162				970212	200.000	194.195
M	174 Total Diallate	86				1537909	200.000	192.562
M	175 Total Aramite	185				745893	200.000	198.199
	176 7,12-Dimethylbenz(a)anthrac	256	12.198	12.198	(0.966)	3039822	200.000	202.533(A)
	181 3-Methylcholanthrene	268	12.921	12.921	(1.023)	3146628	200.000	206.819(A)
	184 Dibenz(a,j)acridine	279	13.685	13.685	(1.084)	4754195	200.000	213.819(A)

QC Flag Legend

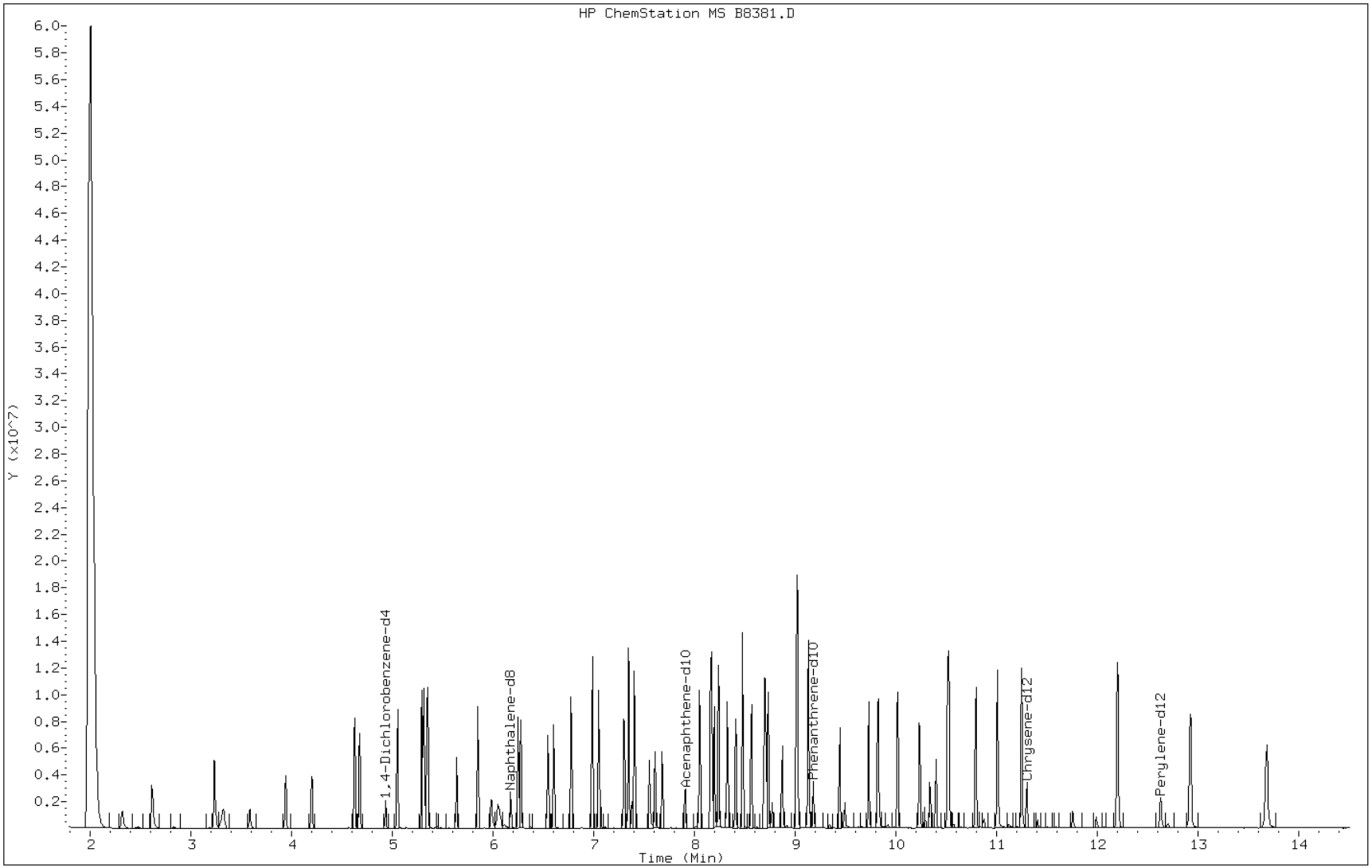
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: B8381.D

Date: 06-DEC-2011 16:36

Client ID: MS-AP9200_00016 Instrument: B.i

Sample Info: STD200-1149059,,MS-AP9200_00016 Operator: KIEKELD



Manual Integration Report

Data File: B8381.D
Inj. Date and Time: 06-DEC-2011 16:36
Instrument ID: B.i
Client ID: MS-AP9200_00016
Compound: 55 a,a-Dimethylphenethylamine
CAS #: 122-09-8
Report Date: 12/08/2011

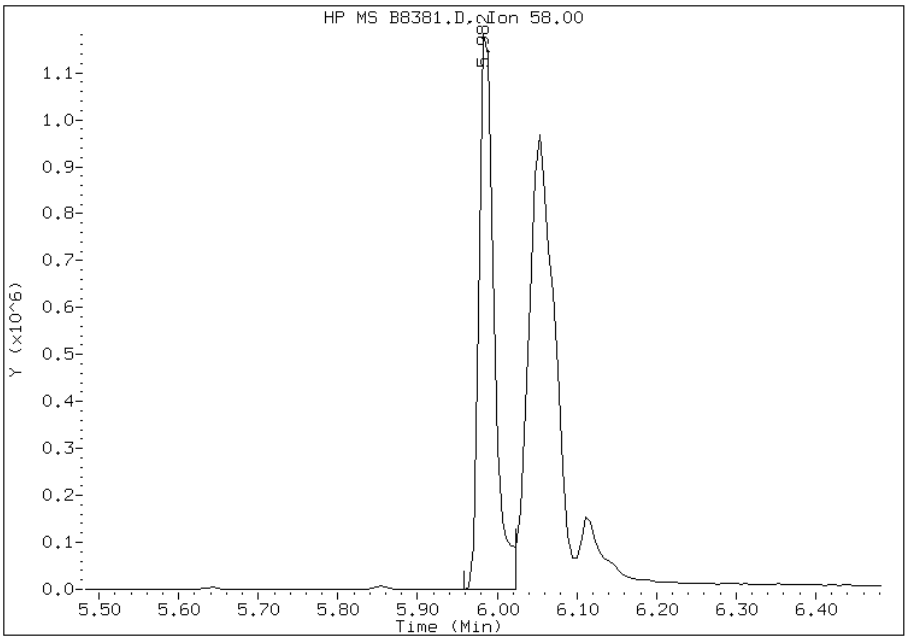
Processing Integration Results

RT: 5.98

Response: 1559057

Amount: 0

Conc: 0



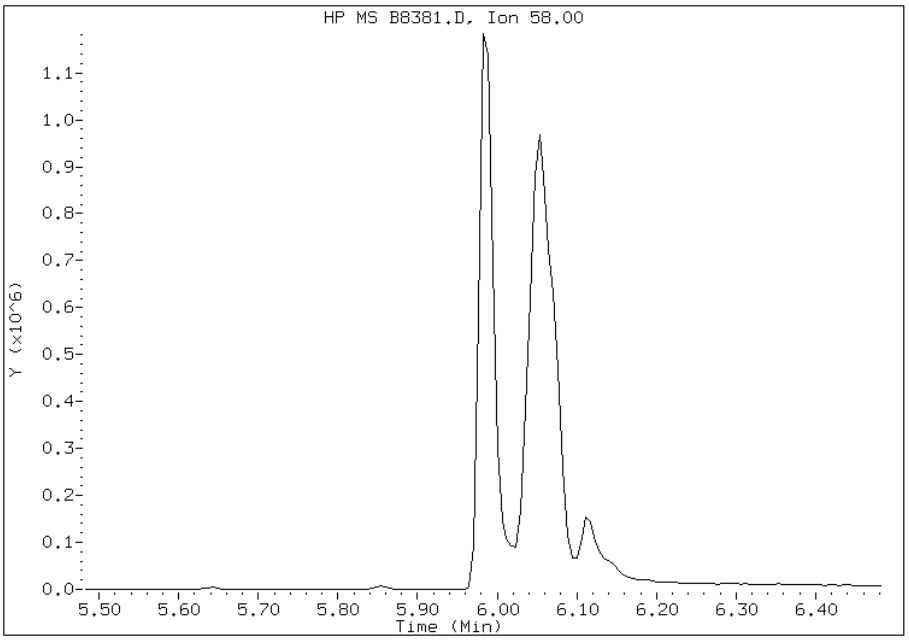
Manual Integration Results

RT: 5.98

Response: 4193937

Amount: 201

Conc: 201



Manually Integrated By: kiekeld
Modification Date: 08-Dec-2011 16:00
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100158

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2011 09:20 Calibration End Date: 12/15/2011 11:36 Calibration ID: 8074

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD004 280-100158/3	B8467.D
Level 2	STD010 280-100158/4	B8468.D
Level 3	STD020 280-100158/5	B8469.D
Level 4	STD050 280-100158/6	B8470.D
Level 5	ICIS 280-100158/2	B8466.D
Level 6	STD120 280-100158/7	B8471.D
Level 7	STD160 280-100158/8	B8472.D
Level 8	STD200 280-100158/9	B8473.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.6649 0.5794	0.6259 0.5776	0.5898 0.5712	0.5793	0.5922	Ave		0.5975				5.4		15.0			
N-Nitrosodimethylamine	+++++ 0.8984	0.8922 0.9010	0.9003 0.8873	0.8934	0.9183	Ave		0.8987				1.1		15.0			
Pyridine	+++++ 1.5795	1.5800 1.5539	1.5763 1.5497	1.5855	1.6185	Ave		1.5776				1.4		15.0			
Phenol	+++++ 1.7249	1.8371 1.7065	1.8281 1.6650	1.7900	1.7986	Ave		1.7643				3.7		15.0			
Aniline	+++++ 2.0819	2.1735 2.0714	2.1592 2.0251	2.1406	2.1831	Ave		2.1193				2.8		15.0			
Bis(2-chloroethyl)ether	+++++ 1.3125	1.4373 1.2729	1.4092 1.2516	1.3586	1.3810	Ave		1.3461				5.2		15.0			
2-Chlorophenol	+++++ 1.4233	1.5136 1.3876	1.4814 1.3469	1.4540	1.4772	Ave		1.4406				4.0		15.0			
1,3-Dichlorobenzene	1.7692 1.6334	1.7375 1.5935	1.7235 1.5430	1.6849	1.6801	Ave		1.6706				4.6		15.0			
1,4-Dichlorobenzene	1.7561 1.6506	1.7839 1.6041	1.7291 1.5632	1.6973	1.7237	Ave		1.6885				4.5		15.0			
Benzyl alcohol	+++++ 0.9584	0.9380 0.9484	0.9277 0.9410	0.9409	0.9848	Ave		0.9485				2.0		15.0			
1,2-Dichlorobenzene	1.6360 1.5367	1.6831 1.5110	1.6342 1.4510	1.6006	1.6152	Ave		1.5835				4.9		15.0			
2-Methylphenol	+++++ 1.3419	1.3566 1.3283	1.3769 1.2986	1.3694	1.3771	Ave		1.3498				2.2		15.0			
2,2'-oxybis[1-chloropropane]	+++++ 1.5930	1.7053 1.5734	1.6515 1.5433	1.6267	1.6621	Ave		1.6222				3.5		15.0			
3 & 4 Methylphenol	+++++ 1.3981	1.4269 1.3632	1.4332 1.3430	1.4155	1.4346	Ave		1.4021				2.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100158

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2011 09:20 Calibration End Date: 12/15/2011 11:36 Calibration ID: 8074

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
4-Methylphenol	+++++ 1.3981	1.4269 1.3632	1.4332 1.3430	1.4155	1.4346	Ave		1.4021				2.6		15.0			
N-Nitrosodi-n-propylamine	+++++ 0.9631	0.9730 0.9478	0.9835 0.9363	0.9637	0.9871	Ave		0.9649			0.0500	1.9		15.0			
Acetophenone	+++++ 1.8989	2.0479 1.8594	1.9849 1.8078	1.9655	1.9867	Ave		1.9359				4.3		15.0			
Hexachloroethane	0.6339 0.6334	0.6346 0.6279	0.6415 0.6108	0.6344	0.6446	Ave		0.6327				1.6		15.0			
Nitrobenzene	+++++ 0.3712	0.3858 0.3628	0.3740 0.3527	0.3760	0.3797	Ave		0.3718				3.0		15.0			
Isophorone	+++++ 0.6325	0.6165 0.6259	0.6339 0.6153	0.6435	0.6484	Ave		0.6308				2.0		15.0			
2-Nitrophenol	+++++ 0.1909	0.1697 0.1872	0.1845 0.1846	0.1936	0.1912	Ave		0.1860				4.3		15.0			
2,4-Dimethylphenol	+++++ 0.3411	0.3618 0.3313	0.3566 0.3199	0.3510	0.3484	Ave		0.3443				4.3		15.0			
Benzoic acid	+++++ 0.1954	+++++ 0.2017	0.1511 0.2091	0.1882	0.1875	Ave		0.1888				10.7		15.0			
Bis(2-chloroethoxy)methane	+++++ 0.4023	0.4148 0.3947	0.4201 0.3821	0.4151	0.4093	Ave		0.4055				3.3		15.0			
2,4-Dichlorophenol	+++++ 0.3027	0.2989 0.2920	0.2999 0.2830	0.3046	0.3007	Ave		0.2974				2.5		15.0			
1,2,4-Trichlorobenzene	0.3678 0.3426	0.3683 0.3317	0.3563 0.3213	0.3533	0.3474	Ave		0.3486				4.7		15.0			
Naphthalene	1.1486 1.0083	1.1400 0.9624	1.1133 0.9237	1.0810	1.0450	Ave		1.0528				7.9		15.0			
4-Chloroaniline	+++++ 0.4367	0.4626 0.4247	0.4564 0.4157	0.4507	0.4436	Ave		0.4415				3.8		15.0			
Hexachlorobutadiene	+++++ 0.1954	0.2028 0.1941	0.1988 0.1915	0.2014	0.1986	Ave		0.1975				2.0		15.0			
Caprolactam	+++++ 0.1163	0.1078 0.1154	0.1177 0.1160	0.1264	0.1160	Ave		0.1165				4.6		15.0			
4-Chloro-3-methylphenol	+++++ 0.3033	0.2961 0.2948	0.3037 0.2918	0.3052	0.3061	Ave		0.3002				1.9		15.0			
2-Methylnaphthalene	0.7846 0.6992	0.7674 0.6730	0.7546 0.6377	0.7430	0.7212	Ave		0.7226				6.9		15.0			
1-Methylnaphthalene	0.7238 0.6527	0.7320 0.6391	0.7177 0.6138	0.6985	0.6763	Ave		0.6817				6.4		15.0			
Hexachlorocyclopentadiene	+++++ 0.3559	0.2977 0.3482	0.3143 0.3487	0.3390	0.3361	Lin2	0.0409	0.3509			0.0500				0.9995		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100158

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2011 09:20 Calibration End Date: 12/15/2011 11:36 Calibration ID: 8074

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2,4,6-Trichlorophenol	+++++ 0.3559	0.3479 0.3469	0.3507 0.3430	0.3657	0.3658	Ave		0.3537				2.6		15.0			
2,4,5-Trichlorophenol	+++++ 0.3912	0.3917 0.3895	0.3948 0.3884	0.4104	0.3975	Ave		0.3948				1.9		15.0			
2-Chloronaphthalene	1.1946 1.0798	1.2009 1.0303	1.1489 1.0028	1.1365	1.1169	Ave		1.1138				6.5		15.0			
2-Nitroaniline	+++++ 0.3132	0.2787 0.3027	0.2941 0.3026	0.3096	0.3148	Ave		0.3022				4.2		15.0			
Dimethyl phthalate	1.3456 1.2143	1.3100 1.1663	1.2910 1.1545	1.2712	1.2577	Ave		1.2513				5.4		15.0			
2,6-Dinitrotoluene	+++++ 0.3089	0.3034 0.2969	0.3072 0.3317	0.3163	0.3151	Ave		0.3114				3.6		15.0			
Acenaphthylene	1.8151 1.6835	1.8436 1.5816	1.8274 1.5328	1.8040	1.7633	Ave		1.7314				6.9		15.0			
3-Nitroaniline	+++++ 0.3487	0.3294 0.3422	0.3405 0.3376	0.3542	0.3515	Ave		0.3435				2.5		15.0			
Acenaphthene	1.2476 1.0823	1.2173 1.0262	1.1893 1.0009	1.1580	1.1337	Ave		1.1319				7.9		15.0			
2,4-Dinitrophenol	+++++ 0.1840	+++++ 0.1891	0.1191 0.1930	0.1566	0.1741	Lin2	0.2052	0.1969			0.0500				0.9990		0.9900
4-Nitrophenol	+++++ 0.1862	0.1604 0.1818	0.1712 0.1798	0.1841	0.1837	Ave		0.1782			0.0500	5.2		15.0			
2,4-Dinitrotoluene	+++++ 0.4041	0.3687 0.3930	0.3832 0.3878	0.4030	0.4058	Ave		0.3922				3.4		15.0			
Dibenzofuran	1.7455 1.5117	1.7305 1.4442	1.6778 1.3910	1.6330	1.5917	Ave		1.5907				8.2		15.0			
Diethyl phthalate	1.2966 1.1986	1.3264 1.1449	1.2714 1.1079	1.2789	1.2545	Ave		1.2349				6.2		15.0			
4-Chlorophenyl phenyl ether	+++++ 0.6216	0.6795 0.6095	0.6640 0.5991	0.6532	0.6414	Ave		0.6383				4.6		15.0			
Fluorene	1.4724 1.2783	1.4808 1.2195	1.4199 1.1824	1.3818	1.3469	Ave		1.3478				8.3		15.0			
4-Nitroaniline	+++++ 0.3424	0.3166 0.3358	0.3349 0.3289	0.3471	0.3597	Ave		0.3379				4.1		15.0			
4,6-Dinitro-2-methylphenol	+++++ 0.1464	+++++ 0.1437	0.1168 0.1475	0.1358	0.1425	Ave		0.1388				8.3		15.0			
N-Nitrosodiphenylamine	+++++ 0.6279	0.6853 0.5976	0.6829 0.5833	0.6824	0.6628	Ave		0.6460				6.7		15.0			
1,2-Diphenylhydrazine	1.2196 1.1978	1.3186 1.1408	1.3043 1.1104	1.2709	1.2410	Ave		1.2254				6.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100158

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2011 09:20 Calibration End Date: 12/15/2011 11:36 Calibration ID: 8074

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
4-Bromophenyl phenyl ether	+++++ 0.2231	0.2302 0.2165	0.2269 0.2200	0.2281	0.2254	Ave		0.2243				2.1		15.0			
Hexachlorobenzene	+++++ 0.2395	0.2388 0.2360	0.2394 0.2373	0.2417	0.2422	Ave		0.2393				0.9		15.0			
Atrazine	+++++ 0.2032	0.2036 0.1949	0.2100 0.1906	0.2167	0.2109	Ave		0.2043				4.5		15.0			
Pentachlorophenol	+++++ 0.1569	+++++ 0.1564	0.1338 0.1596	0.1504	0.1603	Ave		0.1529				6.5		15.0			
Phenanthrene	1.2688 1.0457	1.1946 0.9820	1.1645 0.9402	1.1388	1.1130	Ave		1.1060				10.0		15.0			
Anthracene	1.1735 1.0587	1.1803 0.9864	1.1632 0.9553	1.1546	1.1288	Ave		1.1001				8.1		15.0			
Carbazole	1.1189 0.9957	1.1186 0.9465	1.1141 0.9115	1.0891	1.0756	Ave		1.0462				8.0		15.0			
Di-n-butyl phthalate	1.1315 1.1427	1.1858 1.0701	1.2265 1.0407	1.2345	1.2260	Ave		1.1572				6.4		15.0			
Fluoranthene	1.2603 1.1626	1.2605 1.0764	1.2535 1.0482	1.2462	1.2249	Ave		1.1916				7.2		15.0			
Benzidine	+++++ 0.6208	+++++ 0.5943	0.4477 0.5875	0.5781	0.6059	Ave		0.5724				11.0		15.0			
Pyrene	1.2491 1.1085	1.2603 1.0595	1.2219 1.0053	1.2148	1.1733	Ave		1.1616				8.1		15.0			
Famphur	0.3621 0.3886	0.4070 0.3499	0.4194 0.3221	0.4307	0.4233	Ave		0.3879				10.2		15.0			
Butyl benzyl phthalate	0.4894 0.4783	0.5154 0.4607	0.5162 0.4456	0.5265	0.5082	Ave		0.4925				5.9		15.0			
Bis(2-ethylhexyl) phthalate	0.5138 0.6856	0.5679 0.6661	0.6155 0.6538	0.6933	0.7042	Ave		0.6375				10.5		15.0			
3,3'-Dichlorobenzidine	+++++ 0.3940	0.3264 0.3865	0.3539 0.3894	0.3860	0.3989	Ave		0.3765				7.0		15.0			
Benzo[a]anthracene	1.1272 1.0966	1.1446 1.0450	1.1451 1.0134	1.1468	1.1289	Ave		1.1059				4.6		15.0			
Chrysene	1.2037 1.0183	1.1756 1.0192	1.1294 0.9613	1.1353	1.0979	Ave		1.0926				7.8		15.0			
Di-n-octyl phthalate	0.7240 1.1498	0.8697 1.1149	0.9984 1.0921	1.1455	1.1677	Lin2	0.0397	1.1367							0.9973		0.9900
Benzo[b]fluoranthene	1.0691 1.2511	1.2191 1.1963	1.2844 1.2000	1.2495	1.3156	Ave		1.2231				6.1		15.0			
Benzo[k]fluoranthene	1.3909 1.2455	1.2994 1.2553	1.2697 1.2101	1.2957	1.2274	Ave		1.2743				4.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100158

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2011 09:20 Calibration End Date: 12/15/2011 11:36 Calibration ID: 8074

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Benzo[a]pyrene	1.0107 1.1325	1.0521 1.1194	1.1354 1.0936	1.1434	1.1530	Ave		1.1050				4.5		15.0			
Dibenz(a,h)anthracene	0.9409 1.0866	0.9653 1.0785	1.0002 1.0674	1.0723	1.0781	Ave		1.0362				5.6		15.0			
Indeno[1,2,3-cd]pyrene	1.0381 1.2013	1.0661 1.1981	1.1025 1.2009	1.2013	1.2034	Ave		1.1514				6.1		15.0			
Benzo[g,h,i]perylene	1.0021 1.1078	1.0336 1.1020	1.0430 1.0962	1.0943	1.1213	Ave		1.0750				4.0		15.0			
2-Fluorophenol (Surr)	+++++ 1.3947	1.4501 1.3800	1.4212 1.3526	1.4286	1.4484	Ave		1.4108				2.6		15.0			
Phenol-d5 (Surr)	+++++ 1.6849	1.7892 1.6478	1.7657 1.6056	1.7443	1.7672	Ave		1.7149				4.1		15.0			
Nitrobenzene-d5 (Surr)	+++++ 0.3778	0.3683 0.3726	0.3747 0.3633	0.3820	0.3801	Ave		0.3741				1.8		15.0			
2-Fluorobiphenyl	+++++ 1.2268	1.3754 1.1722	1.3389 1.1555	1.3113	1.2864	Ave		1.2667				6.6		15.0			
2,4,6-Tribromophenol (Surr)	0.1610 0.2206	0.1848 0.2216	0.1967 0.2262	0.2063	0.2164	Ave		0.2042				11.0		15.0			
Terphenyl-d14 (Surr)	+++++ 0.7595	0.8179 0.7467	0.7824 0.7202	0.7937	0.7819	Ave		0.7718				4.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100158

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2011 09:20 Calibration End Date: 12/15/2011 11:36 Calibration ID: 8074

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD004 280-100158/3	B8467.D
Level 2	STD010 280-100158/4	B8468.D
Level 3	STD020 280-100158/5	B8469.D
Level 4	STD050 280-100158/6	B8470.D
Level 5	ICIS 280-100158/2	B8466.D
Level 6	STD120 280-100158/7	B8471.D
Level 7	STD160 280-100158/8	B8472.D
Level 8	STD200 280-100158/9	B8473.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCB	Ave	20832 527731	47285 704991	89920 859158	224604	359206	4.00 120	10.0 160	20.0 200	50.0	80.0
N-Nitrosodimethylamine	DCB	Ave	+++++ 818312	67397 1099752	137245 1334670	346363	557038	+++++ 120	10.0 160	20.0 200	50.0	80.0
Pyridine	DCB	Ave	+++++ 1438741	119356 1896595	240300 2330963	614693	981769	+++++ 120	10.0 160	20.0 200	50.0	80.0
Phenol	DCB	Ave	+++++ 1571141	138783 2082864	278687 2504506	693993	1091064	+++++ 120	10.0 160	20.0 200	50.0	80.0
Aniline	DCB	Ave	+++++ 1896386	164192 2528273	329170 3046097	829936	1324278	+++++ 120	10.0 160	20.0 200	50.0	80.0
Bis(2-chloroethyl)ether	DCB	Ave	+++++ 1195495	108577 1553619	214825 1882575	526735	837697	+++++ 120	10.0 160	20.0 200	50.0	80.0
2-Chlorophenol	DCB	Ave	+++++ 1296416	114343 1693692	225830 2026009	563730	896059	+++++ 120	10.0 160	20.0 200	50.0	80.0
1,3-Dichlorobenzene	DCB	Ave	55435 1487795	131254 1944997	262737 2320879	653235	1019134	4.00 120	10.0 160	20.0 200	50.0	80.0
1,4-Dichlorobenzene	DCB	Ave	55024 1503487	134762 1957911	263595 2351366	658066	1045579	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzyl alcohol	DCB	Ave	+++++ 872972	70857 1157540	141430 1415409	364812	597390	+++++ 120	10.0 160	20.0 200	50.0	80.0
1,2-Dichlorobenzene	DCB	Ave	51261 1399737	127149 1844260	249135 2182587	620575	979779	4.00 120	10.0 160	20.0 200	50.0	80.0
2-Methylphenol	DCB	Ave	+++++ 1222270	102482 1621259	209900 1953262	530915	835327	+++++ 120	10.0 160	20.0 200	50.0	80.0
2,2'-oxybis[1-chloropropane]	DCB	Ave	+++++ 1451004	128822 1920458	251774 2321451	630701	1008261	+++++ 120	10.0 160	20.0 200	50.0	80.0
3 & 4 Methylphenol	DCB	Ave	+++++ 1273490	107795 1663820	218485 2020183	548813	870251	+++++ 120	10.0 160	20.0 200	50.0	80.0
4-Methylphenol	DCB	Ave	+++++ 1273490	107795 1663820	218485 2020183	548813	870251	+++++ 120	10.0 160	20.0 200	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100158

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2011 09:20 Calibration End Date: 12/15/2011 11:36 Calibration ID: 8074

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
N-Nitrosodi-n-propylamine	DCB	Ave	+++++ 877226	73503 1156881	149935 1408388	373648	598798	+++++ 120	10.0 160	20.0 200	50.0	80.0
Acetophenone	DCB	Ave	+++++ 1729675	154703 2269550	302588 2719196	762028	1205109	+++++ 120	10.0 160	20.0 200	50.0	80.0
Hexachloroethane	DCB	Ave	19863 576991	47942 766388	97802 918727	245959	391032	4.00 120	10.0 160	20.0 200	50.0	80.0
Nitrobenzene	NPT	Ave	+++++ 1333085	115351 1756357	225516 2109102	569753	921757	+++++ 120	10.0 160	20.0 200	50.0	80.0
Isophorone	NPT	Ave	+++++ 2271042	184323 3030052	382273 3679675	975007	1573887	+++++ 120	10.0 160	20.0 200	50.0	80.0
2-Nitrophenol	NPT	Ave	+++++ 685663	50726 906074	111291 1104079	293420	464188	+++++ 120	10.0 160	20.0 200	50.0	80.0
2,4-Dimethylphenol	NPT	Ave	+++++ 1224993	108179 1603844	215023 1912933	531792	845681	+++++ 120	10.0 160	20.0 200	50.0	80.0
Benzoic acid	NPT	Ave	+++++ 701776	+++++ 976520	91137 1250291	285223	455120	+++++ 120	+++++ 160	20.0 200	50.0	80.0
Bis(2-chloroethoxy)methane	NPT	Ave	+++++ 1444564	124017 1910563	253344 2285378	628981	993648	+++++ 120	10.0 160	20.0 200	50.0	80.0
2,4-Dichlorophenol	NPT	Ave	+++++ 1086811	89376 1413565	180857 1692554	461544	729909	+++++ 120	10.0 160	20.0 200	50.0	80.0
1,2,4-Trichlorobenzene	NPT	Ave	44898 1230342	110101 1605611	214893 1921471	535365	843189	4.00 120	10.0 160	20.0 200	50.0	80.0
Naphthalene	NPT	Ave	140224 3620492	340823 4659113	671385 5524081	1637912	2536691	4.00 120	10.0 160	20.0 200	50.0	80.0
4-Chloroaniline	NPT	Ave	+++++ 1568257	138317 2055811	275257 2485991	682881	1076675	+++++ 120	10.0 160	20.0 200	50.0	80.0
Hexachlorobutadiene	NPT	Ave	+++++ 701543	60619 939524	119868 1145239	305096	482036	+++++ 120	10.0 160	20.0 200	50.0	80.0
Caprolactam	NPT	Ave	+++++ 417760	32240 558568	70976 693741	191452	281615	+++++ 120	10.0 160	20.0 200	50.0	80.0
4-Chloro-3-methylphenol	NPT	Ave	+++++ 1089240	88534 1427139	183156 1745013	462479	743056	+++++ 120	10.0 160	20.0 200	50.0	80.0
2-Methylnaphthalene	NPT	Ave	95791 2510853	229434 3257987	455070 3813847	1125767	1750538	4.00 120	10.0 160	20.0 200	50.0	80.0
1-Methylnaphthalene	NPT	Ave	88364 2343781	218848 3094122	432788 3670849	1058306	1641721	4.00 120	10.0 160	20.0 200	50.0	80.0
Hexachlorocyclopentadiene	ANT	Lin2	+++++ 757610	52126 1009505	111790 1239443	301352	477134	+++++ 120	10.0 160	20.0 200	50.0	80.0
2,4,6-Trichlorophenol	ANT	Ave	+++++ 757686	60922 1005783	124733 1219001	325133	519361	+++++ 120	10.0 160	20.0 200	50.0	80.0
2,4,5-Trichlorophenol	ANT	Ave	+++++ 832770	68597 1129317	140400 1380500	364851	564369	+++++ 120	10.0 160	20.0 200	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100158

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2011 09:20 Calibration End Date: 12/15/2011 11:36 Calibration ID: 8074

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Chloronaphthalene	ANT	Ave	86164 2298796	210299 2986865	408614 3564116	1010346	1585819	4.00 120	10.0 160	20.0 200	50.0	80.0
2-Nitroaniline	ANT	Ave	+++++ 666743	48811 877468	104584 1075383	275268	446893	+++++ 120	10.0 160	20.0 200	50.0	80.0
Dimethyl phthalate	ANT	Ave	97057 2585267	229402 3381284	459140 4103580	1130093	1785620	4.00 120	10.0 160	20.0 200	50.0	80.0
2,6-Dinitrotoluene	ANT	Ave	+++++ 657543	53125 860765	109252 1061052	281225	447431	+++++ 120	10.0 160	20.0 180	50.0	80.0
Acenaphthylene	ANT	Ave	130923 3584108	322847 4585205	649918 5448058	1603761	2503549	4.00 120	10.0 160	20.0 200	50.0	80.0
3-Nitroaniline	ANT	Ave	+++++ 742304	57690 992147	121110 1199818	314928	499129	+++++ 120	10.0 160	20.0 200	50.0	80.0
Acenaphthene	ANT	Ave	89990 2304203	213169 2975130	422969 3557490	1029484	1609601	4.00 120	10.0 160	20.0 200	50.0	80.0
2,4-Dinitrophenol	ANT	Lin2	+++++ 391673	+++++ 548190	42370 685988	139223	247240	+++++ 120	+++++ 160	20.0 200	50.0	80.0
4-Nitrophenol	ANT	Ave	+++++ 396455	28095 526961	60903 639079	163647	260839	+++++ 120	10.0 160	20.0 200	50.0	80.0
2,4-Dinitrotoluene	ANT	Ave	+++++ 860374	64561 1139454	136277 1378508	358245	576140	+++++ 120	10.0 160	20.0 200	50.0	80.0
Dibenzofuran	ANT	Ave	125902 3218399	303032 4186828	596716 4943934	1451819	2259915	4.00 120	10.0 160	20.0 200	50.0	80.0
Diethyl phthalate	ANT	Ave	93520 2551811	232272 3319126	452178 3937956	1136969	1781107	4.00 120	10.0 160	20.0 200	50.0	80.0
4-Chlorophenyl phenyl ether	ANT	Ave	+++++ 1323333	118996 1767115	236135 2129410	580696	910665	+++++ 120	10.0 160	20.0 200	50.0	80.0
Fluorene	ANT	Ave	106202 2721460	259315 3535545	505000 4202673	1228475	1912370	4.00 120	10.0 160	20.0 200	50.0	80.0
4-Nitroaniline	ANT	Ave	+++++ 729038	55447 973506	119092 1169074	308562	510729	+++++ 120	10.0 160	20.0 200	50.0	80.0
4,6-Dinitro-2-methylphenol	PHN	Ave	+++++ 528900	+++++ 709936	70785 891033	204828	341233	+++++ 120	+++++ 160	20.0 200	50.0	80.0
N-Nitrosodiphenylamine	PHN	Ave	+++++ 2268881	206481 2952606	413719 3524439	1029246	1587588	+++++ 120	10.0 160	20.0 200	50.0	80.0
1,2-Diphenylhydrazine	ANT	Ave	88932 2578079	233448 3343436	468960 3990110	1142263	1781366	4.04 121	10.1 162	20.2 202	50.5	80.9
4-Bromophenyl phenyl ether	PHN	Ave	+++++ 806286	69368 1069648	137474 1329144	343947	540001	+++++ 120	10.0 160	20.0 200	50.0	80.0
Hexachlorobenzene	PHN	Ave	+++++ 865574	71950 1165994	145019 1433968	364462	580106	+++++ 120	10.0 160	20.0 200	50.0	80.0
Atrazine	PHN	Ave	+++++ 734354	61353 963005	127229 1151358	326889	505270	+++++ 120	10.0 160	20.0 200	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100158

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2011 09:20 Calibration End Date: 12/15/2011 11:36 Calibration ID: 8074

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Pentachlorophenol	PHN	Ave	+++++ 566926	+++++ 772759	81078 964533	226767	384042	+++++ 120	+++++ 160	20.0 200	50.0	80.0
Phenanthrene	PHN	Ave	153337 3778490	359961 4852403	705516 5680588	1717520	2666247	4.00 120	10.0 160	20.0 200	50.0	80.0
Anthracene	PHN	Ave	141815 3825620	355638 4874114	704749 5771557	1741347	2703966	4.00 120	10.0 160	20.0 200	50.0	80.0
Carbazole	PHN	Ave	135216 3597958	337048 4676623	674997 5506972	1642586	2576534	4.00 120	10.0 160	20.0 200	50.0	80.0
Di-n-butyl phthalate	PHN	Ave	136745 4128973	357318 5287648	743069 6287683	1861827	2936896	4.00 120	10.0 160	20.0 200	50.0	80.0
Fluoranthene	PHN	Ave	152310 4200909	379814 5318811	759475 6332959	1879482	2934272	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzidine	CRY	Ave	+++++ 2403217	+++++ 3078474	292853 3753153	927550	1565989	+++++ 120	+++++ 160	20.0 200	50.0	80.0
Pyrene	CRY	Ave	164008 4291081	404110 5488609	799195 6422577	1949269	3032295	4.00 120	10.0 160	20.0 200	50.0	80.0
Famphur	CRY	Ave	47544 1504277	130500 1812388	274331 2057658	691123	1093972	4.00 120	10.0 160	20.0 200	50.0	80.0
Butyl benzyl phthalate	CRY	Ave	64252 1851686	165259 2386331	337629 2846964	844879	1313424	4.00 120	10.0 160	20.0 200	50.0	80.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	67465 2654036	182088 3450718	402586 4176524	1112474	1820019	4.00 120	10.0 160	20.0 200	50.0	80.0
3,3'-Dichlorobenzidine	CRY	Ave	+++++ 1525377	104666 2002263	231500 2487531	619360	1030811	+++++ 120	10.0 160	20.0 200	50.0	80.0
Benzo[a]anthracene	CRY	Ave	147997 4244903	367007 5413183	748947 6474048	1840128	2917562	4.00 120	10.0 160	20.0 200	50.0	80.0
Chrysene	CRY	Ave	158048 3942113	376945 5279648	738700 6141410	1821587	2837372	4.00 120	10.0 160	20.0 200	50.0	80.0
Di-n-octyl phthalate	CRY	Lin2	95057 4451019	278860 5775501	652984 6976855	1838077	3017840	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzo[b]fluoranthene	PRY	Ave	125717 4402796	350027 5643237	752083 7031237	1842809	3084619	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzo[k]fluoranthene	PRY	Ave	163557 4383158	373075 5921450	743504 7090926	1910942	2877743	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzo[a]pyrene	PRY	Ave	118850 3985421	302063 5280205	664863 6408328	1686370	2703391	4.00 120	10.0 160	20.0 200	50.0	80.0
Dibenz(a,h)anthracene	PRY	Ave	110644 3823996	277142 5087319	585675 6254524	1581550	2527644	4.00 120	10.0 160	20.0 200	50.0	80.0
Indeno[1,2,3-cd]pyrene	CRY	Ave	136300 4650396	341842 6206264	721085 7671853	1927490	3109960	4.00 120	10.0 160	20.0 200	50.0	80.0
Benzo[g,h,i]perylene	PRY	Ave	117835 3898547	296748 5198418	610730 6423462	1614014	2629004	4.00 120	10.0 160	20.0 200	50.0	80.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23566-1 Analy Batch No.: 100158

SDG No.:

Instrument ID: MSS_B GC Column: Vf-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2011 09:20 Calibration End Date: 12/15/2011 11:36 Calibration ID: 8074

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Fluorophenol (Surr)	DCB	Ave	+++++ 1905628	164317 2526659	324998 3051871	830837	1317895	+++++ 180	15.0 240	30.0 300	75.0	120
Phenol-d5 (Surr)	DCB	Ave	+++++ 2302058	202740 3016950	403754 3622574	1014447	1607964	+++++ 180	15.0 240	30.0 300	75.0	120
Nitrobenzene-d5 (Surr)	NPT	Ave	+++++ 1356656	110101 1803657	225955 2172544	578875	922535	+++++ 120	10.0 160	20.0 200	50.0	80.0
2-Fluorobiphenyl	ANT	Ave	+++++ 2611906	240851 3398422	476179 4107031	1165799	1826380	+++++ 120	10.0 160	20.0 200	50.0	80.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	17417 704474	48534 963761	104950 1205830	275092	460876	6.00 180	15.0 240	30.0 300	75.0	120
Terphenyl-d14 (Surr)	CRY	Ave	+++++ 2940093	262238 3868089	511720 4601254	1273544	2020706	+++++ 120	10.0 160	20.0 200	50.0	80.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\121511.B\B8466.D
Lab Smp Id: ICIS-1148423 Client Smp ID: MS-HSL080_00014
Inj Date : 15-DEC-2011 09:20
Operator : KIEKELD Inst ID: B.i
Smp Info : ICIS-1148423,,MS-HSL080_00014
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\121511.B\8270C.m
Meth Date : 15-Dec-2011 13:28 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 16:36 Cal File: B8381.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	26 1,4-Dichlorobenzene-d4	152	4.924	4.924	(1.000)	303301	40.0000	
*	58 Naphthalene-d8	136	6.169	6.169	(1.000)	1213701	40.0000	
*	96 Acenaphthene-d10	164	7.896	7.896	(1.000)	709898	40.0000	
*	135 Phenanthrene-d10	188	9.171	9.171	(1.000)	1197723	40.0000	
*	166 Chrysene-d12	240	11.310	11.310	(1.000)	1292191	40.0000	
*	179 Perylene-d12	264	12.626	12.626	(1.000)	1172320	40.0000	
$	22 2-Chlorophenol-d4	132	4.706	4.706	(0.956)	1358443	120.000	124.648
$	29 1,2-Dichlorobenzene-d4	152	5.076	5.076	(1.031)	624425	80.0000	82.2384
$	8 2-Fluorophenol	112	3.696	3.696	(0.751)	1317895	120.000	123.195
$	15 Phenol-d5	99	4.536	4.536	(0.921)	1607964	120.000	123.655
$	43 Nitrobenzene-d5	82	5.458	5.458	(0.885)	922535	80.0000	81.2723
$	81 2-Fluorobiphenyl	172	7.233	7.233	(0.916)	1826380	80.0000	81.2452
$	118 2,4,6-Tribromophenol	330	8.596	8.596	(1.089)	460876	120.000	127.175
$	154 Terphenyl-d14	244	10.411	10.411	(0.921)	2020706	80.0000	81.0511
	4 1,4-Dioxane	88	2.274	2.274	(0.462)	359206	80.0000	79.2808
	5 N-Nitrosodimethylamine	74	2.532	2.532	(0.514)	557038	80.0000	81.7452
	6 Pyridine	79	2.573	2.573	(0.523)	981769	80.0000	82.0724
	16 Phenol	94	4.547	4.547	(0.924)	1091064	80.0000	81.5565
	18 Aniline	93	4.612	4.612	(0.937)	1324278	80.0000	82.4098
	19 Methyl Styrene	118	4.641	4.641	(0.943)	918796	80.0000	82.9016
	20 Bis(2-chloroethyl) ether	93	4.653	4.653	(0.945)	837697	80.0000	82.0702
	21 Decane	43	4.706	4.706	(0.956)	668837	80.0000	81.7729

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
23	2-Chlorophenol	128	4.724	4.724	(0.959)	896059	80.0000	82.0330
25	1,3-Dichlorobenzene	146	4.871	4.871	(0.989)	1019134	80.0000	80.4525
27	1,4-Dichlorobenzene	146	4.941	4.941	(1.004)	1045579	80.0000	81.6658
28	Benzyl alcohol	108	5.041	5.041	(1.024)	597390	80.0000	83.0666
30	1,2-Dichlorobenzene	146	5.088	5.088	(1.033)	979779	80.0000	81.6016
32	2-Methylphenol	108	5.129	5.129	(1.042)	835327	80.0000	81.6155
34	2,2'-oxybis(1-chloropropane)	45	5.153	5.153	(1.047)	1008261	80.0000	81.9696
35	1H-Indene	116	5.170	5.170	(1.050)	1382797	80.0000	82.3945
138	3-Methylphenol	108	5.276	5.276	(1.072)	870251	80.0000	81.8572
36	4-Methylphenol	108	5.276	5.276	(1.072)	870251	80.0000	81.8572
139	3 & 4-Methylphenol	108	5.276	5.276	(1.072)	870251	80.0000	81.8572
37	N-nitrosodi-n-propylamine	70	5.282	5.282	(1.073)	598798	80.0000	81.8400
38	Acetophenone	105	5.300	5.300	(1.076)	1205109	80.0000	82.0993
41	Hexachloroethane	117	5.411	5.411	(1.099)	391032	80.0000	81.5134
44	Nitrobenzene	77	5.482	5.482	(0.889)	921757	80.0000	81.7172
47	Isophorone	82	5.693	5.693	(0.923)	1573887	80.0000	82.2238
50	2,4-Dimethylphenol	107	5.793	5.793	(0.939)	845681	80.0000	80.9514
49	2-Nitrophenol	139	5.787	5.787	(0.938)	464188	80.0000	82.2601
53	Benzoic acid	122	5.864	5.864	(0.950)	455120	80.0000	79.4268
52	Bis(2-chloroethoxy)methane	93	5.887	5.887	(0.954)	993648	80.0000	80.7598
54	2,4-Dichlorophenol	162	6.010	6.010	(0.974)	729909	80.0000	80.8856
56	n-Dodecane	43	6.087	6.087	(0.771)	685936	80.0000	81.1174
57	1,2,4-Trichlorobenzene	180	6.104	6.104	(0.990)	843189	80.0000	79.7203
59	Naphthalene	128	6.187	6.187	(1.003)	2536691	80.0000	79.4105
60	4-Chloroaniline	127	6.234	6.234	(1.010)	1076675	80.0000	80.3740
62	Hexachlorobutadiene	225	6.287	6.287	(1.019)	482036	80.0000	80.4434
67	Caprolactam	55	6.580	6.580	(1.067)	281615	80.0000	79.6549(H)
68	4-Chloro-3-methylphenol	107	6.698	6.698	(1.086)	743056	80.0000	81.5869
71	2-Methylnaphthalene	142	6.874	6.874	(1.114)	1750538	80.0000	79.8411
72	1-Methylnaphthalene	142	6.974	6.974	(1.130)	1641721	80.0000	79.3652
74	Hexachlorocyclopentadiene	237	7.021	7.021	(0.889)	477134	80.0000	78.2484
78	2,4,6-Trichlorophenol	196	7.150	7.150	(0.906)	519361	80.0000	82.7359
79	2,3-Dichlorobenzeneamine	161	7.162	7.162	(0.907)	885042	80.0000	81.2100
80	2,4,5-Trichlorophenol	196	7.191	7.191	(0.911)	564369	80.0000	80.5501
83	Tetradecane	43	7.262	7.262	(0.920)	665586	80.0000	81.0657
86	2-Chloronaphthalene	162	7.368	7.368	(0.933)	1585819	80.0000	80.2231
88	2-Nitroaniline	65	7.473	7.473	(0.946)	446893	80.0000	83.3169
91	Dimethyl phthalate	163	7.614	7.614	(0.964)	1785620	80.0000	80.4050
93	2,6-Dinitrotoluene	165	7.691	7.691	(0.974)	447431	80.0000	80.9717
94	Acenaphthylene	152	7.773	7.773	(0.984)	2503549	80.0000	81.4740
95	3-Nitroaniline	138	7.861	7.861	(0.996)	499129	80.0000	81.8841
97	Acenaphthene	153	7.926	7.926	(1.004)	1609601	80.0000	80.1250
98	2,4-Dinitrophenol	184	7.949	7.949	(1.007)	247240	80.0000	78.9566
99	4-Nitrophenol	109	7.991	7.991	(1.012)	260839	80.0000	82.4852
101	2,4-Dinitrotoluene	165	8.061	8.061	(1.021)	576140	80.0000	82.7656
102	Dibenzofuran	168	8.079	8.079	(1.023)	2259915	80.0000	80.0522
105	Hexadecane	57	8.214	8.214	(1.040)	898938	80.0000	81.2035
107	Diethyl phthalate	149	8.243	8.243	(1.044)	1781107	80.0000	81.2686
109	4-Chlorophenyl phenyl ether	204	8.361	8.361	(1.059)	910665	80.0000	80.3855
110	Fluorene	166	8.384	8.384	(1.062)	1912370	80.0000	79.9504
112	4-Nitroaniline	138	8.408	8.408	(1.065)	510729	80.0000	85.1609
113	4,6-Dinitro-2-methylphenol	198	8.419	8.419	(0.918)	341233	80.0000	82.1220
115	N-nitrosodiphenylamine	169	8.466	8.466	(0.923)	1587588	80.0000	82.0730
116	Azobenzene	77	8.502	8.502	(1.077)	1781366	80.0000	81.0194

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
234 1,2-DPH(as Azobenzene)	77	8.502	8.502	(1.077)	1781366	80.8780	81.9086
242 2,4,6 - Tribromophenol	330	8.596	8.596	(1.089)	460876	120.000	127.175
124 4-Bromophenyl phenyl ether	248	8.778	8.778	(0.957)	540001	80.0000	80.3972
125 Hexachlorobenzene	284	8.848	8.848	(0.965)	580106	80.0000	80.9729
127 Atrazine	200	8.889	8.889	(0.969)	505270	80.0000	82.6036
128 n-Octadecane	85	8.972	8.972	(0.978)	435380	80.0000	82.9360
129 Pentachlorophenol	266	9.007	9.007	(0.982)	384042	80.0000	83.8805
136 Phenanthrene	178	9.189	9.189	(1.002)	2666247	80.0000	80.5130
137 Anthracene	178	9.230	9.230	(1.006)	2703966	80.0000	82.0873
140 Carbazole	167	9.359	9.359	(1.020)	2576534	80.0000	82.2451
141 Alachlor	188	9.418	9.418	(1.027)	354709	80.0000	83.1921
143 Di-n-butyl phthalate	149	9.559	9.559	(1.042)	2936896	80.0000	84.7568
144 n-Eicosane	43	9.624	9.624	(1.219)	629349	80.0000	82.0416
149 Fluoranthene	202	10.141	10.141	(1.106)	2934272	80.0000	82.2395
150 n-docosane	43	10.211	10.211	(1.293)	616720	80.0000	82.6232
151 Benzidine	184	10.229	10.229	(0.904)	1565989	80.0000	84.6898
152 Pyrene	202	10.335	10.335	(0.914)	3032295	80.0000	80.8066
158 Famphur	218	10.740	10.740	(0.950)	1093972	80.0000	87.3040
159 Butyl benzyl phthalate	149	10.764	10.764	(0.952)	1313424	80.0000	82.5453
162 Bis(2-ethylhexyl) phthalate	149	11.175	11.175	(0.988)	1820019	80.0000	88.3701
164 3 3'-Dichlorobenzidine	252	11.257	11.257	(0.995)	1030811	80.0000	84.7621
165 Benzo(a)anthracene	228	11.298	11.298	(0.999)	2917562	80.0000	81.6626
167 Chrysene	228	11.334	11.334	(1.002)	2837372	80.0000	80.3882(H)
168 Di-n-octyl phthalate	149	11.686	11.686	(1.033)	3017840	80.0000	83.7718
171 Benzo(b)fluoranthene	252	12.221	12.221	(0.968)	3084619	80.0000	86.0481
172 Benzo(k)fluoranthene	252	12.250	12.250	(0.970)	2877743	80.0000	77.0565(H)
178 Benzo(a)pyrene	252	12.567	12.567	(0.995)	2703391	80.0000	83.4745
185 Dibenz(a,h)anthracene	278	13.948	13.948	(1.105)	2527644	80.0000	83.2344
186 Indeno(1,2,3-cd)pyrene	276	13.948	13.948	(1.233)	3109960	80.0000	83.6074
188 Benzo(g,h,i)perylene	276	14.365	14.365	(1.138)	2629004	80.0000	83.4412

QC Flag Legend

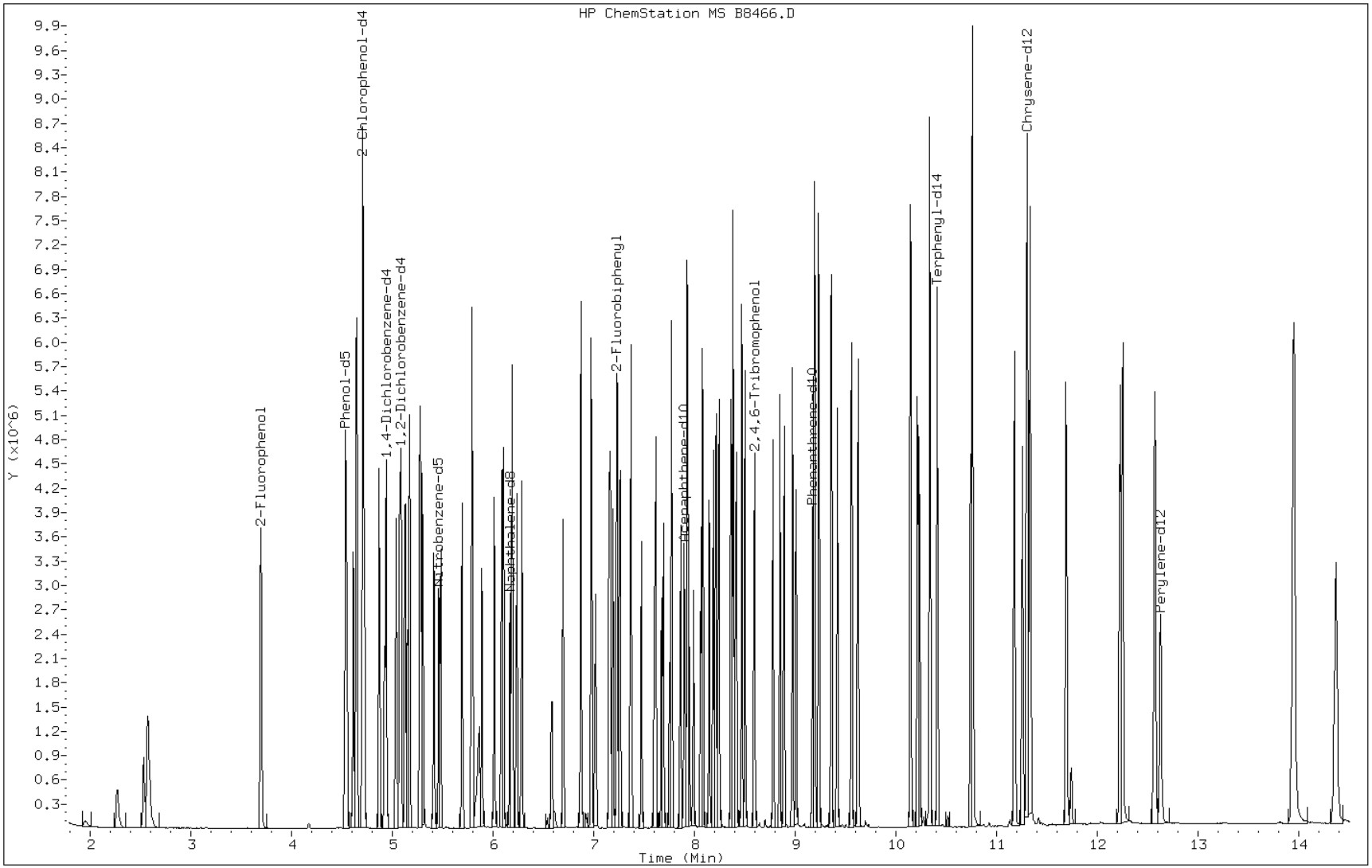
H - Operator selected an alternate compound hit.

Data File: B8466.D

Date: 15-DEC-2011 09:20

Client ID: MS-HSL080_00014 Instrument: B.i

Sample Info: ICIS-1148423,,MS-HSL080_00014 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\121511.B\B8467.D
Lab Smp Id: STD004-1148419 Client Smp ID: MS-HSL004_00014
Inj Date : 15-DEC-2011 09:39
Operator : KIEKELD Inst ID: B.i
Smp Info : STD004-1148419,,MS-HSL004_00014
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\121511.B\8270C.m
Meth Date : 15-Dec-2011 13:28 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 14:38 Cal File: B8375.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.921	4.921	(1.000)	313325	40.0000	
* 58 Naphthalene-d8	136	6.166	6.166	(1.000)	1220844	40.0000	
* 96 Acenaphthene-d10	164	7.894	7.894	(1.000)	721298	40.0000	
* 135 Phenanthrene-d10	188	9.169	9.169	(1.000)	1208518	40.0000	
* 166 Chrysene-d12	240	11.278	11.278	(1.000)	1313002	40.0000	
* 179 Perylene-d12	264	12.594	12.594	(1.000)	1175891	40.0000	
$ 22 2-Chlorophenol-d4	132	4.703	4.703	(0.956)	71806	6.00000	6.37801(a)
$ 29 1,2-Dichlorobenzene-d4	152	5.073	5.073	(1.031)	34017	4.00000	4.33680(a)
$ 8 2-Fluorophenol	112	3.693	3.693	(0.750)	68960	6.00000	6.24007(a)
$ 15 Phenol-d5	99	4.533	4.533	(0.921)	83267	6.00000	6.19850(a)
$ 43 Nitrobenzene-d5	82	5.461	5.461	(0.886)	43152	4.00000	3.77931(a)
$ 81 2-Fluorobiphenyl	172	7.230	7.230	(0.916)	99654	4.00000	4.36297(a)
$ 118 2,4,6-Tribromophenol	330	8.593	8.593	(1.089)	17417	6.00000	4.73012(a)
$ 154 Terphenyl-d14	244	10.391	10.391	(0.921)	105983	4.00000	4.18363(a)
4 1,4-Dioxane	88	2.265	2.265	(0.460)	20832	4.00000	4.45076
5 N-Nitrosodimethylamine	74	2.529	2.529	(0.514)	29172	4.00000	4.14403(a)
6 Pyridine	79	2.576	2.576	(0.524)	49673	4.00000	4.01964(a)
16 Phenol	94	4.545	4.545	(0.924)	57027	4.00000	4.12637(a)
18 Aniline	93	4.609	4.609	(0.937)	66917	4.00000	4.03102(a)
20 Bis(2-chloroethyl) ether	93	4.645	4.645	(0.944)	45304	4.00000	4.29649(a)
21 Decane	43	4.703	4.703	(0.956)	38074	4.00000	4.50605(a)
23 2-Chlorophenol	128	4.721	4.721	(0.959)	47457	4.00000	4.20563(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
25	1,3-Dichlorobenzene	146	4.868	4.868	(0.989)	55435	4.00000	4.23615
27	1,4-Dichlorobenzene	146	4.938	4.938	(1.004)	55024	4.00000	4.16020
28	Benzyl alcohol	108	5.032	5.032	(1.023)	27768	4.00000	3.73759(a)
30	1,2-Dichlorobenzene	146	5.085	5.085	(1.033)	51261	4.00000	4.13272
32	2-Methylphenol	108	5.126	5.126	(1.042)	43236	4.00000	4.08922(a)
34	2,2'-oxybis(1-chloropropane)	45	5.150	5.150	(1.047)	53843	4.00000	4.23729(a)
35	1H-Indene	116	5.167	5.167	(1.050)	71263	4.00000	4.11039(a)
138	3-Methylphenol	108	5.267	5.267	(1.070)	42359	4.00000	3.85688(a)
36	4-Methylphenol	108	5.267	5.267	(1.070)	42359	4.00000	3.85688(a)
139	3 & 4-Methylphenol	108	5.267	5.267	(1.070)	42359	4.00000	3.85688(a)
37	N-nitrosodi-n-propylamine	70	5.279	5.279	(1.073)	27938	4.00000	3.69623(a)
38	Acetophenone	105	5.297	5.297	(1.076)	61423	4.00000	4.05064(a)
41	Hexachloroethane	117	5.414	5.414	(1.100)	19863	4.00000	4.00812(a)
44	Nitrobenzene	77	5.479	5.479	(0.889)	46428	4.00000	4.09193(a)
47	Isophorone	82	5.690	5.690	(0.923)	73798	4.00000	3.83284(a)
50	2,4-Dimethylphenol	107	5.790	5.790	(0.939)	43538	4.00000	4.14322(a)
49	2-Nitrophenol	139	5.790	5.790	(0.939)	20167	4.00000	3.55294(a)
52	Bis(2-chloroethoxy)methane	93	5.890	5.890	(0.955)	52913	4.00000	4.27540(a)
54	2,4-Dichlorophenol	162	6.008	6.008	(0.974)	36166	4.00000	3.98432(a)
56	n-Dodecane	43	6.084	6.084	(0.771)	36918	4.00000	4.29684(a)
57	1,2,4-Trichlorobenzene	180	6.102	6.102	(0.990)	44898	4.00000	4.22010
59	Naphthalene	128	6.190	6.190	(1.004)	140224	4.00000	4.36399
60	4-Chloroaniline	127	6.237	6.237	(1.011)	55283	4.00000	4.10274(a)
62	Hexachlorobutadiene	225	6.284	6.284	(1.019)	25253	4.00000	4.18963(a)
68	4-Chloro-3-methylphenol	107	6.689	6.689	(1.085)	35689	4.00000	3.89569(a)
71	2-Methylnaphthalene	142	6.871	6.871	(1.114)	95791	4.00000	4.34342
72	1-Methylnaphthalene	142	6.971	6.971	(1.131)	88364	4.00000	4.24676
74	Hexachlorocyclopentadiene	237	7.018	7.018	(0.889)	20323	4.00000	4.84602(a)
78	2,4,6-Trichlorophenol	196	7.147	7.147	(0.905)	24039	4.00000	3.76897(a)
79	2,3-Dichlorobenzeneamine	161	7.165	7.165	(0.908)	46109	4.00000	4.16402(a)
80	2,4,5-Trichlorophenol	196	7.189	7.189	(0.911)	27585	4.00000	3.87487(a)
83	Tetradecane	43	7.259	7.259	(0.920)	34008	4.00000	4.07658(a)
86	2-Chloronaphthalene	162	7.365	7.365	(0.933)	86164	4.00000	4.28996
88	2-Nitroaniline	65	7.471	7.471	(0.946)	18271	4.00000	3.35253(a)
91	Dimethyl phthalate	163	7.606	7.606	(0.964)	97057	4.00000	4.30132
93	2,6-Dinitrotoluene	165	7.688	7.688	(0.974)	21324	4.00000	3.79802(a)
94	Acenaphthylene	152	7.770	7.770	(0.984)	130923	4.00000	4.19334
95	3-Nitroaniline	138	7.858	7.858	(0.996)	21409	4.00000	3.45672(a)
97	Acenaphthene	153	7.923	7.923	(1.004)	89990	4.00000	4.40885
99	4-Nitrophenol	109	7.982	7.982	(1.011)	9960	4.00000	3.09988(a)
101	2,4-Dinitrotoluene	165	8.058	8.058	(1.021)	22563	4.00000	3.19007(a)
102	Dibenzofuran	168	8.082	8.082	(1.024)	125902	4.00000	4.38930
105	Hexadecane	57	8.211	8.211	(1.040)	48462	4.00000	4.30851(a)
107	Diethyl phthalate	149	8.234	8.234	(1.043)	93520	4.00000	4.19970
109	4-Chlorophenyl phenyl ether	204	8.364	8.364	(1.060)	48464	4.00000	4.21036(a)
110	Fluorene	166	8.381	8.381	(1.062)	106202	4.00000	4.36981
112	4-Nitroaniline	138	8.405	8.405	(1.065)	21420	4.00000	3.51520(a)
115	N-nitrosodiphenylamine	169	8.464	8.464	(0.923)	82141	4.00000	4.20848(a)
116	Azobenzene	77	8.499	8.499	(1.077)	88932	4.00000	3.98084(a)
234	1,2-DPH(as Azobenzene)	77	8.499	8.499	(1.077)	88932	4.04390	4.02453
242	2,4,6 - Tribromophenol	330	8.593	8.593	(1.089)	17417	6.00000	4.73012(a)
124	4-Bromophenyl phenyl ether	248	8.781	8.781	(0.958)	27487	4.00000	4.05580(a)
125	Hexachlorobenzene	284	8.846	8.846	(0.965)	29289	4.00000	4.05173(a)
127	Atrazine	200	8.887	8.887	(0.969)	24042	4.00000	3.89538(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
128 n-Octadecane	85	8.969	8.969	(0.978)	22017	4.00000	4.15658(a)
136 Phenanthrene	178	9.186	9.186	(1.002)	153337	4.00000	4.58898
137 Anthracene	178	9.227	9.227	(1.006)	141815	4.00000	4.26678
140 Carbazole	167	9.351	9.351	(1.020)	135216	4.00000	4.27765
141 Alachlor	188	9.415	9.415	(1.027)	15479	4.00000	3.59796(a)
143 Di-n-butyl phthalate	149	9.551	9.551	(1.042)	136745	4.00000	3.91111(a)
144 n-Eicosane	43	9.615	9.615	(1.218)	31914	4.00000	4.09454(a)
149 Fluoranthene	202	10.132	10.132	(1.105)	152310	4.00000	4.23069
150 n-docosane	43	10.197	10.197	(1.292)	30524	4.00000	4.02473(a)
152 Pyrene	202	10.314	10.314	(0.915)	164008	4.00000	4.30132
158 Famphur	218	10.714	10.714	(0.950)	47544	4.00000	3.73409(a)
159 Butyl benzyl phthalate	149	10.737	10.737	(0.952)	64252	4.00000	3.97407(a)
162 Bis(2-ethylhexyl) phthalate	149	11.149	11.149	(0.989)	67465	4.00000	3.22381(a)
164 3 3'-Dichlorobenzidine	252	11.225	11.225	(0.995)	33215	4.00000	2.68793(a)
165 Benzo(a)anthracene	228	11.266	11.266	(0.999)	147997	4.00000	4.07678
167 Chrysene	228	11.301	11.301	(1.002)	158048	4.00000	4.40683
168 Di-n-octyl phthalate	149	11.660	11.660	(1.034)	95057	4.00000	4.13394
171 Benzo(b)fluoranthene	252	12.189	12.189	(0.968)	125717	4.00000	3.49633(a)
172 Benzo(k)fluoranthene	252	12.218	12.218	(0.970)	163557	4.00000	4.36622
178 Benzo(a)pyrene	252	12.535	12.535	(0.995)	118850	4.00000	3.65867(a)
185 Dibenz(a,h)anthracene	278	13.904	13.904	(1.104)	110644	4.00000	3.63240(a)
186 Indeno(1,2,3-cd)pyrene	276	13.910	13.910	(1.233)	136300	4.00000	3.60618(a)
188 Benzo(g,h,i)perylene	276	14.327	14.327	(1.138)	117835	4.00000	3.72857(a)

QC Flag Legend

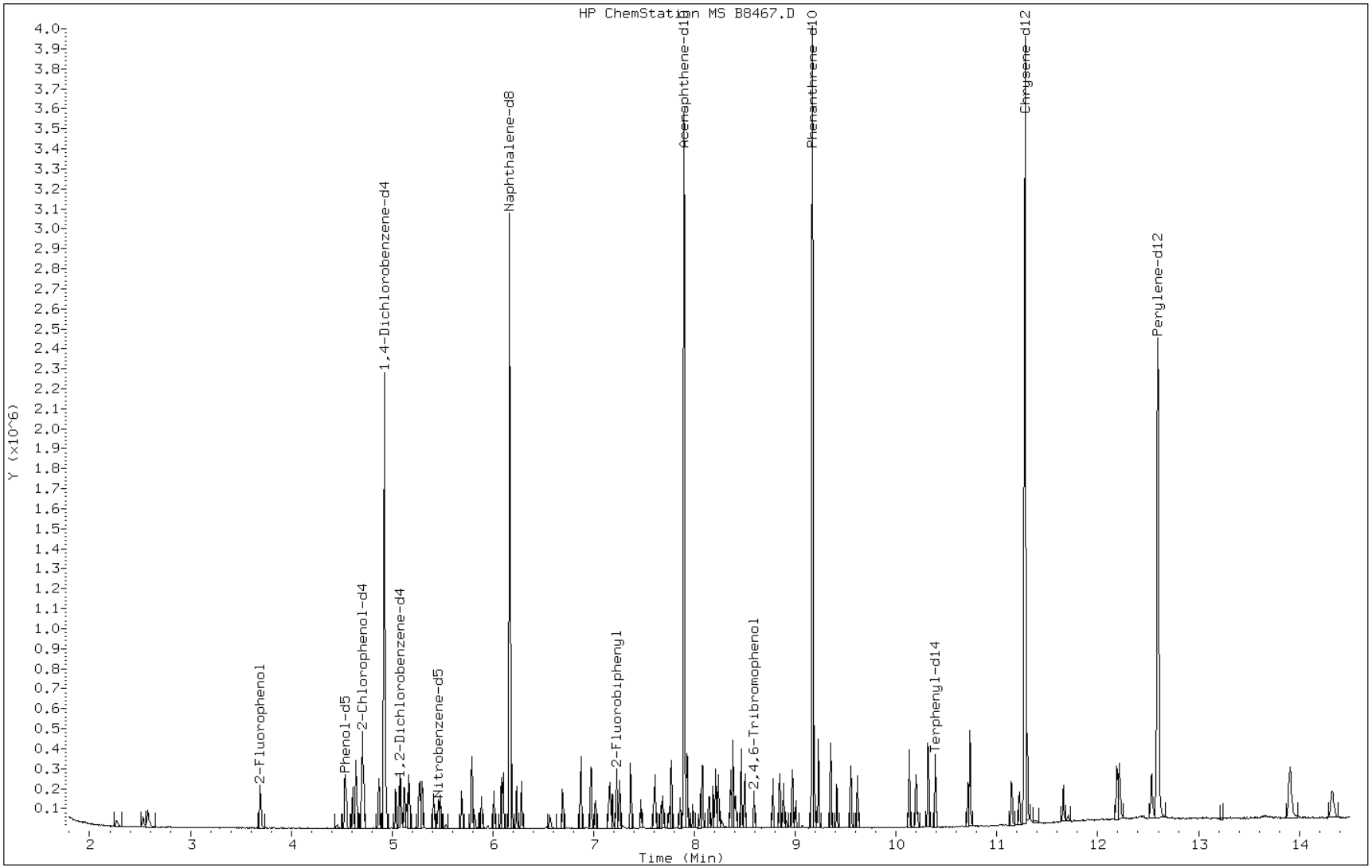
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: B8467.D

Date: 15-DEC-2011 09:39

Client ID: MS-HSL004_00014 Instrument: B.i

Sample Info: STD004-1148419,,MS-HSL004_00014 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\121511.B\B8468.D
Lab Smp Id: STD010-1148420 Client Smp ID: MS-HSL010_00014
Inj Date : 15-DEC-2011 09:59
Operator : KIEKELD Inst ID: B.i
Smp Info : STD010-1148420,,MS-HSL010_00014
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\121511.B\8270C.m
Meth Date : 15-Dec-2011 13:28 B.i Quant Type: ISTD
Cal Date : 15-DEC-2011 09:39 Cal File: B8467.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	26 1,4-Dichlorobenzene-d4	152	4.925	4.925	(1.000)	302171	40.0000	
*	58 Naphthalene-d8	136	6.165	6.165	(1.000)	1195895	40.0000	
*	96 Acenaphthene-d10	164	7.898	7.898	(1.000)	700455	40.0000	
*	135 Phenanthrene-d10	188	9.167	9.167	(1.000)	1205286	40.0000	
*	166 Chrysene-d12	240	11.270	11.270	(1.000)	1282568	40.0000	
*	179 Perylene-d12	264	12.586	12.586	(1.000)	1148430	40.0000	
$	22 2-Chlorophenol-d4	132	4.707	4.707	(0.956)	176223	15.0000	16.2304
$	29 1,2-Dichlorobenzene-d4	152	5.072	5.072	(1.030)	79177	10.0000	10.4668
$	8 2-Fluorophenol	112	3.697	3.697	(0.751)	164317	15.0000	15.4176
$	15 Phenol-d5	99	4.531	4.531	(0.920)	202740	15.0000	15.6493
$	43 Nitrobenzene-d5	82	5.459	5.459	(0.886)	110101	10.0000	9.84396(a)
$	81 2-Fluorobiphenyl	172	7.228	7.228	(0.915)	240851	10.0000	10.8585
$	118 2,4,6-Tribromophenol	330	8.591	8.591	(1.088)	48534	15.0000	13.5731
$	154 Terphenyl-d14	244	10.389	10.389	(0.922)	262238	10.0000	10.5974
	4 1,4-Dioxane	88	2.269	2.269	(0.461)	47285	10.0000	10.4754
	5 N-Nitrosodimethylamine	74	2.534	2.534	(0.514)	67397	10.0000	9.92749(a)
	6 Pyridine	79	2.575	2.575	(0.523)	119356	10.0000	10.0150
	16 Phenol	94	4.543	4.543	(0.922)	138783	10.0000	10.4128
	18 Aniline	93	4.613	4.613	(0.937)	164192	10.0000	10.2559
	19 Methyl Styrene	118	4.643	4.643	(0.943)	111633	10.0000	10.1101
	20 Bis(2-chloroethyl) ether	93	4.649	4.649	(0.944)	108577	10.0000	10.6772
	21 Decane	43	4.707	4.707	(0.956)	88621	10.0000	10.8754

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
23	2-Chlorophenol	128	4.719	4.719	(0.958)	114343	10.0000	10.5071
25	1,3-Dichlorobenzene	146	4.872	4.872	(0.989)	131254	10.0000	10.4002
27	1,4-Dichlorobenzene	146	4.937	4.937	(1.002)	134762	10.0000	10.5651
28	Benzyl alcohol	108	5.036	5.036	(1.023)	70857	10.0000	9.88945(a)
30	1,2-Dichlorobenzene	146	5.089	5.089	(1.033)	127149	10.0000	10.6293
32	2-Methylphenol	108	5.125	5.125	(1.041)	102482	10.0000	10.0504
34	2,2'-oxybis(1-chloropropane)	45	5.148	5.148	(1.045)	128822	10.0000	10.5121
35	1H-Indene	116	5.172	5.172	(1.050)	174273	10.0000	10.4230
138	3-Methylphenol	108	5.266	5.266	(1.069)	107795	10.0000	10.1773
36	4-Methylphenol	108	5.266	5.266	(1.069)	107795	10.0000	10.1773
139	3 & 4-Methylphenol	108	5.266	5.266	(1.069)	107795	10.0000	10.1773
37	N-nitrosodi-n-propylamine	70	5.277	5.277	(1.072)	73503	10.0000	10.0835
38	Acetophenone	105	5.301	5.301	(1.076)	154703	10.0000	10.5787
41	Hexachloroethane	117	5.412	5.412	(1.099)	47942	10.0000	10.0312
44	Nitrobenzene	77	5.477	5.477	(0.888)	115351	10.0000	10.3786
47	Isophorone	82	5.689	5.689	(0.923)	184323	10.0000	9.77287(a)
50	2,4-Dimethylphenol	107	5.789	5.789	(0.939)	108179	10.0000	10.5094
49	2-Nitrophenol	139	5.789	5.789	(0.939)	50726	10.0000	9.12315(a)
52	Bis(2-chloroethoxy)methane	93	5.888	5.888	(0.955)	124017	10.0000	10.2297
54	2,4-Dichlorophenol	162	6.012	6.012	(0.975)	89376	10.0000	10.0518
56	n-Dodecane	43	6.082	6.082	(0.770)	90236	10.0000	10.8150
57	1,2,4-Trichlorobenzene	180	6.100	6.100	(0.990)	110101	10.0000	10.5646
59	Naphthalene	128	6.188	6.188	(1.004)	340823	10.0000	10.8282
60	4-Chloroaniline	127	6.235	6.235	(1.011)	138317	10.0000	10.4791
62	Hexachlorobutadiene	225	6.282	6.282	(1.019)	60619	10.0000	10.2669
67	Caprolactam	55	6.564	6.564	(1.065)	32240	10.0000	9.25487(a)
68	4-Chloro-3-methylphenol	107	6.693	6.693	(1.086)	88534	10.0000	9.86569(a)
71	2-Methylnaphthalene	142	6.870	6.870	(1.114)	229434	10.0000	10.6202
72	1-Methylnaphthalene	142	6.975	6.975	(1.132)	218848	10.0000	10.7372
74	Hexachlorocyclopentadiene	237	7.016	7.016	(0.888)	52126	10.0000	10.1171
78	2,4,6-Trichlorophenol	196	7.152	7.152	(0.906)	60922	10.0000	9.83591(a)
79	2,3-Dichlorobenzeneamine	161	7.163	7.163	(0.907)	115366	10.0000	10.7285
80	2,4,5-Trichlorophenol	196	7.187	7.187	(0.910)	68597	10.0000	9.92256(a)
83	Tetradecane	43	7.257	7.257	(0.919)	86317	10.0000	10.6548
86	2-Chloronaphthalene	162	7.369	7.369	(0.933)	210299	10.0000	10.7820
88	2-Nitroaniline	65	7.469	7.469	(0.946)	48811	10.0000	9.22281(a)
91	Dimethyl phthalate	163	7.610	7.610	(0.964)	229402	10.0000	10.4690
93	2,6-Dinitrotoluene	165	7.686	7.686	(0.973)	53125	10.0000	9.74366(a)
94	Acenaphthylene	152	7.769	7.769	(0.984)	322847	10.0000	10.6482
95	3-Nitroaniline	138	7.857	7.857	(0.995)	57690	10.0000	9.59186(a)
97	Acenaphthene	153	7.927	7.927	(1.004)	213169	10.0000	10.7545
98	2,4-Dinitrophenol	184	7.945	7.945	(1.006)	16778	10.0000	13.0745
99	4-Nitrophenol	109	7.986	7.986	(1.011)	28095	10.0000	9.00427(a)
101	2,4-Dinitrotoluene	165	8.056	8.056	(1.020)	64561	10.0000	9.39957(a)
102	Dibenzofuran	168	8.080	8.080	(1.023)	303032	10.0000	10.8789
105	Hexadecane	57	8.209	8.209	(1.039)	116807	10.0000	10.6937
107	Diethyl phthalate	149	8.239	8.239	(1.043)	232272	10.0000	10.7410
109	4-Chlorophenyl phenyl ether	204	8.362	8.362	(1.059)	118996	10.0000	10.6455
110	Fluorene	166	8.380	8.380	(1.061)	259315	10.0000	10.9873
112	4-Nitroaniline	138	8.403	8.403	(1.064)	55447	10.0000	9.37009(a)
113	4,6-Dinitro-2-methylphenol	198	8.415	8.415	(0.918)	29938	10.0000	7.15974(a)
115	N-nitrosodiphenylamine	169	8.468	8.468	(0.924)	206481	10.0000	10.6074
116	Azobenzene	77	8.497	8.497	(1.076)	233448	10.0000	10.7607
234	1,2-DPH(as Azobenzene)	77	8.497	8.497	(1.076)	233448	10.1098	10.8788

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
242	2,4,6 - Tribromophenol	330	8.591	8.591	(1.088)	48534	15.0000	13.5731
124	4-Bromophenyl phenyl ether	248	8.779	8.779	(0.958)	69368	10.0000	10.2629
125	Hexachlorobenzene	284	8.844	8.844	(0.965)	71950	10.0000	9.97998(a)
127	Atrazine	200	8.885	8.885	(0.969)	61353	10.0000	9.96730(a)
128	n-Octadecane	85	8.973	8.973	(0.979)	53776	10.0000	10.1796
129	Pentachlorophenol	266	9.002	9.002	(0.982)	37084	10.0000	8.04888(a)
136	Phenanthrene	178	9.190	9.190	(1.003)	359961	10.0000	10.8016
137	Anthracene	178	9.232	9.232	(1.007)	355638	10.0000	10.7287
140	Carbazole	167	9.355	9.355	(1.021)	337048	10.0000	10.6913
141	Alachlor	188	9.414	9.414	(1.027)	41460	10.0000	9.66286(a)
143	Di-n-butyl phthalate	149	9.549	9.549	(1.042)	357318	10.0000	10.2472
144	n-Eicosane	43	9.619	9.619	(1.218)	80905	10.0000	10.6889
149	Fluoranthene	202	10.125	10.125	(1.104)	379814	10.0000	10.5783
150	n-docosane	43	10.195	10.195	(1.291)	76495	10.0000	10.3863
152	Pyrene	202	10.313	10.313	(0.915)	404110	10.0000	10.8498
158	Famphur	218	10.706	10.706	(0.950)	130500	10.0000	10.4926
159	Butyl benzyl phthalate	149	10.730	10.730	(0.952)	165259	10.0000	10.4640
162	Bis(2-ethylhexyl) phthalate	149	11.141	11.141	(0.989)	182088	10.0000	8.90753
164	3 3'-Dichlorobenzidine	252	11.217	11.217	(0.995)	104666	10.0000	8.67111(a)
165	Benzo(a)anthracene	228	11.259	11.259	(0.999)	367007	10.0000	10.3496
167	Chrysene	228	11.294	11.294	(1.002)	376945	10.0000	10.7597
168	Di-n-octyl phthalate	149	11.646	11.646	(1.033)	278860	10.0000	9.23750
171	Benzo(b)fluoranthene	252	12.181	12.181	(0.968)	350027	10.0000	9.96742
172	Benzo(k)fluoranthene	252	12.205	12.205	(0.970)	373075	10.0000	10.1975
178	Benzo(a)pyrene	252	12.522	12.522	(0.995)	302063	10.0000	9.52103
185	Dibenz(a,h)anthracene	278	13.891	13.891	(1.104)	277142	10.0000	9.31603
186	Indeno(1,2,3-cd)pyrene	276	13.897	13.897	(1.233)	341842	10.0000	9.25895
188	Benzo(g,h,i)perylene	276	14.314	14.314	(1.137)	296748	10.0000	9.61432

QC Flag Legend

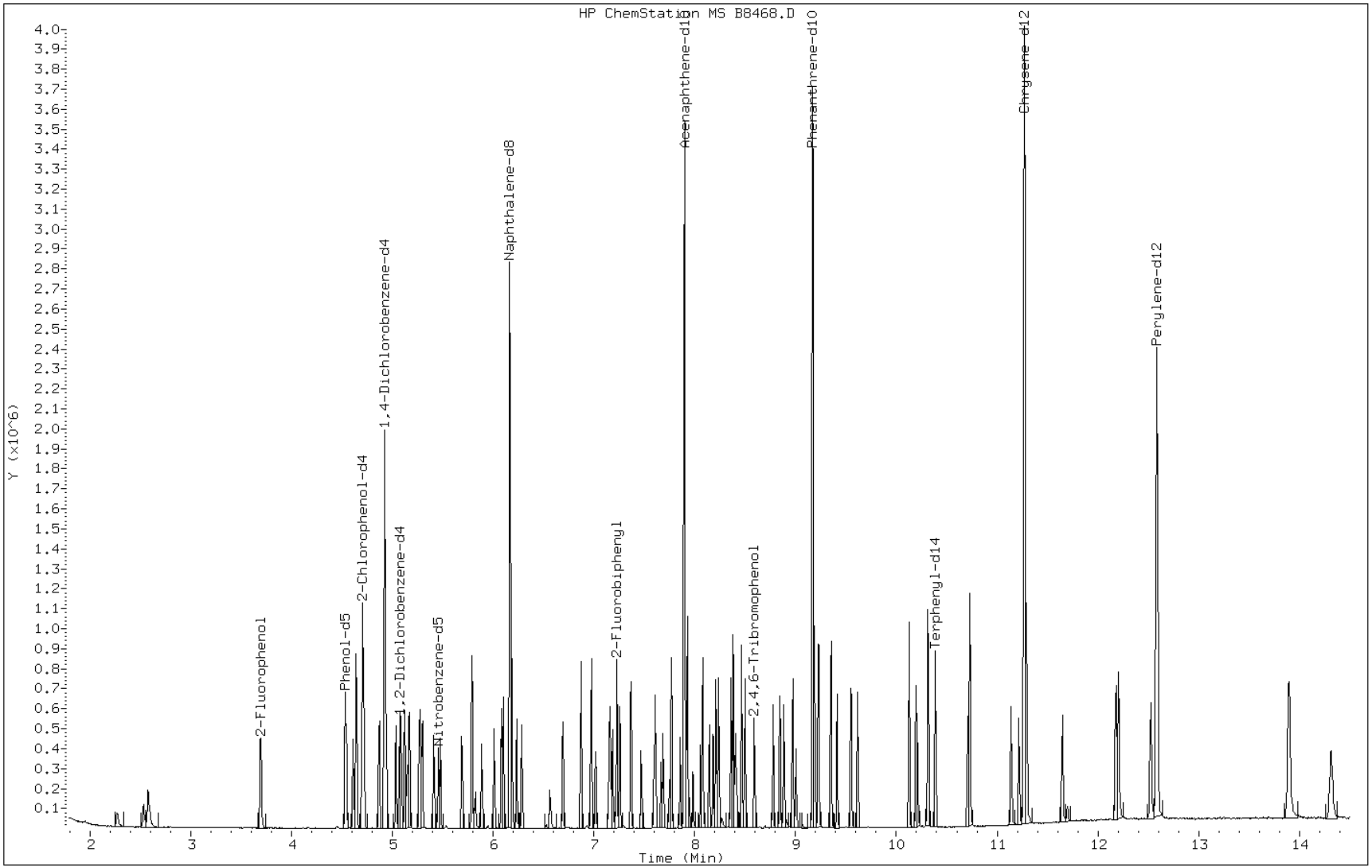
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: B8468.D

Date: 15-DEC-2011 09:59

Client ID: MS-HSL010_00014 Instrument: B.i

Sample Info: STD010-1148420,,MS-HSL010_00014 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\121511.B\B8469.D
Lab Smp Id: STD020-1148421 Client Smp ID: MS-HSL020_00014
Inj Date : 15-DEC-2011 10:18
Operator : KIEKELD Inst ID: B.i
Smp Info : STD020-1148421,,MS-HSL020_00014
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\121511.B\8270C.m
Meth Date : 15-Dec-2011 13:28 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 14:58 Cal File: B8376.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26	1,4-Dichlorobenzene-d4	152	4.924	4.924	(1.000)	304895	40.0000	
* 58	Naphthalene-d8	136	6.164	6.164	(1.000)	1206097	40.0000	
* 96	Acenaphthene-d10	164	7.897	7.897	(1.000)	711294	40.0000	
* 135	Phenanthrene-d10	188	9.172	9.172	(1.000)	1211734	40.0000	
* 166	Chrysene-d12	240	11.270	11.270	(1.000)	1308116	40.0000	
* 179	Perylene-d12	264	12.580	12.580	(1.000)	1171142	40.0000	
$ 22	2-Chlorophenol-d4	132	4.707	4.707	(0.956)	343177	30.0000	31.3247
$ 29	1,2-Dichlorobenzene-d4	152	5.071	5.071	(1.030)	159076	20.0000	20.8412
$ 8	2-Fluorophenol	112	3.696	3.696	(0.751)	324998	30.0000	30.2216
$ 15	Phenol-d5	99	4.530	4.530	(0.920)	403754	30.0000	30.8870
$ 43	Nitrobenzene-d5	82	5.459	5.459	(0.886)	225955	20.0000	20.0314
$ 81	2-Fluorobiphenyl	172	7.227	7.227	(0.915)	476179	20.0000	21.1409
$ 118	2,4,6-Tribromophenol	330	8.596	8.596	(1.089)	104950	30.0000	28.9032
$ 154	Terphenyl-d14	244	10.388	10.388	(0.922)	511720	20.0000	20.2754
4	1,4-Dioxane	88	2.268	2.268	(0.461)	89920	20.0000	19.7426
5	N-Nitrosodimethylamine	74	2.527	2.527	(0.513)	137245	20.0000	20.0354
6	Pyridine	79	2.574	2.574	(0.523)	240300	20.0000	19.9832
16	Phenol	94	4.542	4.542	(0.922)	278687	20.0000	20.7228
18	Aniline	93	4.613	4.613	(0.937)	329170	20.0000	20.3772
19	Methyl Styrene	118	4.642	4.642	(0.943)	229132	20.0000	20.5661
20	Bis(2-chloroethyl) ether	93	4.648	4.648	(0.944)	214825	20.0000	20.9366
21	Decane	43	4.707	4.707	(0.956)	179127	20.0000	21.7858

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
23	2-Chlorophenol	128	4.718	4.718	(0.958)	225830	20.0000	20.5664
25	1,3-Dichlorobenzene	146	4.871	4.871	(0.989)	262737	20.0000	20.6326
27	1,4-Dichlorobenzene	146	4.936	4.936	(1.002)	263595	20.0000	20.4807
28	Benzyl alcohol	108	5.036	5.036	(1.023)	141430	20.0000	19.5629
30	1,2-Dichlorobenzene	146	5.089	5.089	(1.033)	249135	20.0000	20.6409
32	2-Methylphenol	108	5.124	5.124	(1.041)	209900	20.0000	20.4010
34	2,2'-oxybis(1-chloropropane)	45	5.147	5.147	(1.045)	251774	20.0000	20.3617
35	1H-Indene	116	5.171	5.171	(1.050)	345410	20.0000	20.4738
138	3-Methylphenol	108	5.271	5.271	(1.070)	218485	20.0000	20.4436
36	4-Methylphenol	108	5.271	5.271	(1.070)	218485	20.0000	20.4436
139	3 & 4-Methylphenol	108	5.271	5.271	(1.070)	218485	20.0000	20.4436
37	N-nitrosodi-n-propylamine	70	5.277	5.277	(1.072)	149935	20.0000	20.3850
38	Acetophenone	105	5.300	5.300	(1.076)	302588	20.0000	20.5064
41	Hexachloroethane	117	5.412	5.412	(1.099)	97802	20.0000	20.2809
44	Nitrobenzene	77	5.476	5.476	(0.888)	225516	20.0000	20.1189
47	Isophorone	82	5.688	5.688	(0.923)	382273	20.0000	20.0968
50	2,4-Dimethylphenol	107	5.794	5.794	(0.940)	215023	20.0000	20.7125
49	2-Nitrophenol	139	5.788	5.788	(0.939)	111291	20.0000	19.8465
53	Benzoic acid	122	5.835	5.835	(0.947)	91137	20.0000	16.0053
52	Bis(2-chloroethoxy)methane	93	5.888	5.888	(0.955)	253344	20.0000	20.7206
54	2,4-Dichlorophenol	162	6.011	6.011	(0.975)	180857	20.0000	20.1682
56	n-Dodecane	43	6.081	6.081	(0.770)	177306	20.0000	20.9267
57	1,2,4-Trichlorobenzene	180	6.099	6.099	(0.990)	214893	20.0000	20.4454
59	Naphthalene	128	6.187	6.187	(1.004)	671385	20.0000	21.1500
60	4-Chloroaniline	127	6.234	6.234	(1.011)	275257	20.0000	20.6775
62	Hexachlorobutadiene	225	6.287	6.287	(1.020)	119868	20.0000	20.1300
67	Caprolactam	55	6.563	6.563	(1.065)	70976	20.0000	20.2022
68	4-Chloro-3-methylphenol	107	6.693	6.693	(1.086)	183156	20.0000	20.2372
71	2-Methylnaphthalene	142	6.875	6.875	(1.115)	455070	20.0000	20.8864
72	1-Methylnaphthalene	142	6.975	6.975	(1.132)	432788	20.0000	21.0540
74	Hexachlorocyclopentadiene	237	7.016	7.016	(0.888)	111790	20.0000	19.5493
78	2,4,6-Trichlorophenol	196	7.151	7.151	(0.906)	124733	20.0000	19.8314
79	2,3-Dichlorobenzeneamine	161	7.163	7.163	(0.907)	228465	20.0000	20.9224
80	2,4,5-Trichlorophenol	196	7.186	7.186	(0.910)	140400	20.0000	19.9994
83	Tetradecane	43	7.257	7.257	(0.919)	171299	20.0000	20.8226
86	2-Chloronaphthalene	162	7.368	7.368	(0.933)	408614	20.0000	20.6303
88	2-Nitroaniline	65	7.468	7.468	(0.946)	104584	20.0000	19.4600
91	Dimethyl phthalate	163	7.609	7.609	(0.964)	459140	20.0000	20.6341
93	2,6-Dinitrotoluene	165	7.685	7.685	(0.973)	109252	20.0000	19.7326
94	Acenaphthylene	152	7.768	7.768	(0.984)	649918	20.0000	21.1090
95	3-Nitroaniline	138	7.856	7.856	(0.995)	121110	20.0000	19.8296
97	Acenaphthene	153	7.926	7.926	(1.004)	422969	20.0000	21.0138
98	2,4-Dinitrophenol	184	7.950	7.950	(1.007)	42370	20.0000	20.3091
99	4-Nitrophenol	109	7.985	7.985	(1.011)	60903	20.0000	19.2216
101	2,4-Dinitrotoluene	165	8.062	8.062	(1.021)	136277	20.0000	19.5385
102	Dibenzofuran	168	8.079	8.079	(1.023)	596716	20.0000	21.0958
105	Hexadecane	57	8.208	8.208	(1.039)	233922	20.0000	21.0893
107	Diethyl phthalate	149	8.238	8.238	(1.043)	452178	20.0000	20.5916
109	4-Chlorophenyl phenyl ether	204	8.361	8.361	(1.059)	236135	20.0000	20.8030
110	Fluorene	166	8.385	8.385	(1.062)	505000	20.0000	21.0711
112	4-Nitroaniline	138	8.402	8.402	(1.064)	119092	20.0000	19.8189
113	4,6-Dinitro-2-methylphenol	198	8.414	8.414	(0.917)	70785	20.0000	16.8383
115	N-nitrosodiphenylamine	169	8.467	8.467	(0.923)	413719	20.0000	21.1406
116	Azobenzene	77	8.496	8.496	(1.076)	468960	20.0000	21.2872

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
234 1,2-DPH(as Azobenzene)	77	8.496	8.496	(1.076)	468960	20.2195	21.5208
242 2,4,6 - Tribromophenol	330	8.596	8.596	(1.089)	104950	30.0000	28.9032
124 4-Bromophenyl phenyl ether	248	8.778	8.778	(0.957)	137474	20.0000	20.2309
125 Hexachlorobenzene	284	8.849	8.849	(0.965)	145019	20.0000	20.0081
127 Atrazine	200	8.884	8.884	(0.969)	127229	20.0000	20.5594
128 n-Octadecane	85	8.972	8.972	(0.978)	108086	20.0000	20.3514
129 Pentachlorophenol	266	9.007	9.007	(0.982)	81078	20.0000	17.5039
136 Phenanthrene	178	9.190	9.190	(1.002)	705516	20.0000	21.0582
137 Anthracene	178	9.231	9.231	(1.006)	704749	20.0000	21.1474
140 Carbazole	167	9.354	9.354	(1.020)	674997	20.0000	21.2973
141 Alachlor	188	9.413	9.413	(1.026)	83725	20.0000	19.4095
143 Di-n-butyl phthalate	149	9.554	9.554	(1.042)	743069	20.0000	21.1965
144 n-Eicosane	43	9.619	9.619	(1.218)	161548	20.0000	21.0180
149 Fluoranthene	202	10.130	10.130	(1.104)	759475	20.0000	21.0398
150 n-docosane	43	10.194	10.194	(1.291)	154860	20.0000	20.7062
151 Benzidine	184	10.212	10.212	(0.906)	292853	20.0000	15.6449
152 Pyrene	202	10.312	10.312	(0.915)	799195	20.0000	21.0382
158 Famphur	218	10.705	10.705	(0.950)	274331	20.0000	21.6264
159 Butyl benzyl phthalate	149	10.729	10.729	(0.952)	337629	20.0000	20.9608
162 Bis(2-ethylhexyl) phthalate	149	11.134	11.134	(0.988)	402586	20.0000	19.3094(H)
164 3 3'-Dichlorobenzidine	252	11.217	11.217	(0.995)	231500	20.0000	18.8042
165 Benzo(a)anthracene	228	11.258	11.258	(0.999)	748947	20.0000	20.7078(H)
167 Chrysene	228	11.293	11.293	(1.002)	738700	20.0000	20.6740
168 Di-n-octyl phthalate	149	11.646	11.646	(1.033)	652984	20.0000	19.1526
171 Benzo(b)fluoranthene	252	12.180	12.180	(0.968)	752083	20.0000	21.0011(H)
172 Benzo(k)fluoranthene	252	12.204	12.204	(0.970)	743504	20.0000	19.9286
178 Benzo(a)pyrene	252	12.521	12.521	(0.995)	664863	20.0000	20.5501
185 Dibenz(a,h)anthracene	278	13.890	13.890	(1.104)	585675	20.0000	19.3055
186 Indeno(1,2,3-cd)pyrene	276	13.890	13.890	(1.233)	721085	20.0000	19.1495
188 Benzo(g,h,i)perylene	276	14.313	14.313	(1.138)	610730	20.0000	19.4033

QC Flag Legend

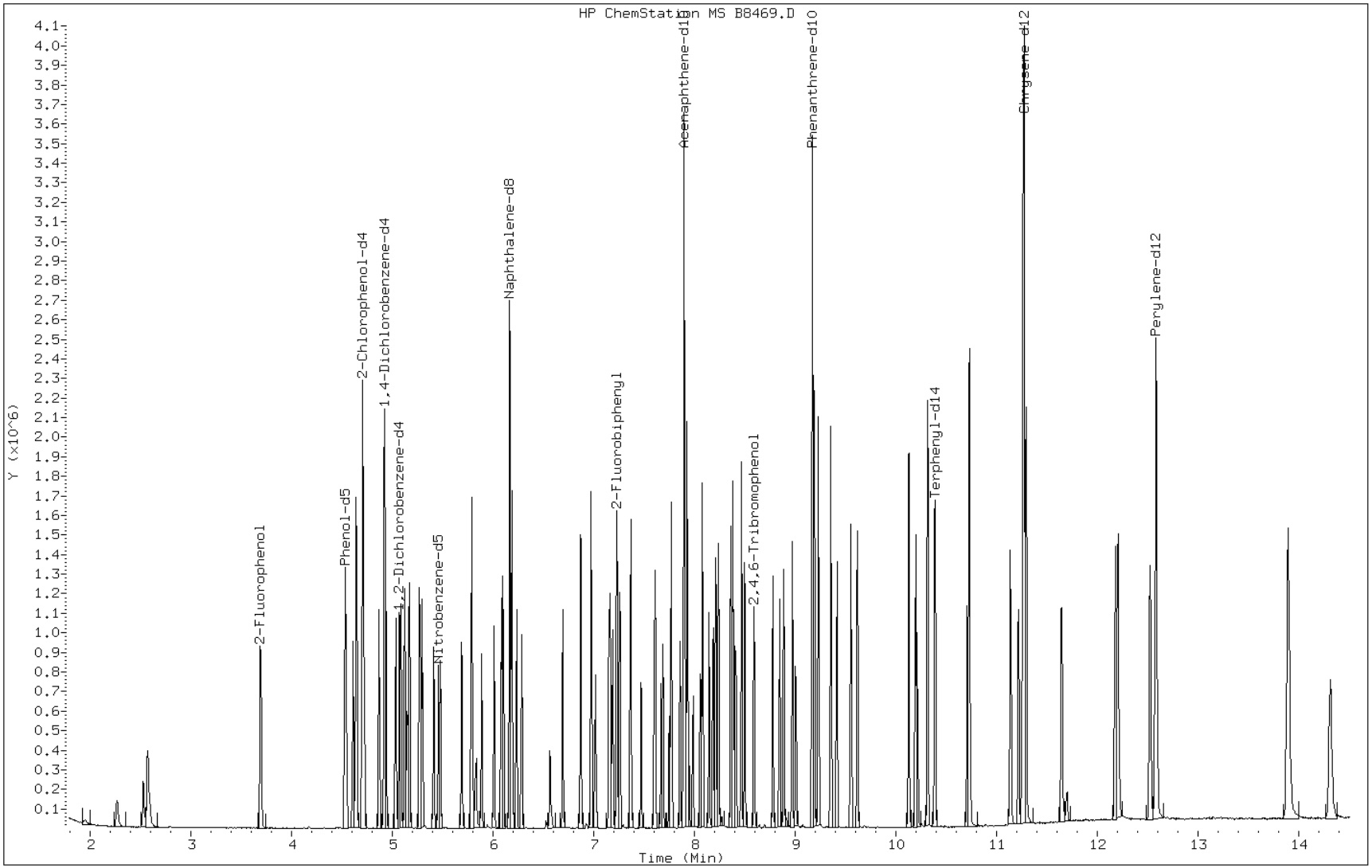
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Data File: B8469.D

Date: 15-DEC-2011 10:18

Client ID: MS-HSL020_00014 Instrument: B.i

Sample Info: STD020-1148421,,MS-HSL020_00014 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\121511.B\B8470.D
Lab Smp Id: STD050-1148422 Client Smp ID: MS-HSL050_00014
Inj Date : 15-DEC-2011 10:38
Operator : KIEKELD Inst ID: B.i
Smp Info : STD050-1148422,,MS-HSL050_00014
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\121511.B\8270C.m
Meth Date : 15-Dec-2011 13:28 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 15:17 Cal File: B8377.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.922	4.922	(1.000)	310167	40.0000	
* 58 Naphthalene-d8	136	6.167	6.167	(1.000)	1212174	40.0000	
* 96 Acenaphthene-d10	164	7.895	7.895	(1.000)	711220	40.0000	
* 135 Phenanthrene-d10	188	9.170	9.170	(1.000)	1206542	40.0000	
* 166 Chrysene-d12	240	11.273	11.273	(1.000)	1283652	40.0000	
* 179 Perylene-d12	264	12.583	12.583	(1.000)	1179901	40.0000	
$ 22 2-Chlorophenol-d4	132	4.704	4.704	(0.956)	870549	75.0000	78.1119
$ 29 1,2-Dichlorobenzene-d4	152	5.075	5.075	(1.031)	391679	50.0000	50.4432
$ 8 2-Fluorophenol	112	3.694	3.694	(0.751)	830837	75.0000	75.9465
$ 15 Phenol-d5	99	4.534	4.534	(0.921)	1014447	75.0000	76.2856
$ 43 Nitrobenzene-d5	82	5.457	5.457	(0.885)	578875	50.0000	51.0612
$ 81 2-Fluorobiphenyl	172	7.231	7.231	(0.916)	1165799	50.0000	51.7633
$ 118 2,4,6-Tribromophenol	330	8.594	8.594	(1.089)	275092	75.0000	75.7683
$ 154 Terphenyl-d14	244	10.386	10.386	(0.921)	1273544	50.0000	51.4220
4 1,4-Dioxane	88	2.272	2.272	(0.462)	224604	50.0000	48.4752
5 N-Nitrosodimethylamine	74	2.531	2.531	(0.514)	346363	50.0000	49.7036
6 Pyridine	79	2.572	2.572	(0.523)	614693	50.0000	50.2487
16 Phenol	94	4.546	4.546	(0.924)	693993	50.0000	50.7273
18 Aniline	93	4.610	4.610	(0.937)	829936	50.0000	50.5036
19 Methyl Styrene	118	4.640	4.640	(0.943)	578173	50.0000	51.0128
20 Bis(2-chloroethyl) ether	93	4.652	4.652	(0.945)	526735	50.0000	50.4625
21 Decane	43	4.704	4.704	(0.956)	430444	50.0000	51.4617

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
23	2-Chlorophenol	128	4.722	4.722	(0.959)	563730	50.0000	50.4663
25	1,3-Dichlorobenzene	146	4.869	4.869	(0.989)	653235	50.0000	50.4262
27	1,4-Dichlorobenzene	146	4.939	4.939	(1.004)	658066	50.0000	50.2610
28	Benzyl alcohol	108	5.039	5.039	(1.024)	364812	50.0000	49.6039
30	1,2-Dichlorobenzene	146	5.086	5.086	(1.033)	620575	50.0000	50.5409
32	2-Methylphenol	108	5.127	5.127	(1.042)	530915	50.0000	50.7247
34	2,2'-oxybis(1-chloropropane)	45	5.151	5.151	(1.047)	630701	50.0000	50.1397
35	1H-Indene	116	5.169	5.169	(1.050)	877459	50.0000	51.1264
138	3-Methylphenol	108	5.268	5.268	(1.070)	548813	50.0000	50.4795
36	4-Methylphenol	108	5.268	5.268	(1.070)	548813	50.0000	50.4795
139	3 & 4-Methylphenol	108	5.268	5.268	(1.070)	548813	50.0000	50.4795
37	N-nitrosodi-n-propylamine	70	5.280	5.280	(1.073)	373648	50.0000	49.9374
38	Acetophenone	105	5.298	5.298	(1.076)	762028	50.0000	50.7648
41	Hexachloroethane	117	5.410	5.410	(1.099)	245959	50.0000	50.1369
44	Nitrobenzene	77	5.480	5.480	(0.889)	569753	50.0000	50.5743
47	Isophorone	82	5.692	5.692	(0.923)	975007	50.0000	51.0010
50	2,4-Dimethylphenol	107	5.791	5.791	(0.939)	531792	50.0000	50.9690
49	2-Nitrophenol	139	5.786	5.786	(0.938)	293420	50.0000	52.0633
53	Benzoic acid	122	5.850	5.850	(0.949)	285223	50.0000	49.8393
52	Bis(2-chloroethoxy)methane	93	5.885	5.885	(0.954)	628981	50.0000	51.1855
54	2,4-Dichlorophenol	162	6.009	6.009	(0.974)	461544	50.0000	51.2109
56	n-Dodecane	43	6.085	6.085	(0.771)	438469	50.0000	51.7560
57	1,2,4-Trichlorobenzene	180	6.103	6.103	(0.990)	535365	50.0000	50.6805
59	Naphthalene	128	6.185	6.185	(1.003)	1637912	50.0000	51.3390
60	4-Chloroaniline	127	6.232	6.232	(1.010)	682881	50.0000	51.0414
62	Hexachlorobutadiene	225	6.285	6.285	(1.019)	305096	50.0000	50.9793
67	Caprolactam	55	6.573	6.573	(1.066)	191452	50.0000	54.2205
68	4-Chloro-3-methylphenol	107	6.690	6.690	(1.085)	462479	50.0000	50.8437
71	2-Methylnaphthalene	142	6.872	6.872	(1.114)	1125767	50.0000	51.4103
72	1-Methylnaphthalene	142	6.972	6.972	(1.131)	1058306	50.0000	51.2258
74	Hexachlorocyclopentadiene	237	7.019	7.019	(0.889)	301352	50.0000	49.9329
78	2,4,6-Trichlorophenol	196	7.149	7.149	(0.905)	325133	50.0000	51.6985
79	2,3-Dichlorobenzeneamine	161	7.166	7.166	(0.908)	566579	50.0000	51.8917
80	2,4,5-Trichlorophenol	196	7.190	7.190	(0.911)	364851	50.0000	51.9769
83	Tetradecane	43	7.260	7.260	(0.920)	426421	50.0000	51.8398
86	2-Chloronaphthalene	162	7.366	7.366	(0.933)	1010346	50.0000	51.0162
88	2-Nitroaniline	65	7.472	7.472	(0.946)	275268	50.0000	51.2245
91	Dimethyl phthalate	163	7.613	7.613	(0.964)	1130093	50.0000	50.7925
93	2,6-Dinitrotoluene	165	7.689	7.689	(0.974)	281225	50.0000	50.7988
94	Acenaphthylene	152	7.771	7.771	(0.984)	1603761	50.0000	52.0948
95	3-Nitroaniline	138	7.860	7.860	(0.996)	314928	50.0000	51.5692
97	Acenaphthene	153	7.924	7.924	(1.004)	1029484	50.0000	51.1519
98	2,4-Dinitrophenol	184	7.948	7.948	(1.007)	139223	50.0000	47.9734
99	4-Nitrophenol	109	7.983	7.983	(1.011)	163647	50.0000	51.6540
101	2,4-Dinitrotoluene	165	8.059	8.059	(1.021)	358245	50.0000	51.3682
102	Dibenzofuran	168	8.077	8.077	(1.023)	1451819	50.0000	51.3317
105	Hexadecane	57	8.212	8.212	(1.040)	575834	50.0000	51.9199
107	Diethyl phthalate	149	8.241	8.241	(1.044)	1136969	50.0000	51.7814
109	4-Chlorophenyl phenyl ether	204	8.359	8.359	(1.059)	580696	50.0000	51.1634
110	Fluorene	166	8.382	8.382	(1.062)	1228475	50.0000	51.2633
112	4-Nitroaniline	138	8.406	8.406	(1.065)	308562	50.0000	51.3552
113	4,6-Dinitro-2-methylphenol	198	8.418	8.418	(0.918)	204828	50.0000	48.9341
115	N-nitrosodiphenylamine	169	8.465	8.465	(0.923)	1029246	50.0000	52.8196
116	Azobenzene	77	8.500	8.500	(1.077)	1142263	50.0000	51.8554

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
234 1,2-DPH(as Azobenzene)	77	8.500	8.500	(1.077)	1142263	50.5487	52.4245
242 2,4,6 - Tribromophenol	330	8.594	8.594	(1.089)	275092	75.0000	75.7683
124 4-Bromophenyl phenyl ether	248	8.782	8.782	(0.958)	343947	50.0000	50.8337
125 Hexachlorobenzene	284	8.847	8.847	(0.965)	364462	50.0000	50.5008
127 Atrazine	200	8.888	8.888	(0.969)	326889	50.0000	53.0505
128 n-Octadecane	85	8.970	8.970	(0.978)	276035	50.0000	52.1979
129 Pentachlorophenol	266	9.005	9.005	(0.982)	226767	50.0000	49.1673
136 Phenanthrene	178	9.187	9.187	(1.002)	1717520	50.0000	51.4851
137 Anthracene	178	9.229	9.229	(1.006)	1741347	50.0000	52.4776
140 Carbazole	167	9.352	9.352	(1.020)	1642586	50.0000	52.0494
141 Alachlor	188	9.417	9.417	(1.027)	224175	50.0000	52.1929
143 Di-n-butyl phthalate	149	9.552	9.552	(1.042)	1861827	50.0000	53.3383
144 n-Eicosane	43	9.616	9.616	(1.218)	401816	50.0000	52.2832
149 Fluoranthene	202	10.128	10.128	(1.104)	1879482	50.0000	52.2916
150 n-docosane	43	10.198	10.198	(1.292)	395382	50.0000	52.8716
151 Benzidine	184	10.216	10.216	(0.906)	927550	50.0000	50.4963
152 Pyrene	202	10.316	10.316	(0.915)	1949269	50.0000	52.2910
158 Famphur	218	10.709	10.709	(0.950)	691123	50.0000	55.5217
159 Butyl benzyl phthalate	149	10.733	10.733	(0.952)	844879	50.0000	53.4517
162 Bis(2-ethylhexyl) phthalate	149	11.138	11.138	(0.988)	1112474	50.0000	54.3749
164 3 3'-Dichlorobenzidine	252	11.220	11.220	(0.995)	619360	50.0000	51.2679
165 Benzo(a)anthracene	228	11.261	11.261	(0.999)	1840128	50.0000	51.8478(H)
167 Chrysene	228	11.297	11.297	(1.002)	1821587	50.0000	51.9523
168 Di-n-octyl phthalate	149	11.649	11.649	(1.033)	1838077	50.0000	51.9760
171 Benzo(b)fluoranthene	252	12.184	12.184	(0.968)	1842809	50.0000	51.0764(H)
172 Benzo(k)fluoranthene	252	12.207	12.207	(0.970)	1910942	50.0000	50.8400
178 Benzo(a)pyrene	252	12.525	12.525	(0.995)	1686370	50.0000	51.7366
185 Dibenz(a,h)anthracene	278	13.900	13.900	(1.105)	1581550	50.0000	51.7452
186 Indeno(1,2,3-cd)pyrene	276	13.900	13.900	(1.233)	1927490	50.0000	52.1629
188 Benzo(g,h,i)perylene	276	14.323	14.323	(1.138)	1614014	50.0000	50.8976

QC Flag Legend

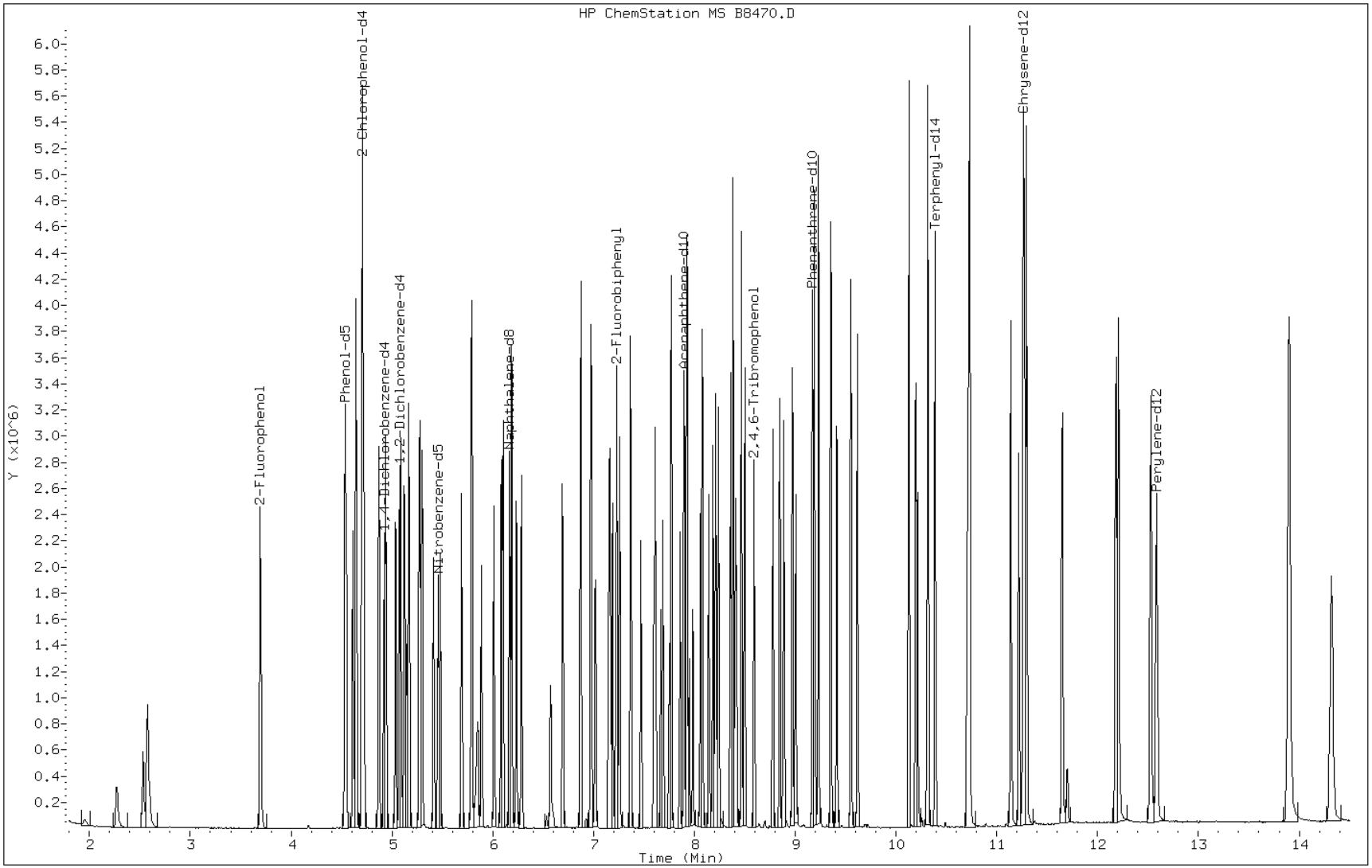
H - Operator selected an alternate compound hit.

Data File: B8470.D

Date: 15-DEC-2011 10:38

Client ID: MS-HSL050_00014 Instrument: B.i

Sample Info: STD050-1148422,,MS-HSL050_00014 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\121511.B\B8471.D
Lab Smp Id: STD120-1148424 Client Smp ID: MS-HSL120_00014
Inj Date : 15-DEC-2011 10:57
Operator : KIEKELD Inst ID: B.i
Smp Info : STD120-1148424,,MS-HSL120_00014
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\121511.B\8270C.m
Meth Date : 15-Dec-2011 13:28 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 15:37 Cal File: B8378.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.922	4.922	(1.000)	303624	40.0000	
* 58 Naphthalene-d8	136	6.167	6.167	(1.000)	1196937	40.0000	
* 96 Acenaphthene-d10	164	7.900	7.900	(1.000)	709663	40.0000	
* 135 Phenanthrene-d10	188	9.170	9.170	(1.000)	1204500	40.0000	
* 166 Chrysene-d12	240	11.279	11.279	(1.000)	1290372	40.0000	
* 179 Perylene-d12	264	12.589	12.589	(1.000)	1173057	40.0000	
$ 22 2-Chlorophenol-d4	132	4.710	4.710	(0.957)	1909383	180.000	175.015
$ 29 1,2-Dichlorobenzene-d4	152	5.074	5.074	(1.031)	891458	120.000	117.282
$ 8 2-Fluorophenol	112	3.694	3.694	(0.751)	1905628	180.000	177.946
$ 15 Phenol-d5	99	4.540	4.540	(0.922)	2302058	180.000	176.843
$ 43 Nitrobenzene-d5	82	5.462	5.462	(0.886)	1356656	120.000	121.191
$ 81 2-Fluorobiphenyl	172	7.231	7.231	(0.915)	2611906	120.000	116.227
$ 118 2,4,6-Tribromophenol	330	8.594	8.594	(1.088)	704474	180.000	194.458
$ 154 Terphenyl-d14	244	10.392	10.392	(0.921)	2940093	120.000	118.094
4 1,4-Dioxane	88	2.266	2.266	(0.460)	527731	120.000	116.352
5 N-Nitrosodimethylamine	74	2.530	2.530	(0.514)	818312	120.000	119.959
6 Pyridine	79	2.571	2.571	(0.523)	1438741	120.000	120.146
16 Phenol	94	4.551	4.551	(0.925)	1571141	120.000	117.317
18 Aniline	93	4.616	4.616	(0.938)	1896386	120.000	117.886
19 Methyl Styrene	118	4.645	4.645	(0.944)	1325758	120.000	119.494
20 Bis(2-chloroethyl) ether	93	4.651	4.651	(0.945)	1195495	120.000	117.000
21 Decane	43	4.710	4.710	(0.957)	949807	120.000	116.001

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
23	2-Chlorophenol	128	4.722	4.722	(0.959)	1296416	120.000	118.559
25	1,3-Dichlorobenzene	146	4.869	4.869	(0.989)	1487795	120.000	117.324
27	1,4-Dichlorobenzene	146	4.939	4.939	(1.004)	1503487	120.000	117.306
28	Benzyl alcohol	108	5.039	5.039	(1.024)	872972	120.000	121.257
30	1,2-Dichlorobenzene	146	5.092	5.092	(1.035)	1399737	120.000	116.454
32	2-Methylphenol	108	5.127	5.127	(1.042)	1222270	120.000	119.295
34	2,2'-oxybis(1-chloropropane)	45	5.151	5.151	(1.047)	1451004	120.000	117.838
35	1H-Indene	116	5.168	5.168	(1.050)	1989991	120.000	118.448
138	3-Methylphenol	108	5.274	5.274	(1.072)	1273490	120.000	119.659
36	4-Methylphenol	108	5.274	5.274	(1.072)	1273490	120.000	119.659
139	3 & 4-Methylphenol	108	5.274	5.274	(1.072)	1273490	120.000	119.659
37	N-nitrosodi-n-propylamine	70	5.286	5.286	(1.074)	877226	120.000	119.766
38	Acetophenone	105	5.304	5.304	(1.078)	1729675	120.000	117.711
41	Hexachloroethane	117	5.415	5.415	(1.100)	576991	120.000	120.150
44	Nitrobenzene	77	5.480	5.480	(0.889)	1333085	120.000	119.838
47	Isophorone	82	5.697	5.697	(0.924)	2271042	120.000	120.307
50	2,4-Dimethylphenol	107	5.797	5.797	(0.940)	1224993	120.000	118.903
49	2-Nitrophenol	139	5.791	5.791	(0.939)	685663	120.000	123.210
53	Benzoic acid	122	5.879	5.879	(0.953)	701776	120.000	124.188
52	Bis(2-chloroethoxy)methane	93	5.891	5.891	(0.955)	1444564	120.000	119.053
54	2,4-Dichlorophenol	162	6.014	6.014	(0.975)	1086811	120.000	122.123
56	n-Dodecane	43	6.085	6.085	(0.770)	983313	120.000	116.323
57	1,2,4-Trichlorobenzene	180	6.103	6.103	(0.990)	1230342	120.000	117.953
59	Naphthalene	128	6.191	6.191	(1.004)	3620492	120.000	114.926
60	4-Chloroaniline	127	6.238	6.238	(1.011)	1568257	120.000	118.710
62	Hexachlorobutadiene	225	6.285	6.285	(1.019)	701543	120.000	118.715
67	Caprolactam	55	6.596	6.596	(1.070)	417760	120.000	119.818
68	4-Chloro-3-methylphenol	107	6.696	6.696	(1.086)	1089240	120.000	121.273
71	2-Methylnaphthalene	142	6.872	6.872	(1.114)	2510853	120.000	116.123
72	1-Methylnaphthalene	142	6.978	6.978	(1.131)	2343781	120.000	114.892
74	Hexachlorocyclopentadiene	237	7.019	7.019	(0.888)	757610	120.000	123.325
78	2,4,6-Trichlorophenol	196	7.154	7.154	(0.906)	757686	120.000	120.742
79	2,3-Dichlorobenzeneamine	161	7.166	7.166	(0.907)	1271678	120.000	116.726
80	2,4,5-Trichlorophenol	196	7.190	7.190	(0.910)	832770	120.000	118.897
83	Tetradecane	43	7.260	7.260	(0.919)	967328	120.000	117.856
86	2-Chloronaphthalene	162	7.372	7.372	(0.933)	2298796	120.000	116.330
88	2-Nitroaniline	65	7.472	7.472	(0.946)	666743	120.000	124.346
91	Dimethyl phthalate	163	7.618	7.618	(0.964)	2585267	120.000	116.451
93	2,6-Dinitrotoluene	165	7.695	7.695	(0.974)	657543	120.000	119.035
94	Acenaphthylene	152	7.771	7.771	(0.984)	3584108	120.000	116.678
95	3-Nitroaniline	138	7.865	7.865	(0.996)	742304	120.000	121.818
97	Acenaphthene	153	7.930	7.930	(1.004)	2304203	120.000	114.740
98	2,4-Dinitrophenol	184	7.953	7.953	(1.007)	391673	120.000	120.323
99	4-Nitrophenol	109	7.994	7.994	(1.012)	396455	120.000	125.413
101	2,4-Dinitrotoluene	165	8.065	8.065	(1.021)	860374	120.000	123.638
102	Dibenzofuran	168	8.083	8.083	(1.023)	3218399	120.000	114.042
105	Hexadecane	57	8.212	8.212	(1.039)	1295571	120.000	117.071
107	Diethyl phthalate	149	8.241	8.241	(1.043)	2551811	120.000	116.473
109	4-Chlorophenyl phenyl ether	204	8.365	8.365	(1.059)	1323333	120.000	116.851
110	Fluorene	166	8.388	8.388	(1.062)	2721460	120.000	113.814
112	4-Nitroaniline	138	8.412	8.412	(1.065)	729038	120.000	121.603
113	4,6-Dinitro-2-methylphenol	198	8.423	8.423	(0.919)	528900	120.000	126.570
115	N-nitrosodiphenylamine	169	8.470	8.470	(0.924)	2268881	120.000	116.634
116	Azobenzene	77	8.500	8.500	(1.076)	2578079	120.000	117.294

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
234 1,2-DPH(as Azobenzene)	77	8.500	8.500	(1.076)	2578079	121.317	118.581
242 2,4,6 - Tribromophenol	330	8.594	8.594	(1.088)	704474	180.000	194.458
124 4-Bromophenyl phenyl ether	248	8.782	8.782	(0.958)	806286	120.000	119.367
125 Hexachlorobenzene	284	8.852	8.852	(0.965)	865574	120.000	120.140
127 Atrazine	200	8.893	8.893	(0.970)	734354	120.000	119.380
128 n-Octadecane	85	8.976	8.976	(0.979)	631777	120.000	119.671
129 Pentachlorophenol	266	9.005	9.005	(0.982)	566926	120.000	123.128
136 Phenanthrene	178	9.193	9.193	(1.003)	3778490	120.000	113.458
137 Anthracene	178	9.234	9.234	(1.007)	3825620	120.000	115.485
140 Carbazole	167	9.358	9.358	(1.021)	3597958	120.000	114.204
141 Alachlor	188	9.416	9.416	(1.027)	521097	120.000	121.528
143 Di-n-butyl phthalate	149	9.551	9.551	(1.042)	4128973	120.000	118.489
144 n-Eicosane	43	9.616	9.616	(1.217)	896285	120.000	116.878
149 Fluoranthene	202	10.133	10.133	(1.105)	4200909	120.000	117.077
150 n-docosane	43	10.198	10.198	(1.291)	883860	120.000	118.452
151 Benzidine	184	10.215	10.215	(0.906)	2403217	120.000	130.151
152 Pyrene	202	10.321	10.321	(0.915)	4291081	120.000	114.513
158 Famphur	218	10.715	10.715	(0.950)	1504277	120.000	120.217
159 Butyl benzyl phthalate	149	10.732	10.732	(0.952)	1851686	120.000	116.538
162 Bis(2-ethylhexyl) phthalate	149	11.138	11.138	(0.987)	2654036	120.000	129.047
164 3 3'-Dichlorobenzidine	252	11.220	11.220	(0.995)	1525377	120.000	125.606
165 Benzo(a)anthracene	228	11.267	11.267	(0.999)	4244903	120.000	118.982(H)
167 Chrysene	228	11.302	11.302	(1.002)	3942113	120.000	111.845
168 Di-n-octyl phthalate	149	11.649	11.649	(1.033)	4451019	120.000	122.973
171 Benzo(b)fluoranthene	252	12.190	12.190	(0.968)	4402796	120.000	122.743(H)
172 Benzo(k)fluoranthene	252	12.213	12.213	(0.970)	4383158	120.000	117.293
178 Benzo(a)pyrene	252	12.530	12.530	(0.995)	3985421	120.000	122.983
185 Dibenz(a,h)anthracene	278	13.911	13.911	(1.105)	3823996	120.000	125.844
186 Indeno(1,2,3-cd)pyrene	276	13.917	13.917	(1.234)	4650396	120.000	125.196
188 Benzo(g,h,i)perylene	276	14.334	14.334	(1.139)	3898547	120.000	123.657

QC Flag Legend

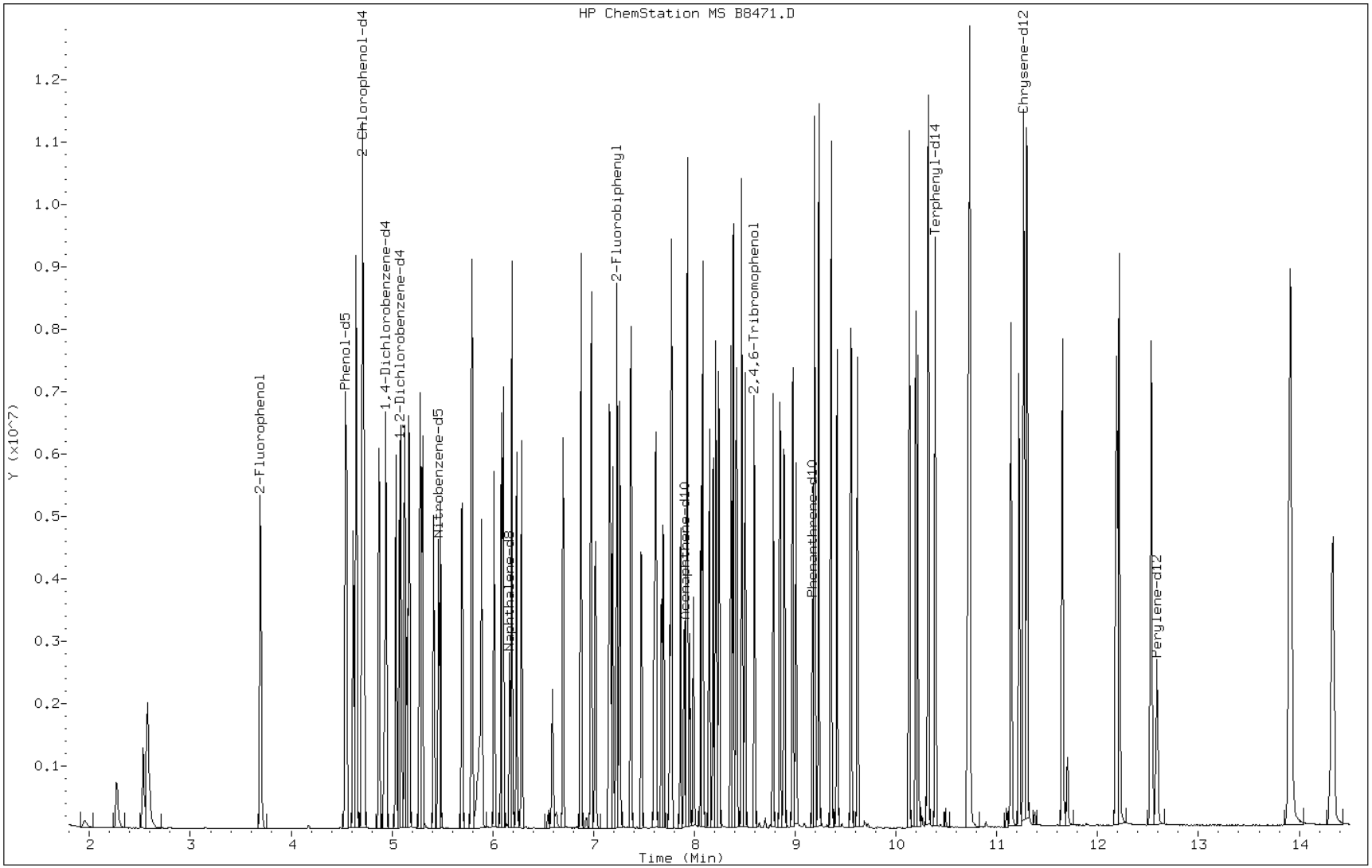
H - Operator selected an alternate compound hit.

Data File: B8471.D

Date: 15-DEC-2011 10:57

Client ID: MS-HSL120_00014 Instrument: B.i

Sample Info: STD120-1148424,,MS-HSL120_00014 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\121511.B\B8472.D
Lab Smp Id: STD160-1148425 Client Smp ID: MS-HSL160_00014
Inj Date : 15-DEC-2011 11:17
Operator : KIEKELD Inst ID: B.i
Smp Info : STD160-1148425,,MS-HSL160_00014
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\121511.B\8270C.m
Meth Date : 15-Dec-2011 13:28 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 15:56 Cal File: B8379.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.926	4.926	(1.000)	305141	40.0000	
* 58 Naphthalene-d8	136	6.166	6.166	(1.000)	1210278	40.0000	
* 96 Acenaphthene-d10	164	7.899	7.899	(1.000)	724772	40.0000	
* 135 Phenanthrene-d10	188	9.174	9.174	(1.000)	1235275	40.0000	
* 166 Chrysene-d12	240	11.272	11.272	(1.000)	1295039	40.0000	
* 179 Perylene-d12	264	12.582	12.582	(1.000)	1179279	40.0000	
$ 22 2-Chlorophenol-d4	132	4.709	4.709	(0.956)	2464566	240.000	224.781
$ 29 1,2-Dichlorobenzene-d4	152	5.073	5.073	(1.030)	1174036	160.000	153.691
$ 8 2-Fluorophenol	112	3.698	3.698	(0.751)	2526659	240.000	234.765
$ 15 Phenol-d5	99	4.539	4.539	(0.921)	3016950	240.000	230.609
$ 43 Nitrobenzene-d5	82	5.461	5.461	(0.886)	1803657	160.000	159.346
$ 81 2-Fluorobiphenyl	172	7.229	7.229	(0.915)	3398422	160.000	148.074
$ 118 2,4,6-Tribromophenol	330	8.598	8.598	(1.089)	963761	240.000	260.484
$ 154 Terphenyl-d14	244	10.390	10.390	(0.922)	3868089	160.000	154.809
4 1,4-Dioxane	88	2.271	2.271	(0.461)	704991	160.000	154.661
5 N-Nitrosodimethylamine	74	2.535	2.535	(0.515)	1099752	160.000	160.415
6 Pyridine	79	2.576	2.576	(0.523)	1896595	160.000	157.593
16 Phenol	94	4.556	4.556	(0.925)	2082864	160.000	154.754
18 Aniline	93	4.621	4.621	(0.938)	2528273	160.000	156.386
19 Methyl Styrene	118	4.644	4.644	(0.943)	1724589	160.000	154.669
20 Bis(2-chloroethyl) ether	93	4.650	4.650	(0.944)	1553619	160.000	151.292
21 Decane	43	4.709	4.709	(0.956)	1217530	160.000	147.959

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
23	2-Chlorophenol	128	4.727	4.727	(0.959)	1693692	160.000	154.120
25	1,3-Dichlorobenzene	146	4.873	4.873	(0.989)	1944997	160.000	152.616
27	1,4-Dichlorobenzene	146	4.944	4.944	(1.004)	1957911	160.000	152.002
28	Benzyl alcohol	108	5.044	5.044	(1.024)	1157540	160.000	159.984
30	1,2-Dichlorobenzene	146	5.091	5.091	(1.033)	1844260	160.000	152.674
32	2-Methylphenol	108	5.126	5.126	(1.041)	1621259	160.000	157.450
34	2,2'-oxybis(1-chloropropane)	45	5.155	5.155	(1.047)	1920458	160.000	155.188
35	1H-Indene	116	5.173	5.173	(1.050)	2599720	160.000	153.971
138	3-Methylphenol	108	5.279	5.279	(1.072)	1663820	160.000	155.558
36	4-Methylphenol	108	5.279	5.279	(1.072)	1663820	160.000	155.558
139	3 & 4-Methylphenol	108	5.279	5.279	(1.072)	1663820	160.000	155.558
37	N-nitrosodi-n-propylamine	70	5.291	5.291	(1.074)	1156881	160.000	157.162
38	Acetophenone	105	5.302	5.302	(1.076)	2269550	160.000	153.683
41	Hexachloroethane	117	5.414	5.414	(1.099)	766388	160.000	158.796
44	Nitrobenzene	77	5.484	5.484	(0.889)	1756357	160.000	156.148
47	Isophorone	82	5.696	5.696	(0.924)	3030052	160.000	158.745
50	2,4-Dimethylphenol	107	5.796	5.796	(0.940)	1603844	160.000	153.960
49	2-Nitrophenol	139	5.790	5.790	(0.939)	906074	160.000	161.022
53	Benzoic acid	122	5.890	5.890	(0.955)	976520	160.000	170.902
52	Bis(2-chloroethoxy)methane	93	5.890	5.890	(0.955)	1910563	160.000	155.722
54	2,4-Dichlorophenol	162	6.013	6.013	(0.975)	1413565	160.000	157.089
56	n-Dodecane	43	6.084	6.084	(0.770)	1297137	160.000	150.249
57	1,2,4-Trichlorobenzene	180	6.101	6.101	(0.990)	1605611	160.000	152.234
59	Naphthalene	128	6.190	6.190	(1.004)	4659113	160.000	146.265
60	4-Chloroaniline	127	6.237	6.237	(1.011)	2055811	160.000	153.901
62	Hexachlorobutadiene	225	6.289	6.289	(1.020)	939524	160.000	157.234
67	Caprolactam	55	6.601	6.601	(1.071)	558568	160.000	158.438
68	4-Chloro-3-methylphenol	107	6.701	6.701	(1.087)	1427139	160.000	157.142
71	2-Methylnaphthalene	142	6.877	6.877	(1.115)	3257987	160.000	149.015
72	1-Methylnaphthalene	142	6.977	6.977	(1.131)	3094122	160.000	150.001
74	Hexachlorocyclopentadiene	237	7.018	7.018	(0.888)	1009505	160.000	160.405
78	2,4,6-Trichlorophenol	196	7.153	7.153	(0.906)	1005783	160.000	156.936
79	2,3-Dichlorobenzeneamine	161	7.165	7.165	(0.907)	1667212	160.000	149.841
80	2,4,5-Trichlorophenol	196	7.194	7.194	(0.911)	1129317	160.000	157.875
83	Tetradecane	43	7.259	7.259	(0.919)	1256056	160.000	149.843
86	2-Chloronaphthalene	162	7.370	7.370	(0.933)	2986865	160.000	147.998
88	2-Nitroaniline	65	7.476	7.476	(0.946)	877468	160.000	160.234
91	Dimethyl phthalate	163	7.617	7.617	(0.964)	3381284	160.000	149.132
93	2,6-Dinitrotoluene	165	7.694	7.694	(0.974)	860765	160.000	152.576
94	Acenaphthylene	152	7.776	7.776	(0.984)	4585205	160.000	146.156
95	3-Nitroaniline	138	7.864	7.864	(0.996)	992147	160.000	159.425
97	Acenaphthene	153	7.929	7.929	(1.004)	2975130	160.000	145.061
98	2,4-Dinitrophenol	184	7.952	7.952	(1.007)	548190	160.000	161.854
99	4-Nitrophenol	109	7.993	7.993	(1.012)	526961	160.000	163.221
101	2,4-Dinitrotoluene	165	8.070	8.070	(1.022)	1139454	160.000	160.329
102	Dibenzofuran	168	8.081	8.081	(1.023)	4186828	160.000	145.265
105	Hexadecane	57	8.211	8.211	(1.039)	1693732	160.000	149.859
107	Diethyl phthalate	149	8.246	8.246	(1.044)	3319126	160.000	148.338
109	4-Chlorophenyl phenyl ether	204	8.363	8.363	(1.059)	1767115	160.000	152.784
110	Fluorene	166	8.387	8.387	(1.062)	3535545	160.000	144.777
112	4-Nitroaniline	138	8.416	8.416	(1.065)	973506	160.000	158.995
113	4,6-Dinitro-2-methylphenol	198	8.422	8.422	(0.918)	709936	160.000	165.661
115	N-nitrosodiphenylamine	169	8.469	8.469	(0.923)	2952606	160.000	148.000
116	Azobenzene	77	8.504	8.504	(1.077)	3343436	160.000	148.944

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
234 1,2-DPH(as Azobenzene)	77	8.504	8.504	(1.077)	3343436	161.756	150.579
242 2,4,6 - Tribromophenol	330	8.598	8.598	(1.089)	963761	240.000	260.484(A)
124 4-Bromophenyl phenyl ether	248	8.781	8.781	(0.957)	1069648	160.000	154.412
125 Hexachlorobenzene	284	8.851	8.851	(0.965)	1165994	160.000	157.805
127 Atrazine	200	8.892	8.892	(0.969)	963005	160.000	152.650
128 n-Octadecane	85	8.975	8.975	(0.978)	822878	160.000	151.986
129 Pentachlorophenol	266	9.010	9.010	(0.982)	772759	160.000	163.651
136 Phenanthrene	178	9.192	9.192	(1.002)	4852403	160.000	142.074
137 Anthracene	178	9.233	9.233	(1.006)	4874114	160.000	143.471
140 Carbazole	167	9.356	9.356	(1.020)	4676623	160.000	144.744
141 Alachlor	188	9.415	9.415	(1.026)	693611	160.000	157.732
143 Di-n-butyl phthalate	149	9.556	9.556	(1.042)	5287648	160.000	147.959
144 n-Eicosane	43	9.621	9.621	(1.218)	1169156	160.000	149.283
149 Fluoranthene	202	10.132	10.132	(1.104)	5318811	160.000	144.540
150 n-docosane	43	10.197	10.197	(1.291)	1149367	160.000	150.823
151 Benzidine	184	10.214	10.214	(0.906)	3078474	160.000	166.120
152 Pyrene	202	10.320	10.320	(0.916)	5488609	160.000	145.942
158 Famphur	218	10.714	10.714	(0.950)	1812388	160.000	144.319
159 Butyl benzyl phthalate	149	10.731	10.731	(0.952)	2386331	160.000	149.645
162 Bis(2-ethylhexyl) phthalate	149	11.137	11.137	(0.988)	3450718	160.000	167.179
164 3 3'-Dichlorobenzidine	252	11.219	11.219	(0.995)	2002263	160.000	164.281
165 Benzo(a)anthracene	228	11.260	11.260	(0.999)	5413183	160.000	151.182(H)
167 Chrysene	228	11.295	11.295	(1.002)	5279648	160.000	149.254
168 Di-n-octyl phthalate	149	11.642	11.642	(1.033)	5775501	160.000	158.526
171 Benzo(b)fluoranthene	252	12.183	12.183	(0.968)	5643237	160.000	156.494(H)
172 Benzo(k)fluoranthene	252	12.206	12.206	(0.970)	5921450	160.000	157.621
178 Benzo(a)pyrene	252	12.523	12.523	(0.995)	5280205	160.000	162.078
185 Dibenz(a,h)anthracene	278	13.904	13.904	(1.105)	5087319	160.000	166.535
186 Indeno(1,2,3-cd)pyrene	276	13.916	13.916	(1.235)	6206264	160.000	166.481
188 Benzo(g,h,i)perylene	276	14.327	14.327	(1.139)	5198418	160.000	164.017

QC Flag Legend

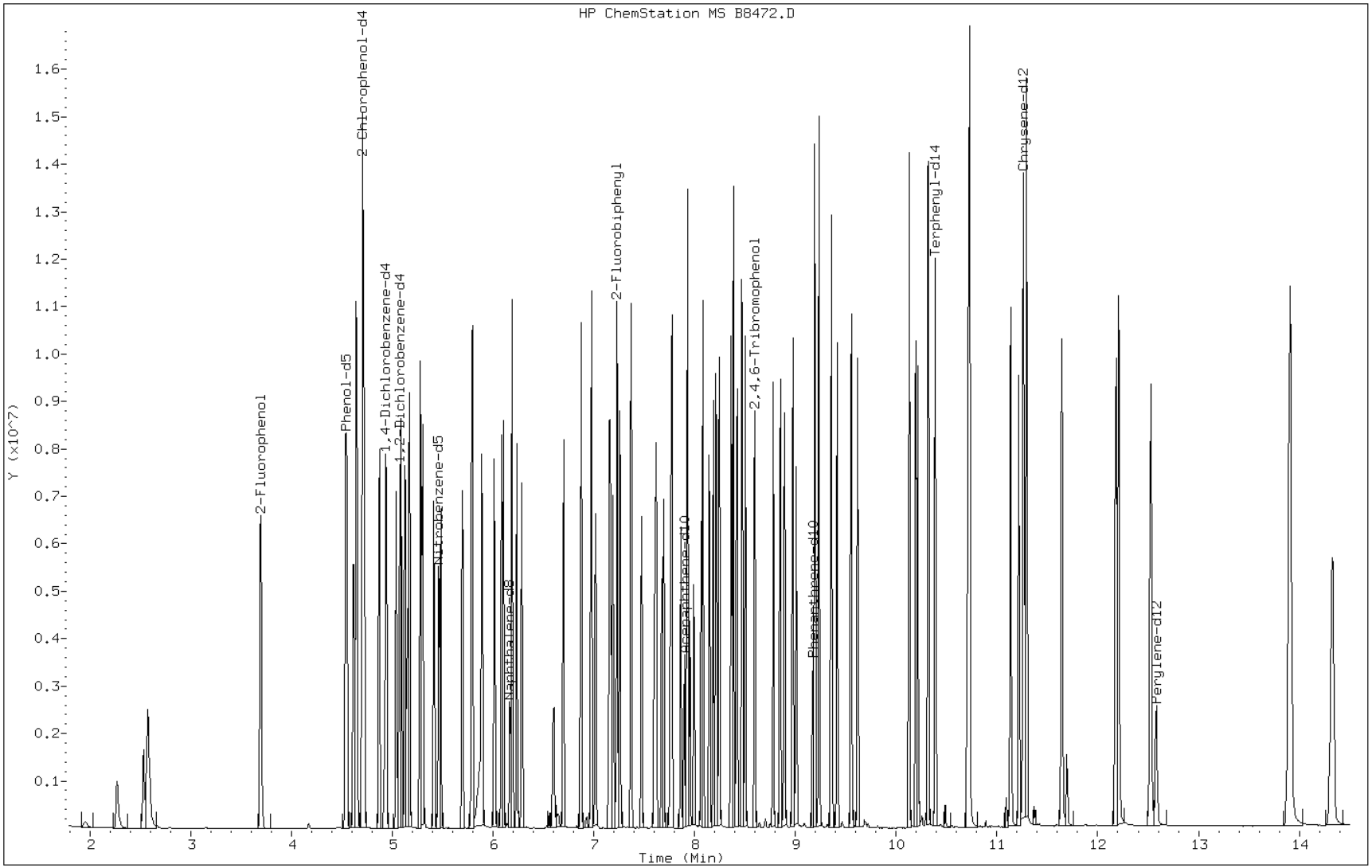
A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: B8472.D

Date: 15-DEC-2011 11:17

Client ID: MS-HSL160_00014 Instrument: B.i

Sample Info: STD160-1148425,,MS-HSL160_00014 Operator: KIEKELD



TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\121511.B\B8473.D
Lab Smp Id: STD200-1148426 Client Smp ID: MS-HSL200_00014
Inj Date : 15-DEC-2011 11:36
Operator : KIEKELD Inst ID: B.i
Smp Info : STD200-1148426,,MS-HSL200_00014
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\121511.B\8270C.m
Meth Date : 15-Dec-2011 13:28 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 16:16 Cal File: B8380.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.926	4.926	(1.000)	300836	40.0000	
* 58 Naphthalene-d8	136	6.172	6.172	(1.000)	1196076	40.0000	
* 96 Acenaphthene-d10	164	7.899	7.899	(1.000)	710863	40.0000	
* 135 Phenanthrene-d10	188	9.174	9.174	(1.000)	1208370	40.0000	
* 166 Chrysene-d12	240	11.277	11.277	(1.000)	1277712	40.0000	
* 179 Perylene-d12	264	12.582	12.582	(1.000)	1171920	40.0000	
$ 22 2-Chlorophenol-d4	132	4.709	4.709	(0.956)	2868948	300.000	265.407
$ 29 1,2-Dichlorobenzene-d4	152	5.073	5.073	(1.030)	1410571	200.000	187.298
$ 8 2-Fluorophenol	112	3.698	3.698	(0.751)	3051871	300.000	287.623
$ 15 Phenol-d5	99	4.544	4.544	(0.922)	3622574	300.000	280.864
$ 43 Nitrobenzene-d5	82	5.467	5.467	(0.886)	2172544	200.000	194.214
$ 81 2-Fluorobiphenyl	172	7.229	7.229	(0.915)	4107031	200.000	182.450
$ 118 2,4,6-Tribromophenol	330	8.598	8.598	(1.089)	1205830	300.000	332.287(A)
$ 154 Terphenyl-d14	244	10.390	10.390	(0.921)	4601254	200.000	186.649
4 1,4-Dioxane	88	2.270	2.270	(0.461)	859158	200.000	191.180
5 N-Nitrosodimethylamine	74	2.535	2.535	(0.515)	1334670	200.000	197.468
6 Pyridine	79	2.576	2.576	(0.523)	2330963	200.000	196.457
16 Phenol	94	4.556	4.556	(0.925)	2504506	200.000	188.745
18 Aniline	93	4.620	4.620	(0.938)	3046097	200.000	191.112
19 Methyl Styrene	118	4.644	4.644	(0.943)	2070383	200.000	188.338
20 Bis(2-chloroethyl) ether	93	4.656	4.656	(0.945)	1882575	200.000	185.949
21 Decane	43	4.709	4.709	(0.956)	1428409	200.000	176.070

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
23	2-Chlorophenol	128	4.726	4.726	(0.959)	2026009	200.000	186.998
25	1,3-Dichlorobenzene	146	4.873	4.873	(0.989)	2320879	200.000	184.716
27	1,4-Dichlorobenzene	146	4.944	4.944	(1.004)	2351366	200.000	185.160
28	Benzyl alcohol	108	5.043	5.043	(1.024)	1415409	200.000	198.424
30	1,2-Dichlorobenzene	146	5.090	5.090	(1.033)	2182587	200.000	183.268
32	2-Methylphenol	108	5.132	5.132	(1.042)	1953262	200.000	192.407
34	2,2'-oxybis(1-chloropropane)	45	5.155	5.155	(1.047)	2321451	200.000	190.276
35	1H-Indene	116	5.173	5.173	(1.050)	3103412	200.000	186.433
138	3-Methylphenol	108	5.278	5.278	(1.072)	2020183	200.000	191.578
36	4-Methylphenol	108	5.278	5.278	(1.072)	2020183	200.000	191.578
139	3 & 4-Methylphenol	108	5.278	5.278	(1.072)	2020183	200.000	191.578
37	N-nitrosodi-n-propylamine	70	5.290	5.290	(1.074)	1408388	200.000	194.067
38	Acetophenone	105	5.308	5.308	(1.078)	2719196	200.000	186.766
41	Hexachloroethane	117	5.414	5.414	(1.099)	918727	200.000	193.084
44	Nitrobenzene	77	5.484	5.484	(0.889)	2109102	200.000	189.735
47	Isophorone	82	5.702	5.702	(0.924)	3679675	200.000	195.068
50	2,4-Dimethylphenol	107	5.796	5.796	(0.939)	1912933	200.000	185.811
49	2-Nitrophenol	139	5.790	5.790	(0.938)	1104079	200.000	198.540
53	Benzoic acid	122	5.901	5.901	(0.956)	1250291	200.000	221.414(A)
52	Bis(2-chloroethoxy)methane	93	5.890	5.890	(0.954)	2285378	200.000	188.484
54	2,4-Dichlorophenol	162	6.013	6.013	(0.974)	1692554	200.000	190.326
56	n-Dodecane	43	6.083	6.083	(0.770)	1549005	200.000	182.933
57	1,2,4-Trichlorobenzene	180	6.107	6.107	(0.990)	1921471	200.000	184.345
59	Naphthalene	128	6.189	6.189	(1.003)	5524081	200.000	175.478
60	4-Chloroaniline	127	6.236	6.236	(1.010)	2485991	200.000	188.314
62	Hexachlorobutadiene	225	6.289	6.289	(1.019)	1145239	200.000	193.937
67	Caprolactam	55	6.612	6.612	(1.071)	693741	200.000	199.116
68	4-Chloro-3-methylphenol	107	6.700	6.700	(1.086)	1745013	200.000	194.424
71	2-Methylnaphthalene	142	6.877	6.877	(1.114)	3813847	200.000	176.511
72	1-Methylnaphthalene	142	6.977	6.977	(1.130)	3670849	200.000	180.074
74	Hexachlorocyclopentadiene	237	7.018	7.018	(0.888)	1239443	200.000	200.383(A)
78	2,4,6-Trichlorophenol	196	7.153	7.153	(0.906)	1219001	200.000	193.927
79	2,3-Dichlorobenzeneamine	161	7.170	7.170	(0.908)	2005473	200.000	183.769
80	2,4,5-Trichlorophenol	196	7.194	7.194	(0.911)	1380500	200.000	196.766
83	Tetradecane	43	7.259	7.259	(0.919)	1520376	200.000	184.924
86	2-Chloronaphthalene	162	7.370	7.370	(0.933)	3564116	200.000	180.056
88	2-Nitroaniline	65	7.476	7.476	(0.946)	1075383	200.000	200.218(A)
91	Dimethyl phthalate	163	7.623	7.623	(0.965)	4103580	200.000	184.530
93	2,6-Dinitrotoluene	165	7.693	7.693	(0.974)	1061052	180.000	191.758
94	Acenaphthylene	152	7.776	7.776	(0.984)	5448058	200.000	177.058
95	3-Nitroaniline	138	7.870	7.870	(0.996)	1199818	200.000	196.568
97	Acenaphthene	153	7.928	7.928	(1.004)	3557490	200.000	176.849
98	2,4-Dinitrophenol	184	7.958	7.958	(1.007)	685988	200.000	204.238(A)
99	4-Nitrophenol	109	7.999	7.999	(1.013)	639079	200.000	201.822(A)
101	2,4-Dinitrotoluene	165	8.069	8.069	(1.022)	1378508	200.000	197.761
102	Dibenzofuran	168	8.087	8.087	(1.024)	4943934	200.000	174.890
105	Hexadecane	57	8.210	8.210	(1.039)	2018627	200.000	182.100
107	Diethyl phthalate	149	8.246	8.246	(1.044)	3937956	200.000	179.438
109	4-Chlorophenyl phenyl ether	204	8.363	8.363	(1.059)	2129410	200.000	187.710
110	Fluorene	166	8.387	8.387	(1.062)	4202673	200.000	175.462
112	4-Nitroaniline	138	8.422	8.422	(1.066)	1169074	200.000	194.671
113	4,6-Dinitro-2-methylphenol	198	8.428	8.428	(0.919)	891033	200.000	212.549(A)
115	N-nitrosodiphenylamine	169	8.475	8.475	(0.924)	3524439	200.000	180.596
116	Azobenzene	77	8.504	8.504	(1.077)	3990110	200.000	181.230

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
234 1,2-DPH(as Azobenzene)	77	8.504	8.504	(1.077)	3990110	202.195	183.219
242 2,4,6 - Tribromophenol	330	8.598	8.598	(1.089)	1205830	300.000	332.287(A)
124 4-Bromophenyl phenyl ether	248	8.780	8.780	(0.957)	1329144	200.000	196.144
125 Hexachlorobenzene	284	8.851	8.851	(0.965)	1433968	200.000	198.394
127 Atrazine	200	8.892	8.892	(0.969)	1151358	200.000	186.570
128 n-Octadecane	85	8.974	8.974	(0.978)	992144	200.000	187.329
129 Pentachlorophenol	266	9.009	9.009	(0.982)	964533	200.000	208.812(A)
136 Phenanthrene	178	9.192	9.192	(1.002)	5680588	200.000	170.026
137 Anthracene	178	9.233	9.233	(1.006)	5771557	200.000	173.670
140 Carbazole	167	9.356	9.356	(1.020)	5506972	200.000	174.238
141 Alachlor	188	9.415	9.415	(1.026)	843912	200.000	196.184
143 Di-n-butyl phthalate	149	9.556	9.556	(1.042)	6287683	200.000	179.859
144 n-Eicosane	43	9.615	9.615	(1.217)	1385784	200.000	180.405
149 Fluoranthene	202	10.132	10.132	(1.104)	6332959	200.000	175.931
150 n-docosane	43	10.196	10.196	(1.291)	1354499	200.000	181.218
151 Benzidine	184	10.214	10.214	(0.906)	3753153	200.000	205.273(A)
152 Pyrene	202	10.320	10.320	(0.915)	6422577	200.000	173.093
158 Famphur	218	10.713	10.713	(0.950)	2057658	200.000	166.071
159 Butyl benzyl phthalate	149	10.731	10.731	(0.952)	2846964	200.000	180.952
162 Bis(2-ethylhexyl) phthalate	149	11.136	11.136	(0.987)	4176524	200.000	205.087(A)
164 3 3'-Dichlorobenzidine	252	11.219	11.219	(0.995)	2487531	200.000	206.864(A)
165 Benzo(a)anthracene	228	11.266	11.266	(0.999)	6474048	200.000	183.262(H)
167 Chrysene	228	11.295	11.295	(1.002)	6141410	200.000	175.970
168 Di-n-octyl phthalate	149	11.647	11.647	(1.033)	6976855	200.000	193.742
171 Benzo(b)fluoranthene	252	12.188	12.188	(0.969)	7031237	200.000	196.209(H)
172 Benzo(k)fluoranthene	252	12.212	12.212	(0.971)	7090926	200.000	189.936
178 Benzo(a)pyrene	252	12.535	12.535	(0.996)	6408328	200.000	197.942
185 Dibenz(a,h)anthracene	278	13.915	13.915	(1.106)	6254524	200.000	206.029(A)
186 Indeno(1,2,3-cd)pyrene	276	13.921	13.921	(1.234)	7671853	200.000	208.585(A)
188 Benzo(g,h,i)perylene	276	14.338	14.338	(1.140)	6423462	200.000	203.942(A)

QC Flag Legend

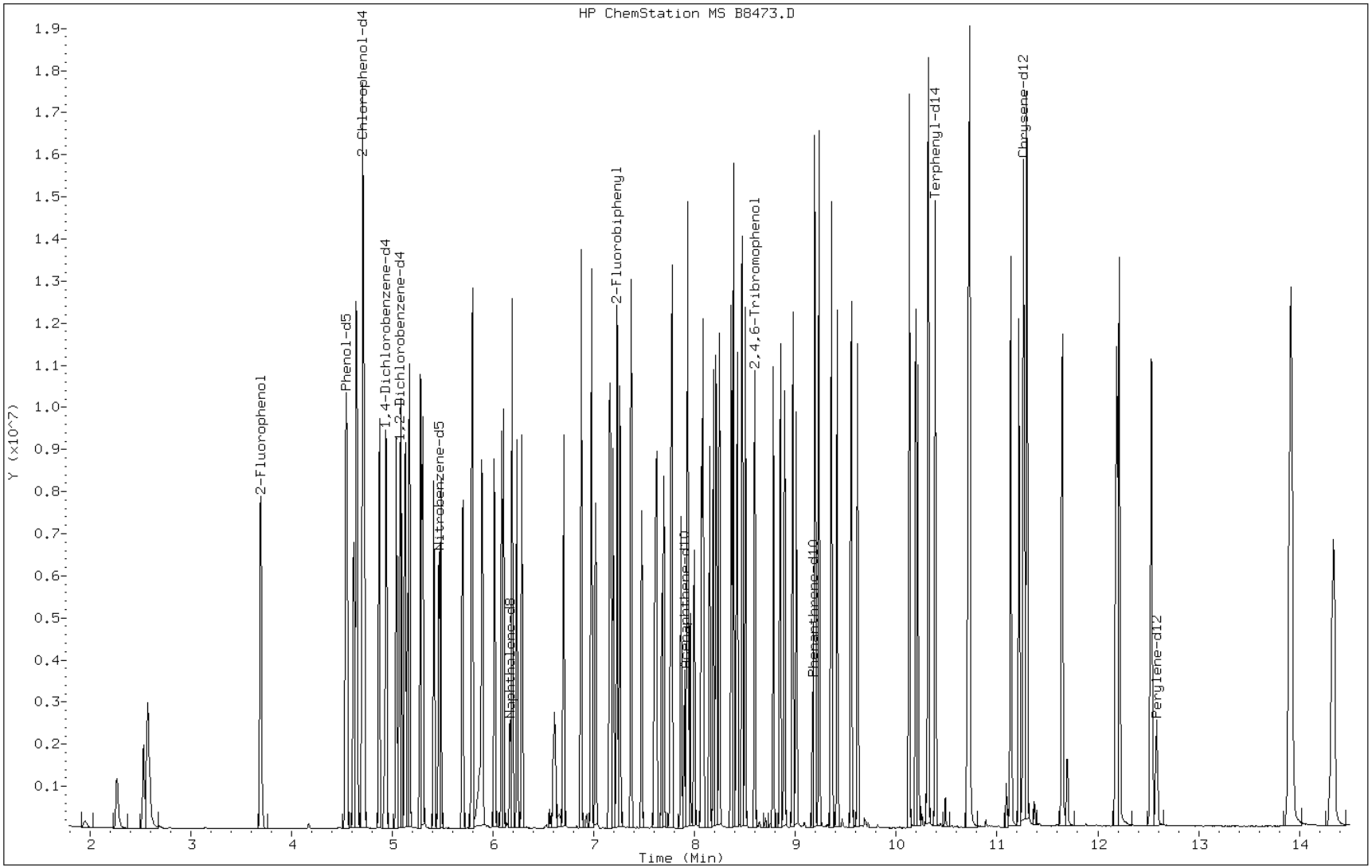
A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: B8473.D

Date: 15-DEC-2011 11:36

Client ID: MS-HSL200_00014 Instrument: B.i

Sample Info: STD200-1148426,,MS-HSL200_00014 Operator: KIEKELD



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICV 280-99260/9 Calibration Date: 12/05/2011 16:38

Instrument ID: MSS_B Calib Start Date: 12/05/2011 14:21

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 12/05/2011 16:18

Lab File ID: B8342.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.148	1.158		101	100	0.9	35.0

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\B8342.D
Lab Smp Id: ICV-1002566 Client Smp ID: MS-BZHDSSV100_00010
Inj Date : 05-DEC-2011 16:38
Operator : KIEKELD Inst ID: B.i
Smp Info : ICV-1002566,,MS-BZHDSSV100_00010
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\8270C.m
Meth Date : 08-Dec-2011 14:33 B.i Quant Type: ISTD
Cal Date : 05-DEC-2011 16:18 Cal File: B8341.D
Als bottle: 17 QC Sample: SSV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzaldehyde.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

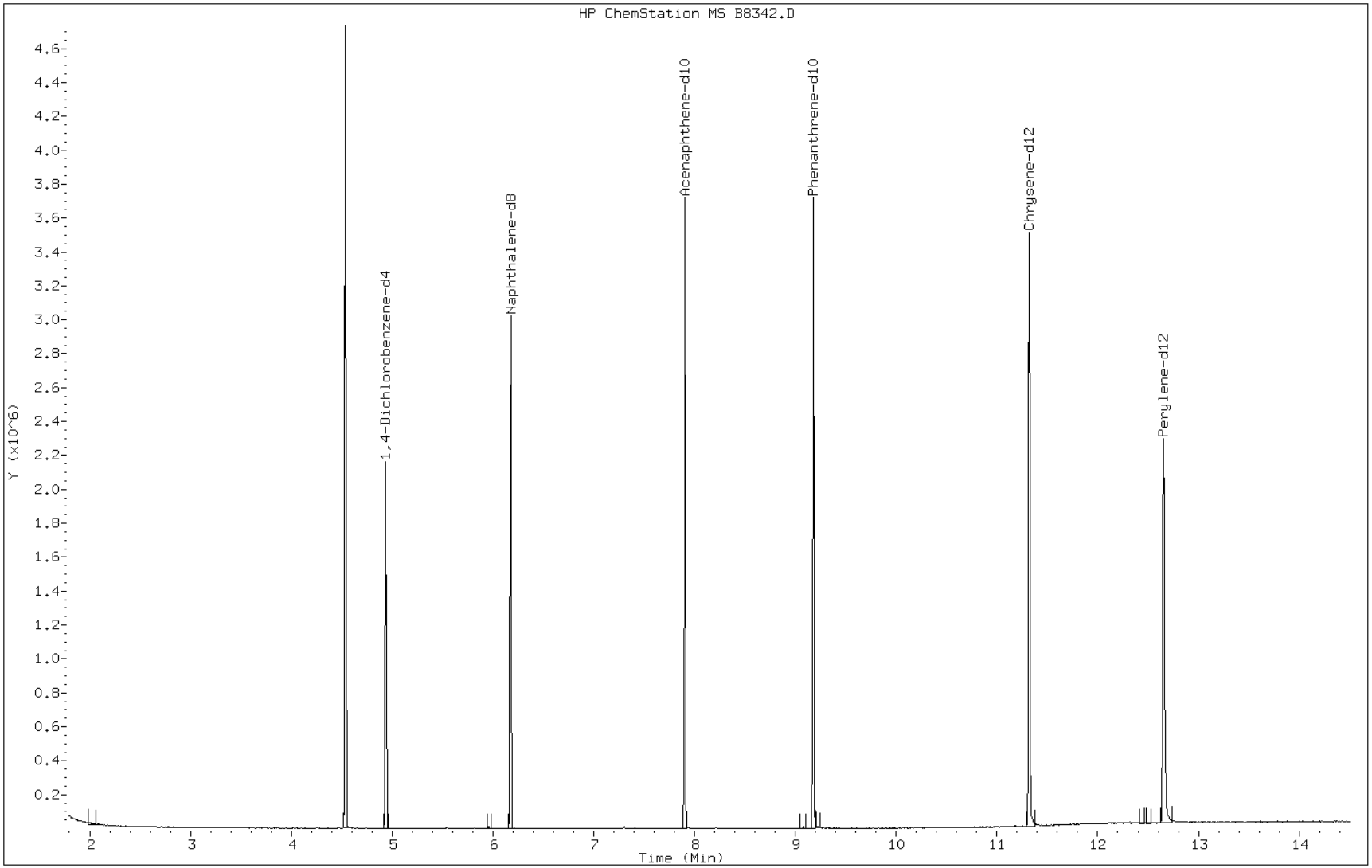
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 26 1,4-Dichlorobenzene-d4	152	4.938	4.936	(1.000)	315487	40.0000	
* 58 Naphthalene-d8	136	6.178	6.176	(1.000)	1214061	40.0000	
* 96 Acenaphthene-d10	164	7.905	7.903	(1.000)	691120	40.0000	
* 135 Phenanthrene-d10	188	9.180	9.178	(1.000)	1179202	40.0000	
* 166 Chrysene-d12	240	11.319	11.311	(1.000)	1234842	40.0000	
* 179 Perylene-d12	264	12.653	12.639	(1.000)	1076466	40.0000	
14 Benzaldehyde	106	4.533	4.536	(0.918)	913493	100.889	100.889

Data File: B8342.D

Date: 05-DEC-2011 16:38

Client ID: MS-BZHDSSV100_00010 Instrument: B.i

Sample Info: ICV-1002566,,MS-BZHDSSV100_00010 Operator: KIEKELD



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICV 280-99305/9 Calibration Date: 12/06/2011 16:55

Instrument ID: MSS_B Calib Start Date: 12/06/2011 14:38

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 12/06/2011 16:36

Lab File ID: B8382.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl methanesulfonate	Ave	1.060	0.9787		92.3	100	-7.7	50.0
N-Nitrosopyrrolidine	Ave	0.7064	0.6550		92.7	100	-7.3	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1790	0.1674		93.5	100	-6.5	35.0
2,6-Dichlorophenol	Ave	0.2896	0.2730		94.3	100	-5.7	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.3394	0.3111		91.7	100	-8.3	35.0
1,1'-Biphenyl	Ave	1.468	1.288		87.7	100	-12.3	35.0
2,3,4,6-Tetrachlorophenol	Ave	0.3132	0.3044		97.2	100	-2.8	35.0
Thionazin	Ave	0.2750	0.2609		94.9	100	-5.1	35.0
Diphenylamine	Ave	1.110	0.9838		88.6	100	-11.4	50.0
Sulfotepp	Ave	0.1173	0.0897		76.5	100	-23.5	35.0
Dimethoate	Ave	0.2266	0.2261		99.8	100	-0.2	35.0
Pentachloronitrobenzene	Ave	0.0941	0.0883		93.9	100	-6.1	50.0
Disulfoton	Ave	0.3482	0.2991		85.9	100	-14.1	35.0
Methyl parathion	Ave	0.2161	0.2248		104	100	4.0	35.0
Ethyl Parathion	Ave	0.1399	0.1362		97.4	100	-2.6	35.0
4-Nitroquinoline-1-oxide	Lin2	0.1141	0.1177		96.9	100	-3.1	50.0
Isodrin	Ave	0.1262	0.1122		88.9	100	-11.1	50.0
p-Dimethylamino azobenzene	Ave	0.3042	0.2695		88.6	100	-11.4	50.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5825	0.4611		79.2	100	-20.8	50.0
3-Methylcholanthrene	Ave	0.5905	0.5261		89.1	100	-10.9	50.0

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\B8382.D
Lab Smp Id: ICV-1149061 Client Smp ID: MS-AP9SSV1_00019
Inj Date : 06-DEC-2011 16:55
Operator : KIEKELD Inst ID: B.i
Smp Info : ICV-1149061,,MS-AP9SSV1_00019
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\8270C.m
Meth Date : 08-Dec-2011 16:38 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 16:36 Cal File: B8381.D
Als bottle: 28 QC Sample: SSV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AP9SSV1.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 26 1,4-Dichlorobenzene-d4	152	4.937	4.936	(1.000)	283438	40.0000	
* 58 Naphthalene-d8	136	6.177	6.176	(1.000)	1106545	40.0000	
* 96 Acenaphthene-d10	164	7.904	7.909	(1.000)	658895	40.0000	
* 135 Phenanthrene-d10	188	9.179	9.178	(1.000)	1128388	40.0000	
* 166 Chrysene-d12	240	11.294	11.299	(1.000)	1190009	40.0000	
* 179 Perylene-d12	264	12.616	12.627	(1.000)	1078221	40.0000	
9 2-Picoline	93	3.239	3.232	(0.656)	720390	69.8620	69.8620
10 N-Nitrosomethylethylamine	88	3.327	3.326	(0.674)	394541	85.7309	85.7309
11 Methyl methanesulfonate	80	3.586	3.591	(0.726)	352853	120.039	120.039
12 N-Nitrosodiethylamine	102	3.944	3.943	(0.799)	438512	91.2294	91.2294
13 Ethyl methanesulfonate	79	4.203	4.202	(0.851)	693532	92.3417	92.3417
24 Pentachloroethane	117	4.678	4.678	(0.948)	334399	87.7019	87.7019
39 N-Nitrosopyrrolidine	100	5.307	5.312	(1.075)	464137	92.7310	92.7310(Q)
40 N-Nitrosomorpholine	116	5.337	5.342	(1.081)	195902	89.9539	89.9539
42 o-Toluidine	106	5.348	5.353	(1.083)	1428797	90.1835	90.1834
46 N-Nitrosopiperidine	114	5.636	5.641	(0.912)	477415	98.5074	98.5074
51 O,O,O-Triethyl phosphorothio	198	5.854	5.853	(0.948)	463004	93.4948	93.4948
55 a,a-Dimethylphenethylamine	58	Compound Not Detected.					
61 2,6-Dichlorophenol	162	6.247	6.252	(1.011)	755083	94.2548	94.2548
63 Hexachloropropene	213	6.277	6.276	(1.016)	615902	96.0604	96.0604
64 N-Nitrosodi-n-butylamine	84	6.547	6.546	(1.060)	592650	96.7715	96.7715
66 p-Phenylenediamine	108	6.606	6.605	(1.069)	1035510	78.7476	78.7476(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
70	Safrole	162	6.776	6.775	(1.097)	665154	86.2333	86.2333
75	1,2,4,5-Tetrachlorobenzene	216	7.052	7.051	(1.142)	860589	91.6648	91.6648
76	Isosafrole (#1)	162	7.070	7.069	(0.894)	119340	14.7752	14.7752
84	Isosafrole (#2)	104	7.299	7.298	(0.923)	350032	79.0733	79.0733
85	Biphenyl	154	7.346	7.345	(0.929)	2121181	87.7129	87.7128
87	1-Chloronaphthalene	162	7.405	7.404	(0.937)	1482305	82.0027	82.0027
89	1,4-Naphthoquinone	158	7.557	7.557	(0.956)	623541	112.483	112.483
90	1,4-Dinitrobenzene	168	7.610	7.609	(0.963)	294905	93.5259	93.5259
92	1,3-Dinitrobenzene	168	7.681	7.680	(0.972)	332231	96.7444	96.7444
100	Pentachlorobenzene	250	8.051	8.050	(1.019)	758134	92.3250	92.3250
103	1-Naphthylamine	143	8.169	8.174	(1.033)	1827959	88.8456	88.8456
104	2,3,4,6-Tetrachlorophenol	232	8.192	8.197	(1.036)	501420	97.1768	97.1768
106	2-Naphthylamine	143	8.239	8.238	(1.042)	1854968	87.4509	87.4509
108	Thionazin	97	8.327	8.326	(1.054)	429810	94.8912	94.8912
111	5-Nitro-o-toluidine	152	8.409	8.409	(1.064)	603019	96.8539	96.8539
114	Diphenylamine	169	8.480	8.479	(1.073)	1620585	88.6359	88.6359
117	Sulfotepp	97	8.562	8.561	(0.933)	253154	76.5347	76.5347
119	Diallate (#1)	86	8.691	8.691	(0.947)	653055	69.2926	69.2926
122	Phenacetin	108	8.727	8.732	(0.951)	904784	92.5215	92.5215
123	Diallate (#2)	86	8.774	8.773	(0.956)	134957	26.7388	26.7388
126	Dimethoate	87	8.868	8.873	(0.966)	637900	99.7989	99.7989
130	4-Aminobiphenyl	169	9.015	9.014	(0.982)	2038815	89.3807	89.3807
131	Pentachloronitrobenzene	237	9.026	9.025	(0.983)	249147	93.8665	93.8665
133	Disulfoton	88	9.126	9.125	(0.994)	843742	85.8989	85.8988
134	2-secbutyl-4,6-dinitropheno	211	9.138	9.137	(0.996)	489600	97.0294	97.0294
142	Methyl parathion	109	9.443	9.443	(1.029)	634021	104.027	104.027
145	Parathion	109	9.726	9.731	(1.060)	384202	97.3723	97.3723
146	4-Nitroquinoline-1-oxide	190	9.820	9.825	(1.070)	332008	96.8948	96.8948(Q)
147	Methapyrilene	97	9.825	9.825	(1.070)	690888	91.1261	91.1261
148	Isodrin	193	10.013	10.018	(1.091)	316493	88.9339	88.9339
156	p-Dimethylaminoazobenzene	120	10.507	10.512	(0.930)	801669	88.5934	88.5934
157	Chlorobenzilate	251	10.525	10.524	(0.932)	825147	91.1324	91.1324
160	3,3'-Dimethylbenzidine	212	10.789	10.794	(0.955)	1766548	90.8627	90.8626
161	2-Acetylaminofluorene	181	11.000	11.011	(0.974)	1174545	95.5507	95.5507
M 173	Total Isosafrole	162				469372	93.8485	93.8485
M 174	Total Diallate	86				788012	96.0314	96.0314
176	7,12-Dimethylbenz(a)anthrac	256	12.193	12.198	(0.966)	1242927	79.1577	79.1577
181	3-Methylcholanthrene	268	12.904	12.921	(1.023)	1418086	89.0937	89.0937
184	Dibenz(a,j)acridine	279	13.662	13.685	(1.083)	2117283	91.0221	91.0221

QC Flag Legend

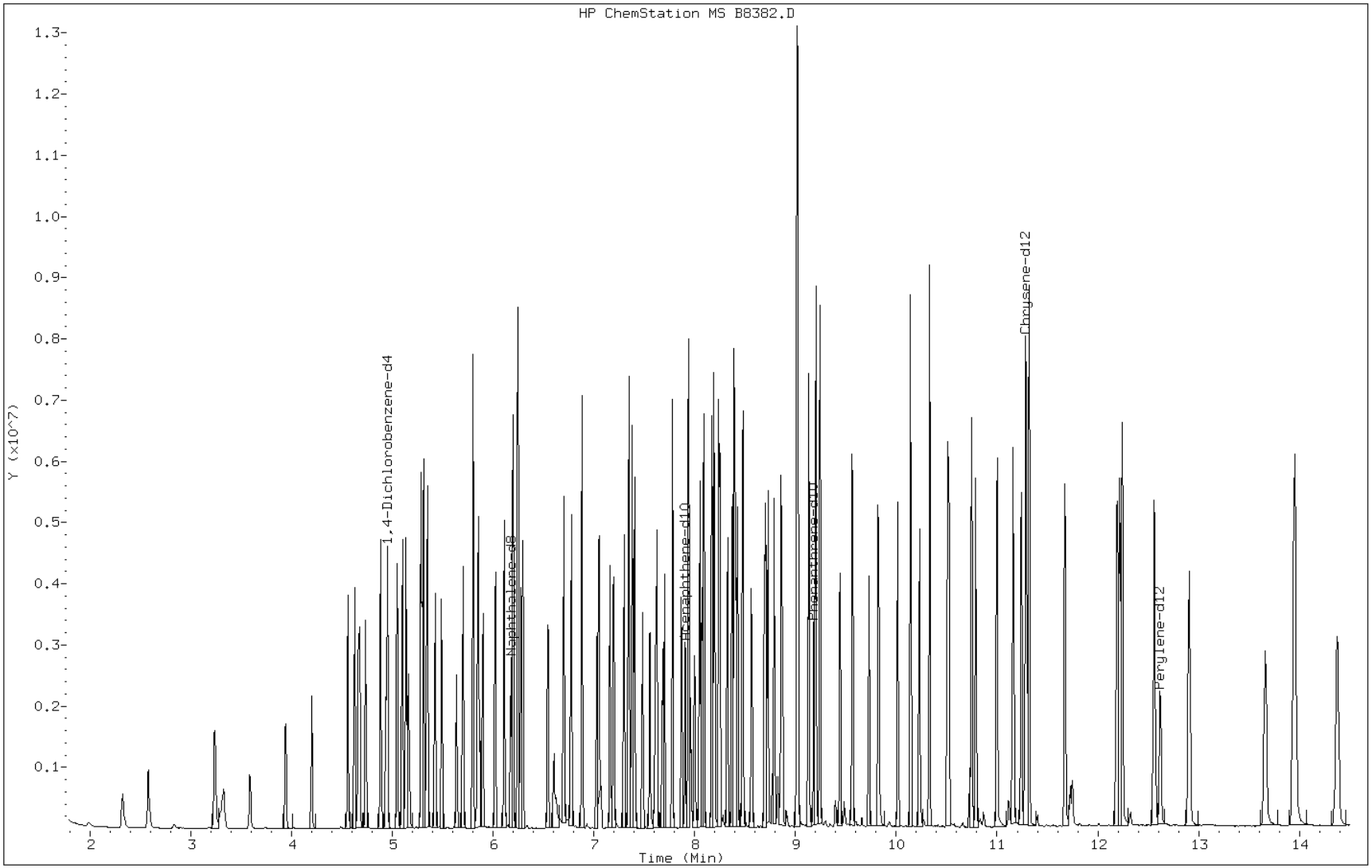
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: B8382.D

Date: 06-DEC-2011 16:55

Client ID: MS-AP9SSV1_00019 Instrument: B.i

Sample Info: ICV-1149061,,MS-AP9SSV1_00019 Operator: KIEKELD



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICV 280-100158/10 Calibration Date: 12/15/2011 11:55

Instrument ID: MSS_B Calib Start Date: 12/15/2011 09:20

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 12/15/2011 11:36

Lab File ID: B8474.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5975	0.6081		81.4	80.0	1.8	35.0
N-Nitrosodimethylamine	Ave	0.8987	0.9313		82.9	80.0	3.6	20.0
Pyridine	Ave	1.578	1.634		82.9	80.0	3.6	35.0
Phenol	Ave	1.764	1.825		82.8	80.0	3.4	20.0
Aniline	Ave	2.119	2.074		78.3	80.0	-2.1	35.0
Bis(2-chloroethyl)ether	Ave	1.346	1.401		83.2	80.0	4.0	20.0
2-Chlorophenol	Ave	1.441	1.503		83.5	80.0	4.4	20.0
1,3-Dichlorobenzene	Ave	1.671	1.723		82.5	80.0	3.1	20.0
1,4-Dichlorobenzene	Ave	1.689	1.753		83.0	80.0	3.8	20.0
Benzyl alcohol	Ave	0.9485	1.005		84.8	80.0	6.0	20.0
1,2-Dichlorobenzene	Ave	1.583	1.663		84.0	80.0	5.0	20.0
2-Methylphenol	Ave	1.350	1.398		82.9	80.0	3.6	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.622	1.665		82.1	80.0	2.6	20.0
4-Methylphenol	Ave	1.402	1.461		83.4	80.0	4.2	35.0
N-Nitrosodi-n-propylamine	Ave	0.9649	1.041	0.0500	86.3	80.0	7.9	20.0
Acetophenone	Ave	1.936	1.912		79.0	80.0	-1.2	35.0
Hexachloroethane	Ave	0.6327	0.6544		82.7	80.0	3.4	20.0
Nitrobenzene	Ave	0.3718	0.3945		84.9	80.0	6.1	20.0
Isophorone	Ave	0.6308	0.6792		86.1	80.0	7.7	20.0
2-Nitrophenol	Ave	0.1860	0.2044		87.9	80.0	9.9	20.0
2,4-Dimethylphenol	Ave	0.3443	0.3720		86.4	80.0	8.0	20.0
Benzoic acid	Ave	0.1888	0.2337		99.0	80.0	23.7*	20.0
Bis(2-chloroethoxy)methane	Ave	0.4055	0.4213		83.1	80.0	3.9	20.0
2,4-Dichlorophenol	Ave	0.2974	0.3108		83.6	80.0	4.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3486	0.3459		79.4	80.0	-0.8	20.0
Naphthalene	Ave	1.053	1.052		80.0	80.0	-0.0	20.0
4-Chloroaniline	Ave	0.4415	0.4498		81.5	80.0	1.9	20.0
Hexachlorobutadiene	Ave	0.1975	0.2042		82.7	80.0	3.4	20.0
Caprolactam	Ave	0.1165	0.1220		83.8	80.0	4.7	35.0
4-Chloro-3-methylphenol	Ave	0.3002	0.3179		84.7	80.0	5.9	20.0
2-Methylnaphthalene	Ave	0.7226	0.7214		79.9	80.0	-0.2	20.0
1-Methylnaphthalene	Ave	0.6817	0.7030		82.5	80.0	3.1	35.0
Hexachlorocyclopentadiene	Lin2	0.3343	0.4201		97.4	80.0	21.8	35.0
2,4,6-Trichlorophenol	Ave	0.3537	0.3889		88.0	80.0	10.0	20.0
2,4,5-Trichlorophenol	Ave	0.3948	0.4224		85.6	80.0	7.0	20.0
2-Chloronaphthalene	Ave	1.114	1.156		83.0	80.0	3.8	20.0
2-Nitroaniline	Ave	0.3022	0.3341		88.4	80.0	10.6	20.0
Dimethyl phthalate	Ave	1.251	1.309		83.7	80.0	4.6	20.0
2,6-Dinitrotoluene	Ave	0.3114	0.3139		80.6	80.0	0.8	20.0
Acenaphthylene	Ave	1.731	1.858		85.8	80.0	7.3	20.0
3-Nitroaniline	Ave	0.3435	0.3721		86.7	80.0	8.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICV 280-100158/10 Calibration Date: 12/15/2011 11:55

Instrument ID: MSS_B Calib Start Date: 12/15/2011 09:20

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 12/15/2011 11:36

Lab File ID: B8474.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acenaphthene	Ave	1.132	1.130		79.9	80.0	-0.1	20.0
2,4-Dinitrophenol	Lin2	0.1693	0.1748	0.0500	79.2	80.0	-1.0	20.0
4-Nitrophenol	Ave	0.1782	0.1992	0.0500	89.5	80.0	11.8	20.0
2,4-Dinitrotoluene	Ave	0.3922	0.4298		87.7	80.0	9.6	20.0
Dibenzofuran	Ave	1.591	1.668		83.9	80.0	4.8	20.0
Diethyl phthalate	Ave	1.235	1.276		82.7	80.0	3.3	20.0
4-Chlorophenyl phenyl ether	Ave	0.6383	0.6644		83.3	80.0	4.1	20.0
Fluorene	Ave	1.348	1.355		80.4	80.0	0.5	20.0
4-Nitroaniline	Ave	0.3379	0.3702		87.6	80.0	9.6	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1388	0.1505		86.7	80.0	8.4	20.0
N-Nitrosodiphenylamine	Ave	0.6460	0.6519		68.9	68.3	0.9	20.0
1,2-Diphenylhydrazine	Ave	1.225	1.319		87.1	80.9	7.6	20.0
4-Bromophenyl phenyl ether	Ave	0.2243	0.2312		82.5	80.0	3.1	20.0
Hexachlorobenzene	Ave	0.2393	0.2510		83.9	80.0	4.9	20.0
Atrazine	Ave	0.2043	0.1668		65.3	80.0	-18.4	35.0
Pentachlorophenol	Ave	0.1529	0.1563		81.8	80.0	2.2	20.0
Phenanthrene	Ave	1.106	1.110		80.3	80.0	0.3	20.0
Anthracene	Ave	1.100	1.125		81.8	80.0	2.2	20.0
Carbazole	Ave	1.046	1.080		82.6	80.0	3.3	20.0
Di-n-butyl phthalate	Ave	1.157	1.253		86.6	80.0	8.3	20.0
Fluoranthene	Ave	1.192	1.219		81.9	80.0	2.3	20.0
Pyrene	Ave	1.162	1.165		80.2	80.0	0.3	20.0
Butyl benzyl phthalate	Ave	0.4925	0.5280		85.8	80.0	7.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6375	0.7210		90.5	80.0	13.1	20.0
Benzo[a]anthracene	Ave	1.106	1.111		80.4	80.0	0.5	20.0
Chrysene	Ave	1.093	1.112		81.4	80.0	1.8	20.0
Di-n-octyl phthalate	Lin2	1.033	1.180		84.6	80.0	5.8	20.0
Benzo[b]fluoranthene	Ave	1.223	1.167		76.3	80.0	-4.6	20.0
Benzo[k]fluoranthene	Ave	1.274	1.388		87.2	80.0	9.0	20.0
Benzo[a]pyrene	Ave	1.105	1.071		77.6	80.0	-3.1	20.0
Dibenz(a,h)anthracene	Ave	1.036	1.094		84.4	80.0	5.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.151	1.204		83.6	80.0	4.6	20.0
Benzo[g,h,i]perylene	Ave	1.075	1.118		83.2	80.0	3.9	20.0
2-Fluorophenol (Surr)	Ave	1.411	1.441		123	120	2.2	35.0
Phenol-d5 (Surr)	Ave	1.715	1.747		122	120	1.9	35.0
Nitrobenzene-d5 (Surr)	Ave	0.3741	0.3870		82.7	80.0	3.4	35.0
2-Fluorobiphenyl	Ave	1.267	1.303		82.3	80.0	2.9	35.0
2,4,6-Tribromophenol (Surr)	Ave	0.2042	0.2150		126	120	5.3	35.0
Terphenyl-d14 (Surr)	Ave	0.7718	0.7811		81.0	80.0	1.2	35.0

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\121511.B\B8474.D
Lab Smp Id: ICV-1175747 Client Smp ID: MS-HSLSSV080_00026
Inj Date : 15-DEC-2011 11:55
Operator : KIEKELD Inst ID: B.i
Smp Info : ICV-1175747,,MS-HSLSSV080_00026
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\121511.B\8270C.m
Meth Date : 15-Dec-2011 13:28 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 16:36 Cal File: B8381.D
Als bottle: 10 QC Sample: SSV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSLSSV.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 26 1,4-Dichlorobenzene-d4	152	4.924	4.926	(1.000)	287023	40.0000	
* 58 Naphthalene-d8	136	6.169	6.172	(1.000)	1134995	40.0000	
* 96 Acenaphthene-d10	164	7.897	7.899	(1.000)	666692	40.0000	
* 135 Phenanthrene-d10	188	9.171	9.174	(1.000)	1139479	40.0000	
* 166 Chrysene-d12	240	11.263	11.277	(1.000)	1222474	40.0000	
* 179 Perylene-d12	264	12.568	12.582	(1.000)	1101117	40.0000	
$ 43 Nitrobenzene-d5	82	5.458	5.467	(0.885)	878382	82.7487	82.7486
$ 81 2-Fluorobiphenyl	172	7.227	7.229	(0.915)	1737263	82.2892	82.2892
$ 154 Terphenyl-d14	244	10.388	10.390	(0.922)	1909855	80.9735	80.9735
$ 8 2-Fluorophenol	112	3.696	3.698	(0.751)	1240983	122.585	122.585
$ 15 Phenol-d5	99	4.536	4.544	(0.921)	1504591	122.267	122.267
$ 118 2,4,6-Tribromophenol	330	8.596	8.598	(1.089)	430001	126.345	126.345
6 Pyridine	79	2.567	2.576	(0.522)	938218	82.8799	82.8799
5 N-Nitrosodimethylamine	74	2.526	2.535	(0.513)	534632	82.9067	82.9067
18 Aniline	93	4.612	4.620	(0.937)	1190735	78.3019	78.3019
16 Phenol	94	4.548	4.556	(0.924)	1047716	82.7579	82.7578
20 Bis(2-chloroethyl) ether	93	4.647	4.656	(0.944)	803984	83.2345	83.2344
23 2-Chlorophenol	128	4.724	4.726	(0.959)	862957	83.4831	83.4831
25 1,3-Dichlorobenzene	146	4.871	4.873	(0.989)	989192	82.5175	82.5175
27 1,4-Dichlorobenzene	146	4.941	4.944	(1.004)	1006056	83.0353	83.0353
28 Benzyl alcohol	108	5.035	5.043	(1.023)	576922	84.7701	84.7701
30 1,2-Dichlorobenzene	146	5.088	5.090	(1.033)	954675	84.0201	84.0201

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
32 2-Methylphenol	108	5.123	5.132	(1.041)	802768	82.8826	82.8826
35 1H-Indene	116	5.170	5.173	(1.050)	1318477	83.0175	83.0175
34 2,2'-oxybis(1-chloropropane)	45	5.147	5.155	(1.045)	955671	82.1004	82.1004
138 3-Methylphenol	108	5.270	5.278	(1.070)	838892	83.3826	83.3826
36 4-Methylphenol	108	5.270	5.278	(1.070)	838892	83.3826	83.3826
139 3 & 4-Methylphenol	108	5.270	5.278	(1.070)	838892	83.3826	83.3826
37 N-nitrosodi-n-propylamine	70	5.282	5.290	(1.073)	597434	86.2844	86.2844
38 Acetophenone	105	5.300	5.308	(1.076)	1097626	79.0178	79.0178
41 Hexachloroethane	117	5.411	5.414	(1.099)	375651	82.7482	82.7482
44 Nitrobenzene	77	5.482	5.484	(0.889)	895450	84.8899	84.8899
47 Isophorone	82	5.693	5.702	(0.923)	1541683	86.1265	86.1265
49 2-Nitrophenol	139	5.787	5.790	(0.938)	464020	87.9326	87.9326
50 2,4-Dimethylphenol	107	5.793	5.796	(0.939)	844338	86.4275	86.4275
52 Bis(2-chloroethoxy)methane	93	5.887	5.890	(0.954)	956334	83.1171	83.1171
53 Benzoic acid	122	5.864	5.901	(0.950)	530468	98.9961	98.9960
54 2,4-Dichlorophenol	162	6.010	6.013	(0.974)	705466	83.5981	83.5981
57 1,2,4-Trichlorobenzene	180	6.105	6.107	(0.990)	785241	79.3898	79.3898
59 Naphthalene	128	6.187	6.189	(1.003)	2388393	79.9528	79.9528
60 4-Chloroaniline	127	6.234	6.236	(1.010)	1020931	81.4977	81.4977
62 Hexachlorobutadiene	225	6.287	6.289	(1.019)	463472	82.7089	82.7089
68 4-Chloro-3-methylphenol	107	6.692	6.700	(1.085)	721641	84.7301	84.7301
71 2-Methylnaphthalene	142	6.874	6.877	(1.114)	1637533	79.8662	79.8662
72 1-Methylnaphthalene	142	6.974	6.977	(1.130)	1595710	82.4902	82.4902
74 Hexachlorocyclopentadiene	237	7.015	7.018	(0.888)	560174	97.4114	97.4114
78 2,4,6-Trichlorophenol	196	7.150	7.153	(0.906)	518606	87.9697	87.9697
80 2,4,5-Trichlorophenol	196	7.191	7.194	(0.911)	563263	85.6022	85.6022
86 2-Chloronaphthalene	162	7.368	7.370	(0.933)	1541447	83.0320	83.0320
88 2-Nitroaniline	65	7.473	7.476	(0.946)	445534	88.4466	88.4466
91 Dimethyl phthalate	163	7.609	7.623	(0.964)	1745582	83.6960	83.6960
93 2,6-Dinitrotoluene	165	7.691	7.693	(0.974)	418489	80.6421	80.6421
94 Acenaphthylene	152	7.767	7.776	(0.984)	2476964	85.8328	85.8328
95 3-Nitroaniline	138	7.861	7.870	(0.996)	496085	86.6590	86.6590
97 Acenaphthene	153	7.926	7.928	(1.004)	1507333	79.8969	79.8969
98 2,4-Dinitrophenol	184	7.949	7.958	(1.007)	233006	79.2045	79.2045
99 4-Nitrophenol	109	7.991	7.999	(1.012)	265660	89.4542	89.4542
101 2,4-Dinitrotoluene	165	8.061	8.069	(1.021)	573023	87.6526	87.6526
102 Dibenzofuran	168	8.079	8.087	(1.023)	2223457	83.8650	83.8650
107 Diethyl phthalate	149	8.237	8.246	(1.043)	1701336	82.6597	82.6597
109 4-Chlorophenyl phenyl ether	204	8.361	8.363	(1.059)	885850	83.2626	83.2626
110 Fluorene	166	8.384	8.387	(1.062)	1806790	80.4316	80.4316
112 4-Nitroaniline	138	8.408	8.422	(1.065)	493641	87.6459	87.6459
113 4,6-Dinitro-2-methylphenol	198	8.419	8.428	(0.918)	342885	86.7375	86.7375
115 N-nitrosodiphenylamine	169	8.466	8.475	(0.923)	1268690	68.9395	68.9395
116 Azobenzene	77	8.502	8.504	(1.077)	1778076	86.1107	86.1107
234 1,2-DPH(as Azobenzene)	77	8.502	8.504	(1.077)	1778076	87.0557	87.0557
242 2,4,6 - Tribromophenol	330	8.596	8.598	(1.089)	430001	126.345	126.345
124 4-Bromophenyl phenyl ether	248	8.778	8.780	(0.957)	526954	82.4649	82.4649
125 Hexachlorobenzene	284	8.848	8.851	(0.965)	571995	83.9218	83.9218
129 Pentachlorophenol	266	9.007	9.009	(0.982)	356096	81.7522	81.7522
136 Phenanthrene	178	9.189	9.192	(1.002)	2529023	80.2728	80.2728
137 Anthracene	178	9.230	9.233	(1.006)	2563303	81.7946	81.7946
140 Carbazole	167	9.354	9.356	(1.020)	2462224	82.6136	82.6136
143 Di-n-butyl phthalate	149	9.553	9.556	(1.042)	2856381	86.6467	86.6467
149 Fluoranthene	202	10.129	10.132	(1.104)	2778832	81.8639	81.8639

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
152	Pyrene	202	10.317	10.320	(0.916)	2847291	80.2037	80.2037
159	Butyl benzyl phthalate	149	10.728	10.731	(0.953)	1290966	85.7609	85.7609
165	Benzo(a)anthracene	228	11.251	11.266	(0.999)	2717013	80.3862	80.3862
167	Chrysene	228	11.287	11.295	(1.002)	2718154	81.4024	81.4024
162	Bis(2-ethylhexyl) phthalate	149	11.128	11.136	(0.988)	1762872	90.4768	90.4768
168	Di-n-octyl phthalate	149	11.633	11.647	(1.033)	2885286	84.6431	84.6431
171	Benzo(b)fluoranthene	252	12.168	12.188	(0.968)	2569336	76.3086	76.3086(H)
172	Benzo(k)fluoranthene	252	12.197	12.212	(0.971)	3057702	87.1696	87.1696
178	Benzo(a)pyrene	252	12.509	12.535	(0.995)	2359121	77.5546	77.5546
186	Indeno(1,2,3-cd)pyrene	276	13.889	13.921	(1.233)	2943358	83.6412	83.6412
185	Dibenz(a,h)anthracene	278	13.884	13.915	(1.105)	2408145	84.4272	84.4272
188	Benzo(g,h,i)perylene	276	14.307	14.338	(1.138)	2460996	83.1597	83.1597
19	Methyl Styrene	118	4.642	4.644	(0.943)	874820	83.4102	83.4102
141	Alachlor	188	9.412	9.415	(1.026)	351057	86.5442	86.5442
127	Atrazine	200	8.889	8.892	(0.969)	380084	65.3138	65.3138
67	Caprolactam	55	6.580	6.612	(1.067)	277025	83.7903	83.7903(H)
79	2,3-Dichlorobenzeneamine	161	7.162	7.170	(0.907)	858760	83.9051	83.9051
21	Decane	43	4.706	4.709	(0.956)	679568	87.7969	87.7969
56	n-Dodecane	43	6.081	6.083	(0.770)	665430	83.7921	83.7921
83	Tetradecane	43	7.256	7.259	(0.919)	653137	84.7048	84.7048
128	n-Octadecane	85	8.972	8.974	(0.978)	433646	86.8281	86.8281
144	n-Eicosane	43	9.618	9.615	(1.218)	615425	85.4257	85.4257
150	n-docosane	43	10.194	10.196	(1.291)	616591	87.9593	87.9593
4	1,4-Dioxane	88	2.268	2.270	(0.461)	349051	81.4086	81.4086

QC Flag Legend

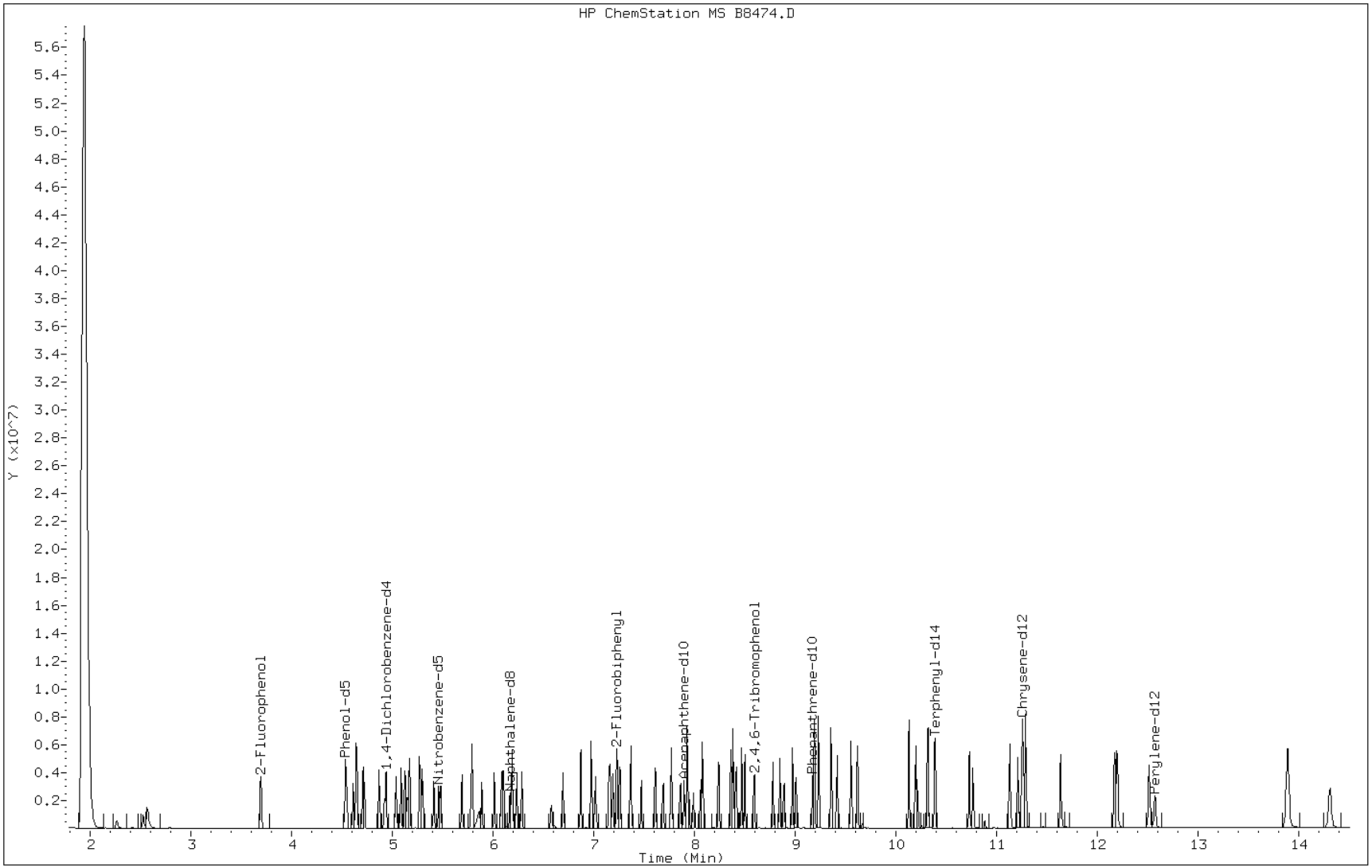
H - Operator selected an alternate compound hit.

Data File: B8474.D

Date: 15-DEC-2011 11:55

Client ID: MS-HSLSSV080_00026 Instrument: B.i

Sample Info: ICV-1175747,,MS-HSLSSV080_00026 Operator: KIEKELD



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICV 280-100158/11 Calibration Date: 12/15/2011 12:15

Instrument ID: MSS_B Calib Start Date: 12/15/2011 09:20

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 12/15/2011 11:36

Lab File ID: B8475.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzidine	Ave	0.5724	0.6408		112	100	11.9	20.0
3,3'-Dichlorobenzidine	Ave	0.3765	0.3600		95.6	100	-4.4	20.0

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\121511.B\B8475.D
Lab Smp Id: ICV-1041094 Client Smp ID: MS-BENZSSV100_00013
Inj Date : 15-DEC-2011 12:15
Operator : KIEKELD Inst ID: B.i
Smp Info : ICV-1041094,,MS-BENZSSV100_00013
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\121511.B\8270C.m
Meth Date : 15-Dec-2011 13:28 B.i Quant Type: ISTD
Cal Date : 06-DEC-2011 16:36 Cal File: B8381.D
Als bottle: 11 QC Sample: SSV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BENSSV.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

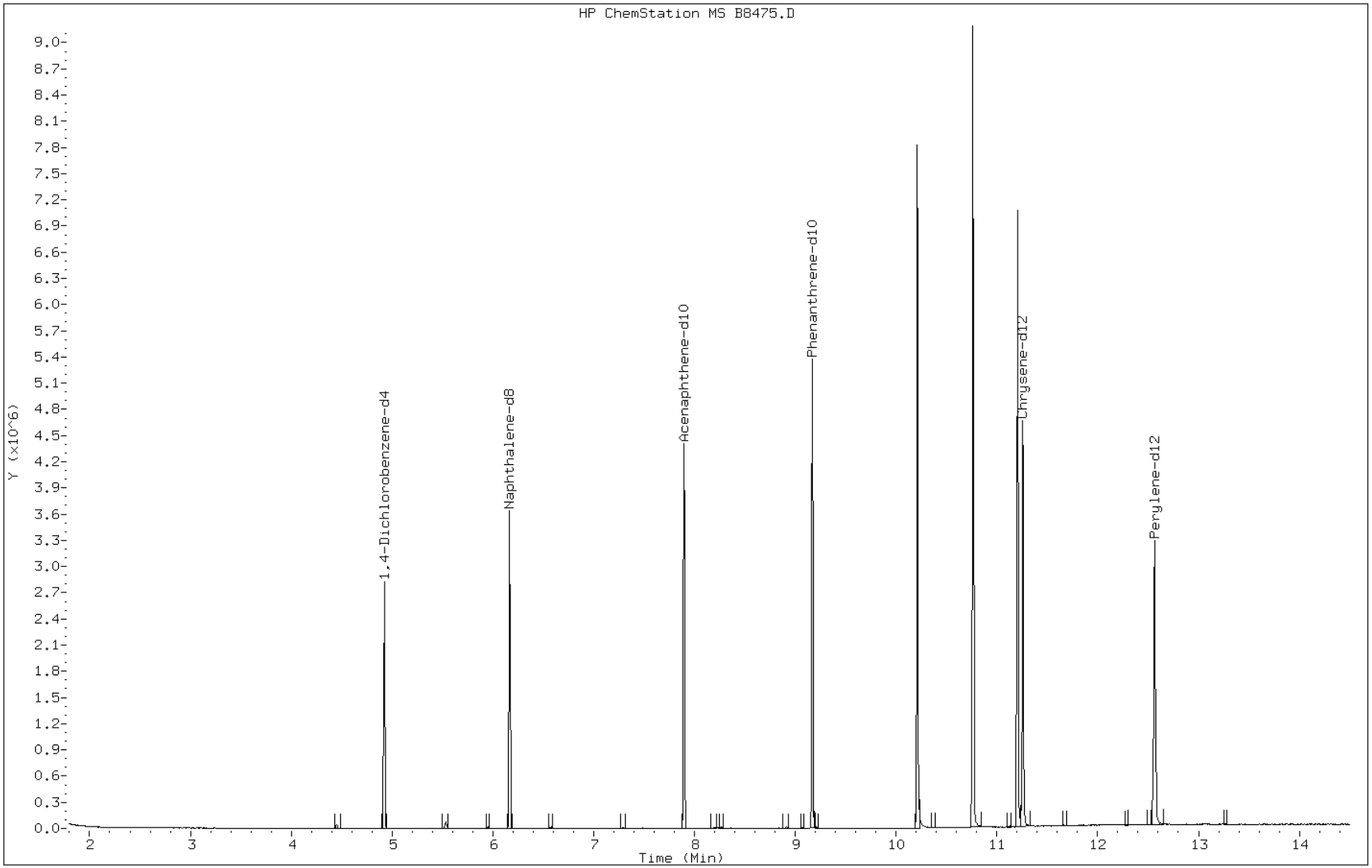
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 26 1,4-Dichlorobenzene-d4	152	4.921	4.926	(1.000)	395334	40.0000	
* 58 Naphthalene-d8	136	6.167	6.172	(1.000)	1535147	40.0000	
* 96 Acenaphthene-d10	164	7.894	7.899	(1.000)	909611	40.0000	
* 135 Phenanthrene-d10	188	9.169	9.174	(1.000)	1553061	40.0000	
* 166 Chrysene-d12	240	11.255	11.277	(1.000)	1688241	40.0000	
* 179 Perylene-d12	264	12.565	12.582	(1.000)	1531955	40.0000	
151 Benzidine	184	10.209	10.214	(0.907)	2704474	111.948	111.948
164 3 3'-Dichlorobenzidine	252	11.208	11.219	(0.996)	1519411	95.6291	95.6291

Data File: B8475.D

Date: 15-DEC-2011 12:15

Client ID: MS-BENZSSV100_00013 Instrument: B.i

Sample Info: ICV-1041094,,MS-BENZSSV100_00013 Operator: KIEKELD



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: CCV 280-101947/2 Calibration Date: 12/29/2011 12:39

Instrument ID: MSS_B Calib Start Date: 12/15/2011 09:20

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 12/15/2011 11:36

Lab File ID: B8717.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5975	0.5765		77.2	80.0	-3.5	35.0
N-Nitrosodimethylamine	Ave	0.8987	0.9157		81.5	80.0	1.9	20.0
Pyridine	Ave	1.578	1.516		76.9	80.0	-3.9	35.0
Phenol	Ave	1.764	1.786		81.0	80.0	1.2	20.0
Aniline	Ave	2.119	2.174		82.1	80.0	2.6	35.0
Bis(2-chloroethyl)ether	Ave	1.346	1.357		80.6	80.0	0.8	20.0
2-Chlorophenol	Ave	1.441	1.482		82.3	80.0	2.8	20.0
1,3-Dichlorobenzene	Ave	1.671	1.685		80.7	80.0	0.9	20.0
1,4-Dichlorobenzene	Ave	1.689	1.707		80.9	80.0	1.1	20.0
Benzyl alcohol	Ave	0.9485	0.9735		82.1	80.0	2.6	20.0
1,2-Dichlorobenzene	Ave	1.583	1.590		80.3	80.0	0.4	20.0
2-Methylphenol	Ave	1.350	1.375		81.5	80.0	1.9	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.622	1.662		81.9	80.0	2.4	20.0
3 & 4 Methylphenol	Ave	1.402	1.442		82.3	80.0	2.9	20.0
4-Methylphenol	Ave	1.402	1.442		82.3	80.0	2.9	35.0
N-Nitrosodi-n-propylamine	Ave	0.9649	0.9904	0.0500	82.1	80.0	2.6	20.0
Acetophenone	Ave	1.936	1.963		81.1	80.0	1.4	35.0
Hexachloroethane	Ave	0.6327	0.6446		81.5	80.0	1.9	20.0
Nitrobenzene	Ave	0.3718	0.3768		81.1	80.0	1.4	20.0
Isophorone	Ave	0.6308	0.6565		83.3	80.0	4.1	20.0
2-Nitrophenol	Ave	0.1860	0.2024		87.1	80.0	8.8	20.0
2,4-Dimethylphenol	Ave	0.3443	0.3533		82.1	80.0	2.6	20.0
Benzoic acid	Ave	0.1888	0.1778		75.3	80.0	-5.9	20.0
Bis(2-chloroethoxy)methane	Ave	0.4055	0.4162		82.1	80.0	2.6	20.0
2,4-Dichlorophenol	Ave	0.2974	0.3052		82.1	80.0	2.6	20.0
1,2,4-Trichlorobenzene	Ave	0.3486	0.3440		79.0	80.0	-1.3	20.0
Naphthalene	Ave	1.053	1.060		80.6	80.0	0.7	20.0
4-Chloroaniline	Ave	0.4415	0.4526		82.0	80.0	2.5	20.0
Hexachlorobutadiene	Ave	0.1975	0.1919		77.7	80.0	-2.8	20.0
Caprolactam	Ave	0.1165	0.1186		81.4	80.0	1.8	35.0
4-Chloro-3-methylphenol	Ave	0.3002	0.3081		82.1	80.0	2.6	20.0
2-Methylnaphthalene	Ave	0.7226	0.7326		81.1	80.0	1.4	20.0
1-Methylnaphthalene	Ave	0.6817	0.6951		81.6	80.0	2.0	35.0
Hexachlorocyclopentadiene	Lin2	0.3343	0.3372		78.5	80.0	-1.9	35.0
2,4,6-Trichlorophenol	Ave	0.3537	0.3672		83.1	80.0	3.8	20.0
2,4,5-Trichlorophenol	Ave	0.3948	0.4049		82.0	80.0	2.5	20.0
2-Chloronaphthalene	Ave	1.114	1.109		79.7	80.0	-0.4	20.0
2-Nitroaniline	Ave	0.3022	0.3154		83.5	80.0	4.4	20.0
Dimethyl phthalate	Ave	1.251	1.269		81.1	80.0	1.4	20.0
2,6-Dinitrotoluene	Ave	0.3114	0.3186		81.9	80.0	2.3	20.0
Acenaphthylene	Ave	1.731	1.763		81.5	80.0	1.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: CCV 280-101947/2 Calibration Date: 12/29/2011 12:39

Instrument ID: MSS_B Calib Start Date: 12/15/2011 09:20

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 12/15/2011 11:36

Lab File ID: B8717.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3-Nitroaniline	Ave	0.3435	0.3658		85.2	80.0	6.5	20.0
Acenaphthene	Ave	1.132	1.134		80.1	80.0	0.2	20.0
2,4-Dinitrophenol	Lin2	0.1693	0.1757	0.0500	79.6	80.0	-0.5	20.0
4-Nitrophenol	Ave	0.1782	0.1774	0.0500	79.6	80.0	-0.5	20.0
2,4-Dinitrotoluene	Ave	0.3922	0.4150		84.6	80.0	5.8	20.0
Dibenzofuran	Ave	1.591	1.600		80.5	80.0	0.6	20.0
Diethyl phthalate	Ave	1.235	1.234		79.9	80.0	-0.0	20.0
4-Chlorophenyl phenyl ether	Ave	0.6383	0.6367		79.8	80.0	-0.3	20.0
Fluorene	Ave	1.348	1.348		80.0	80.0	0.0	20.0
4-Nitroaniline	Ave	0.3379	0.3633		86.0	80.0	7.5	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1388	0.1452		83.7	80.0	4.6	20.0
N-Nitrosodiphenylamine	Ave	0.6460	0.6507		80.6	80.0	0.7	20.0
1,2-Diphenylhydrazine	Ave	1.225	1.236		81.6	80.9	0.9	20.0
4-Bromophenyl phenyl ether	Ave	0.2243	0.2229		79.5	80.0	-0.6	20.0
Hexachlorobenzene	Ave	0.2393	0.2342		78.3	80.0	-2.1	20.0
Atrazine	Ave	0.2043	0.2027		79.4	80.0	-0.8	35.0
Pentachlorophenol	Ave	0.1529	0.1507		78.8	80.0	-1.5	20.0
Phenanthrene	Ave	1.106	1.103		79.8	80.0	-0.3	20.0
Anthracene	Ave	1.100	1.114		81.0	80.0	1.2	20.0
Carbazole	Ave	1.046	1.060		81.0	80.0	1.3	20.0
Di-n-butyl phthalate	Ave	1.157	1.222		84.5	80.0	5.6	20.0
Fluoranthene	Ave	1.192	1.199		80.5	80.0	0.6	20.0
Benzidine	Ave	0.5724	0.6803		95.1	80.0	18.9	20.0
Pyrene	Ave	1.162	1.189		81.9	80.0	2.3	20.0
Famphur	Ave	0.3879	0.4320		89.1	80.0	11.4	35.0
Butyl benzyl phthalate	Ave	0.4925	0.5098		82.8	80.0	3.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6375	0.7127		89.4	80.0	11.8	20.0
3,3'-Dichlorobenzidine	Ave	0.3765	0.4183		88.9	80.0	11.1	20.0
Benzo[a]anthracene	Ave	1.106	1.127		81.5	80.0	1.9	20.0
Chrysene	Ave	1.093	1.110		81.3	80.0	1.6	20.0
Di-n-octyl phthalate	Lin2	1.033	1.200		86.0	80.0	7.5	20.0
Benzo[b]fluoranthene	Ave	1.223	1.318		86.2	80.0	7.8	20.0
Benzo[k]fluoranthene	Ave	1.274	1.188		74.6	80.0	-6.8	20.0
Benzo[a]pyrene	Ave	1.105	1.140		82.6	80.0	3.2	20.0
Dibenz(a,h)anthracene	Ave	1.036	1.066		82.3	80.0	2.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.151	1.215		84.4	80.0	5.5	20.0
Benzo[g,h,i]perylene	Ave	1.075	1.108		82.5	80.0	3.1	20.0
2-Fluorophenol (Surr)	Ave	1.411	1.434		122	120	1.7	20.0
Phenol-d5 (Surr)	Ave	1.715	1.760		123	120	2.7	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3741	0.3807		81.4	80.0	1.8	20.0
2-Fluorobiphenyl	Ave	1.267	1.275		80.5	80.0	0.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: CCV 280-101947/2 Calibration Date: 12/29/2011 12:39

Instrument ID: MSS_B Calib Start Date: 12/15/2011 09:20

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 12/15/2011 11:36

Lab File ID: B8717.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,6-Tribromophenol (Surr)	Ave	0.2042	0.2106		124	120	3.2	20.0
Terphenyl-d14 (Surr)	Ave	0.7718	0.7790		80.7	80.0	0.9	20.0

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\122911.B\B8717.D
Lab Smp Id: CCV-1148418 Client Smp ID: MS-HSL080_00036
Inj Date : 29-DEC-2011 12:39
Operator : KIEKELD Inst ID: B.i
Smp Info : CCV-1148418,,MS-HSL080_00036
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\122911.B\8270C.m
Meth Date : 29-Dec-2011 13:02 B.i Quant Type: ISTD
Cal Date : 22-DEC-2011 13:51 Cal File: B8562.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-HSL.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26	1,4-Dichlorobenzene-d4	152	4.895	4.895	(1.000)	307093	40.0000	
* 58	Naphthalene-d8	136	6.147	6.147	(1.000)	1225467	40.0000	
* 96	Acenaphthene-d10	164	7.880	7.880	(1.000)	734419	40.0000	
* 135	Phenanthrene-d10	188	9.149	9.149	(1.000)	1256279	40.0000	
* 166	Chrysene-d12	240	11.235	11.235	(1.000)	1327686	40.0000	
* 179	Perylene-d12	264	12.528	12.528	(1.000)	1238753	40.0000	
$ 22	2-Chlorophenol-d4	132	4.678	4.678	(0.956)	1371256	120.000	124.270
$ 29	1,2-Dichlorobenzene-d4	152	5.048	5.048	(1.031)	622706	80.0000	80.9993
$ 8	2-Fluorophenol	112	3.650	3.650	(0.746)	1321296	120.000	121.988
$ 15	Phenol-d5	99	4.513	4.513	(0.922)	1621859	120.000	123.183
$ 43	Nitrobenzene-d5	82	5.436	5.436	(0.884)	933087	80.0000	81.4127
$ 81	2-Fluorobiphenyl	172	7.210	7.210	(0.915)	1872079	80.0000	80.4975
$ 118	2,4,6-Tribromophenol	330	8.579	8.579	(1.089)	464076	120.000	123.782
$ 154	Terphenyl-d14	244	10.359	10.359	(0.922)	2068452	80.0000	80.7481
4	1,4-Dioxane	88	2.146	2.146	(0.438)	354084	80.0000	77.1853
5	N-Nitrosodimethylamine	74	2.428	2.428	(0.496)	562383	80.0000	81.5106
6	Pyridine	79	2.469	2.469	(0.504)	931311	80.0000	76.8930
16	Phenol	94	4.525	4.525	(0.924)	1096700	80.0000	80.9656
18	Aniline	93	4.584	4.584	(0.936)	1335193	80.0000	82.0631
19	Methyl Styrene	118	4.613	4.613	(0.942)	915770	80.0000	81.6082
20	Bis(2-chloroethyl) ether	93	4.619	4.619	(0.944)	833324	80.0000	80.6337
21	Decane	43	4.678	4.678	(0.956)	671616	80.0000	81.0987

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
23	2-Chlorophenol	128	4.696	4.696	(0.959)	909991	80.0000	82.2798
25	1,3-Dichlorobenzene	146	4.842	4.842	(0.989)	1034998	80.0000	80.6959
27	1,4-Dichlorobenzene	146	4.913	4.913	(1.004)	1048220	80.0000	80.8611
28	Benzyl alcohol	108	5.013	5.013	(1.024)	597928	80.0000	82.1148
30	1,2-Dichlorobenzene	146	5.060	5.060	(1.034)	976461	80.0000	80.3211
32	2-Methylphenol	108	5.107	5.107	(1.043)	844714	80.0000	81.5135
34	2,2'-oxybis(1-chloropropane)	45	5.124	5.124	(1.047)	1020510	80.0000	81.9409
35	1H-Indene	116	5.148	5.148	(1.052)	1386054	80.0000	81.5688
138	3-Methylphenol	108	5.254	5.254	(1.073)	885841	80.0000	82.2947
36	4-Methylphenol	108	5.254	5.254	(1.073)	885841	80.0000	82.2947
139	3 & 4-Methylphenol	108	5.254	5.254	(1.073)	885841	80.0000	82.2947
37	N-nitrosodi-n-propylamine	70	5.260	5.260	(1.074)	608258	80.0000	82.1064
38	Acetophenone	105	5.277	5.277	(1.078)	1205577	80.0000	81.1171
41	Hexachloroethane	117	5.389	5.389	(1.101)	395920	80.0000	81.5132
44	Nitrobenzene	77	5.459	5.459	(0.888)	923573	80.0000	81.0920
47	Isophorone	82	5.671	5.671	(0.923)	1609113	80.0000	83.2570
50	2,4-Dimethylphenol	107	5.777	5.777	(0.940)	865797	80.0000	82.0813
49	2-Nitrophenol	139	5.771	5.771	(0.939)	495995	80.0000	87.0528
53	Benzoic acid	122	5.853	5.853	(0.952)	435700	80.0000	75.3076
52	Bis(2-chloroethoxy)methane	93	5.871	5.871	(0.955)	1020128	80.0000	82.1160
54	2,4-Dichlorophenol	162	5.994	5.994	(0.975)	747983	80.0000	82.0927
56	n-Dodecane	43	6.065	6.065	(0.770)	699594	80.0000	79.9702
57	1,2,4-Trichlorobenzene	180	6.082	6.082	(0.989)	843178	80.0000	78.9539
59	Naphthalene	128	6.170	6.170	(1.004)	2598807	80.0000	80.5739
60	4-Chloroaniline	127	6.217	6.217	(1.011)	1109388	80.0000	82.0209
62	Hexachlorobutadiene	225	6.270	6.270	(1.020)	470296	80.0000	77.7306
67	Caprolactam	55	6.570	6.570	(1.069)	290579	80.0000	81.4013
68	4-Chloro-3-methylphenol	107	6.681	6.681	(1.087)	755116	80.0000	82.1150
71	2-Methylnaphthalene	142	6.858	6.858	(1.116)	1795628	80.0000	81.1114
72	1-Methylnaphthalene	142	6.958	6.958	(1.132)	1703569	80.0000	81.5644
74	Hexachlorocyclopentadiene	237	6.999	6.999	(0.888)	495322	80.0000	78.5133
78	2,4,6-Trichlorophenol	196	7.134	7.134	(0.905)	539411	80.0000	83.0609
79	2,3-Dichlorobenzeneamine	161	7.146	7.146	(0.907)	917211	80.0000	81.3518
80	2,4,5-Trichlorophenol	196	7.175	7.175	(0.911)	594655	80.0000	82.0390
83	Tetradecane	43	7.240	7.240	(0.919)	681927	80.0000	80.2829
86	2-Chloronaphthalene	162	7.351	7.351	(0.933)	1629103	80.0000	79.6612
88	2-Nitroaniline	65	7.457	7.457	(0.946)	463291	80.0000	83.4902
91	Dimethyl phthalate	163	7.598	7.598	(0.964)	1864053	80.0000	81.1342
93	2,6-Dinitrotoluene	165	7.674	7.674	(0.974)	467939	80.0000	81.8556
94	Acenaphthylene	152	7.751	7.751	(0.984)	2590114	80.0000	81.4768
95	3-Nitroaniline	138	7.845	7.845	(0.996)	537273	80.0000	85.1989
97	Acenaphthene	153	7.909	7.909	(1.004)	1665449	80.0000	80.1371
98	2,4-Dinitrophenol	184	7.933	7.933	(1.007)	258074	80.0000	79.5911
99	4-Nitrophenol	109	7.974	7.974	(1.012)	260537	80.0000	79.6389
101	2,4-Dinitrotoluene	165	8.045	8.045	(1.021)	609519	80.0000	84.6372
102	Dibenzofuran	168	8.062	8.062	(1.023)	2350036	80.0000	80.4652
105	Hexadecane	57	8.191	8.191	(1.040)	940518	80.0000	82.1229
107	Diethyl phthalate	149	8.221	8.221	(1.043)	1812485	80.0000	79.9391
109	4-Chlorophenyl phenyl ether	204	8.344	8.344	(1.059)	935230	80.0000	79.7975
110	Fluorene	166	8.368	8.368	(1.062)	1979777	80.0000	80.0050
112	4-Nitroaniline	138	8.391	8.391	(1.065)	533663	80.0000	86.0140
113	4,6-Dinitro-2-methylphenol	198	8.403	8.403	(0.918)	364835	80.0000	83.7096
115	N-nitrosodiphenylamine	169	8.450	8.450	(0.924)	1634792	80.0000	80.5740
116	Azobenzene	77	8.479	8.479	(1.076)	1835585	80.0000	80.6980

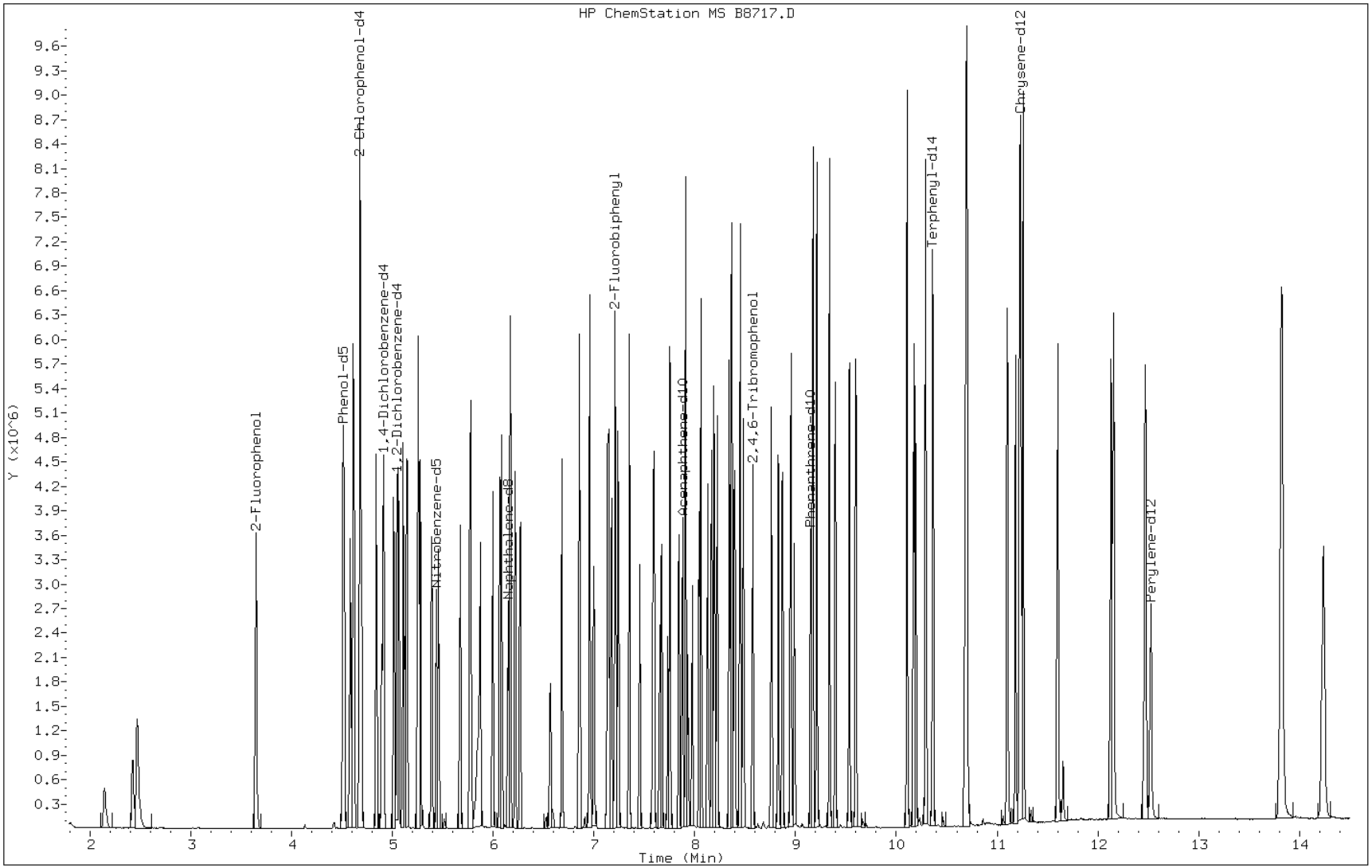
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
234	1,2-DPH(as Azobenzene)	77	8.479	8.479	(1.076)	1835585	80.8780	81.5836
242	2,4,6 - Tribromophenol	330	8.579	8.579	(1.089)	464076	120.000	123.782
124	4-Bromophenyl phenyl ether	248	8.761	8.761	(0.958)	560007	80.0000	79.4896
125	Hexachlorobenzene	284	8.832	8.832	(0.965)	588435	80.0000	78.3071
127	Atrazine	200	8.873	8.873	(0.970)	509256	80.0000	79.3746
128	n-Octadecane	85	8.955	8.955	(0.979)	463212	80.0000	84.1250
129	Pentachlorophenol	266	8.991	8.991	(0.983)	378579	80.0000	78.8332
136	Phenanthrene	178	9.173	9.173	(1.003)	2770976	80.0000	79.7753
137	Anthracene	178	9.214	9.214	(1.007)	2798522	80.0000	80.9979
140	Carbazole	167	9.337	9.337	(1.021)	2663188	80.0000	81.0487
141	Alachlor	188	9.396	9.396	(1.027)	370949	80.0000	82.9458
143	Di-n-butyl phthalate	149	9.537	9.537	(1.042)	3070085	80.0000	84.4708
144	n-Eicosane	43	9.596	9.596	(1.218)	649438	80.0000	81.8338
149	Fluoranthene	202	10.107	10.107	(1.105)	3012443	80.0000	80.4950
150	n-docosane	43	10.171	10.171	(1.291)	645613	80.0000	83.6062
151	Benzidine	184	10.189	10.189	(0.907)	1806417	80.0000	95.0806
152	Pyrene	202	10.289	10.289	(0.916)	3156256	80.0000	81.8614
158	Famphur	218	10.683	10.683	(0.951)	1147026	80.0000	89.0907
159	Butyl benzyl phthalate	149	10.700	10.700	(0.952)	1353592	80.0000	82.7955
162	Bis(2-ethylhexyl) phthalate	149	11.100	11.100	(0.988)	1892597	80.0000	89.4374
164	3 3'-Dichlorobenzidine	252	11.182	11.182	(0.995)	1110705	80.0000	88.8900
165	Benzo(a)anthracene	228	11.223	11.223	(0.999)	2991438	80.0000	81.4919
167	Chrysene	228	11.258	11.258	(1.002)	2948428	80.0000	81.3013
168	Di-n-octyl phthalate	149	11.599	11.599	(1.032)	3185322	80.0000	86.0138
171	Benzo(b)fluoranthene	252	12.128	12.128	(0.968)	3265856	80.0000	86.2180
172	Benzo(k)fluoranthene	252	12.157	12.157	(0.970)	2942436	80.0000	74.5634
178	Benzo(a)pyrene	252	12.469	12.469	(0.995)	2825013	80.0000	82.5518
185	Dibenz(a,h)anthracene	278	13.820	13.820	(1.103)	2641597	80.0000	82.3218
186	Indeno(1,2,3-cd)pyrene	276	13.826	13.826	(1.231)	3227142	80.0000	84.4383
188	Benzo(g,h,i)perylene	276	14.237	14.237	(1.136)	2746297	80.0000	82.4894

Data File: B8717.D

Date: 29-DEC-2011 12:39

Client ID: MS-HSL080_00036 Instrument: B.i

Sample Info: CCV-1148418,,MS-HSL080_00036 Operator: KIEKELD



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: CCV 280-101947/3 Calibration Date: 12/29/2011 12:59

Instrument ID: MSS_B Calib Start Date: 12/06/2011 14:38

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 12/06/2011 16:36

Lab File ID: B8718.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl methanesulfonate	Ave	1.060	1.054		79.6	80.0	-0.5	50.0
N-Nitrosopyrrolidine	Ave	0.7064	0.7394		83.7	80.0	4.7	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1790	0.1767		78.9	80.0	-1.3	35.0
alpha,alpha-Dimethyl phenethylamine	Ave	0.7598	0.7765		81.8	80.0	2.2	50.0
2,6-Dichlorophenol	Ave	0.2896	0.2953		81.6	80.0	2.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.3394	0.3298		77.7	80.0	-2.8	35.0
1,1'-Biphenyl	Ave	1.468	1.451		79.1	80.0	-1.2	35.0
2,3,4,6-Tetrachlorophenol	Ave	0.3132	0.3233		82.6	80.0	3.2	35.0
Thionazin	Ave	0.2750	0.2810		81.7	80.0	2.2	35.0
Diphenylamine	Ave	1.110	1.122		80.9	80.0	1.1	50.0
Sulfotepp	Ave	0.1173	0.1176		80.2	80.0	0.3	35.0
Phorate	Ave	0.1406	0.1445		82.2	80.0	2.8	35.0
Dimethoate	Ave	0.2266	0.2289		80.8	80.0	1.0	35.0
Pentachloronitrobenzene	Ave	0.0941	0.0883		75.1	80.0	-6.1	50.0
Disulfoton	Ave	0.3482	0.3639		83.6	80.0	4.5	35.0
Methyl parathion	Ave	0.2161	0.2220		82.2	80.0	2.7	35.0
Ethyl Parathion	Ave	0.1399	0.1471		84.1	80.0	5.2	35.0
4-Nitroquinoline-1-oxide	Lin2	0.1141	0.1045		71.2	80.0	-11.0	50.0
Isodrin	Ave	0.1262	0.1251		79.3	80.0	-0.9	50.0
p-Dimethylamino azobenzene	Ave	0.3042	0.3104		81.6	80.0	2.1	50.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5825	0.5760		79.1	80.0	-1.1	50.0
3-Methylcholanthrene	Ave	0.5905	0.5995		81.2	80.0	1.5	50.0

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\122911.B\B8718.D
Lab Smp Id: CCV-1149060 Client Smp ID: MS-AP9080_00020
Inj Date : 29-DEC-2011 12:59
Operator : KIEKELD Inst ID: B.i
Smp Info : CCV-1149060,,MS-AP9080_00020
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\122911.B\8270C.m
Meth Date : 29-Dec-2011 14:12 B.i Quant Type: ISTD
Cal Date : 22-DEC-2011 13:51 Cal File: B8562.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-AP9std.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.895	4.895	(1.000)	311662	40.0000	
* 58 Naphthalene-d8	136	6.146	6.146	(1.000)	1229177	40.0000	
* 96 Acenaphthene-d10	164	7.879	7.879	(1.000)	723318	40.0000	
* 135 Phenanthrene-d10	188	9.154	9.154	(1.000)	1238148	40.0000	
* 166 Chrysene-d12	240	11.222	11.222	(1.000)	1320772	40.0000	
* 179 Perylene-d12	264	12.509	12.509	(1.000)	1200465	40.0000	
9 2-Picoline	93	3.132	3.132	(0.640)	913669	80.0000	80.5816
10 N-Nitrosomethylethylamine	88	3.226	3.226	(0.659)	415112	80.0000	82.0323
11 Methyl methanesulfonate	80	3.508	3.508	(0.717)	256389	80.0000	79.3235
12 N-Nitrosodiethylamine	102	3.872	3.872	(0.791)	432277	80.0000	81.7880
13 Ethyl methanesulfonate	79	4.148	4.148	(0.848)	657251	80.0000	79.5860
24 Pentachloroethane	117	4.630	4.630	(0.946)	333090	80.0000	79.4474
39 N-Nitrosopyrrolidine	100	5.271	5.271	(1.077)	460852	80.0000	83.7364
40 N-Nitrosomorpholine	116	5.306	5.306	(1.084)	194036	80.0000	81.0285
42 o-Toluidine	106	5.318	5.318	(1.086)	1394456	80.0000	80.0452
46 N-Nitrosopiperidine	114	5.605	5.605	(0.912)	443765	80.0000	82.4290
51 O,O,O-Triethyl phosphorothio	198	5.823	5.823	(0.947)	434263	80.0000	78.9423
55 a,a-Dimethylphenethylamine	58	5.952	5.952	(0.968)	1909015	80.0000	81.7586(M)
61 2,6-Dichlorophenol	162	6.222	6.222	(1.012)	725826	80.0000	81.5636
63 Hexachloropropene	213	6.246	6.246	(1.016)	562620	80.0000	78.9956
64 N-Nitrosodi-n-butylamine	84	6.516	6.516	(1.060)	558681	80.0000	82.1236
66 p-Phenylenediamine	108	6.575	6.575	(1.070)	1184688	80.0000	81.1039

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
70	Safrole	162	6.751	6.751	(1.098)	685636	80.0000	80.0205
75	1,2,4,5-Tetrachlorobenzene	216	7.021	7.021	(1.142)	810657	80.0000	77.7318
76	Isosafrole (#1)	162	7.045	7.045	(0.894)	127320	14.0000	14.3592
84	Isosafrole (#2)	104	7.274	7.274	(0.923)	310531	66.0000	63.9019
85	Biphenyl	154	7.315	7.315	(0.928)	2098797	80.0000	79.0575
87	1-Chloronaphthalene	162	7.374	7.374	(0.936)	1537215	80.0000	77.4662
89	1,4-Naphthoquinone	158	7.527	7.527	(0.955)	510285	80.0000	83.8538
90	1,4-Dinitrobenzene	168	7.580	7.580	(0.962)	291946	80.0000	84.7183
92	1,3-Dinitrobenzene	168	7.650	7.650	(0.971)	325818	80.0000	86.4267
100	Pentachlorobenzene	250	8.026	8.026	(1.019)	696884	80.0000	77.3074
103	1-Naphthylamine	143	8.144	8.144	(1.034)	1850858	80.0000	81.9464
104	2,3,4,6-Tetrachlorophenol	232	8.167	8.167	(1.037)	467723	80.0000	82.5727
106	2-Naphthylamine	143	8.208	8.208	(1.042)	1874365	80.0000	80.4950
108	Thionazin	97	8.296	8.296	(1.053)	406474	80.0000	81.7465
111	5-Nitro-o-toluidine	152	8.379	8.379	(1.063)	587962	80.0000	86.0245
114	Diphenylamine	169	8.449	8.449	(1.072)	1622768	80.0000	80.8502
117	Sulfotepp	97	8.537	8.537	(0.933)	291261	80.0000	80.2494
119	Diallate (#1)	86	8.667	8.667	(0.947)	607606	57.8000	58.7550
120	1,3,5-Trinitrobenzene	213	8.672	8.672	(0.947)	194697	80.0000	83.4817
121	Phorate	121	8.678	8.678	(0.948)	357814	80.0000	82.2037
122	Phenacetin	108	8.696	8.696	(0.950)	878058	80.0000	81.8289
123	Diallate (#2)	86	8.743	8.743	(0.955)	127959	22.6000	23.1048
126	Dimethoate	87	8.843	8.843	(0.966)	566828	80.0000	80.8184
130	4-Aminobiphenyl	169	8.984	8.984	(0.981)	2048206	80.0000	81.8325
131	Pentachloronitrobenzene	237	8.996	8.996	(0.983)	218766	80.0000	75.1140
132	Pronamide	173	8.996	8.996	(0.983)	767647	80.0000	82.0122
133	Disulfoton	88	9.101	9.101	(0.994)	901026	80.0000	83.5990
134	2-secbutyl-4,6-dinitropheno	211	9.107	9.107	(0.995)	463524	80.0000	84.9231
142	Methyl parathion	109	9.413	9.413	(1.028)	549672	80.0000	82.1927
145	Parathion	109	9.695	9.695	(1.059)	364267	80.0000	84.1360
146	4-Nitroquinoline-1-oxide	190	9.789	9.789	(1.069)	258869	80.0000	71.2368(Q)
147	Methapyrilene	97	9.789	9.789	(1.069)	618160	80.0000	74.3057
148	Isodrin	193	9.977	9.977	(1.090)	309655	80.0000	79.2989
153	Aramite (#1)	185	10.294	10.294	(0.917)	118397	36.0000	38.8600
155	Aramite (#2)	185	10.353	10.353	(0.923)	238610	43.2000	45.0700
156	p-Dimethylaminoazobenzene	120	10.465	10.465	(0.932)	819972	80.0000	81.6446
157	Chlorobenzilate	251	10.476	10.476	(0.934)	834278	80.0000	83.0185
160	3,3'-Dimethylbenzidine	212	10.735	10.735	(0.957)	1777496	80.0000	82.3742
161	2-Acetylaminofluorene	181	10.940	10.940	(0.975)	1189059	80.0000	87.1546
M 173	Total Isosafrole	162				437851	80.0000	78.2612
M 174	Total Diallate	86				735565	80.0000	81.8599
M 175	Total Aramite	185				357007	80.0000	83.9301
176	7,12-Dimethylbenz(a)anthrac	256	12.092	12.092	(0.967)	1383017	80.0000	79.1103
181	3-Methylcholanthrene	268	12.791	12.791	(1.023)	1439242	80.0000	81.2151(H)
184	Dibenz(a,j)acridine	279	13.526	13.526	(1.081)	2197652	80.0000	84.8565

QC Flag Legend

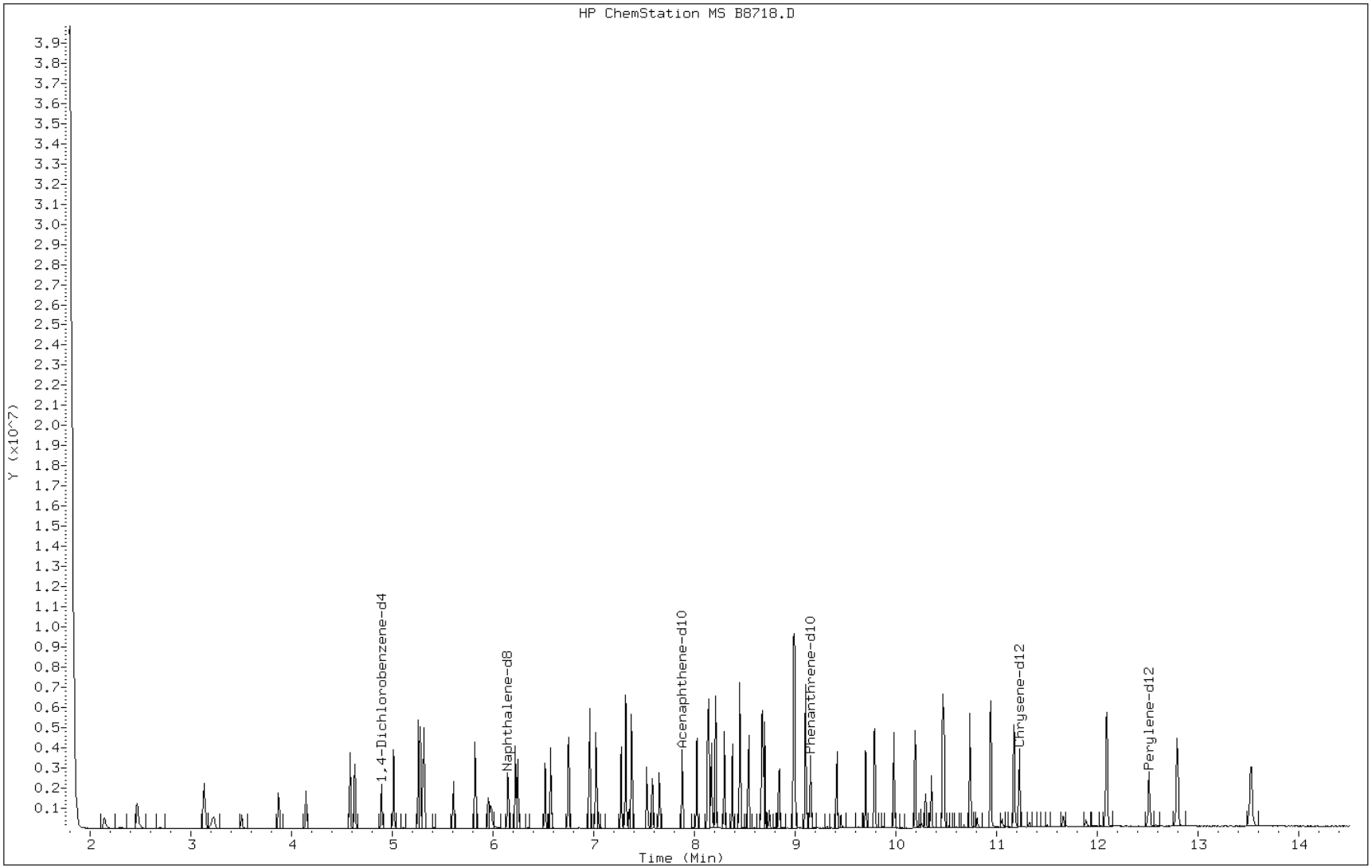
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: B8718.D

Date: 29-DEC-2011 12:59

Client ID: MS-AP9080_00020 Instrument: B.i

Sample Info: CCV-1149060,,MS-AP9080_00020 Operator: KIEKELD



Manual Integration Report

Data File: B8718.D
Inj. Date and Time: 29-DEC-2011 12:59
Instrument ID: B.i
Client ID: MS-AP9080_00020
Compound: 55 a,a-Dimethylphenethylamine
CAS #: 122-09-8
Report Date: 12/30/2011

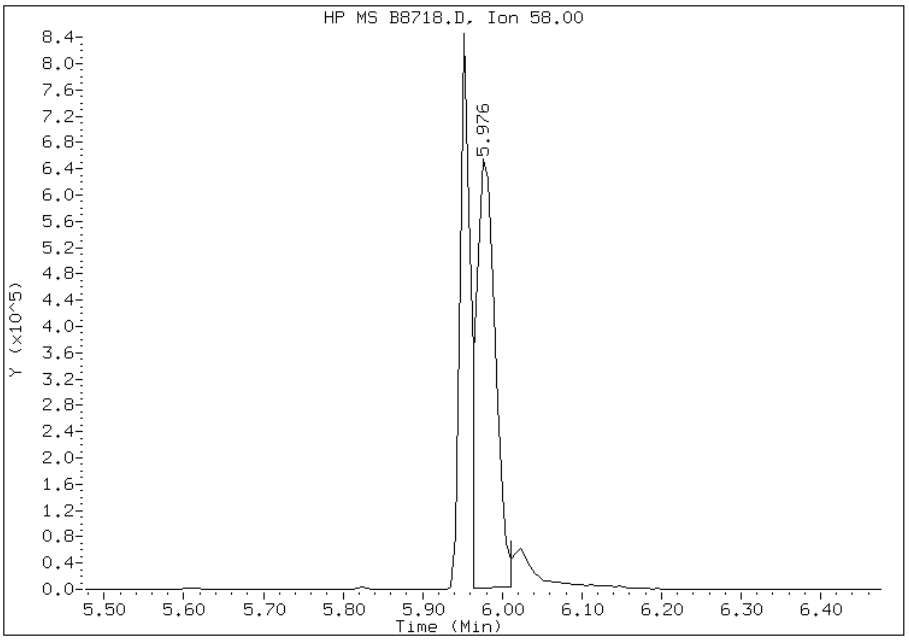
Processing Integration Results

RT: 5.98

Response: 1103045

Amount: 47

Conc: 47



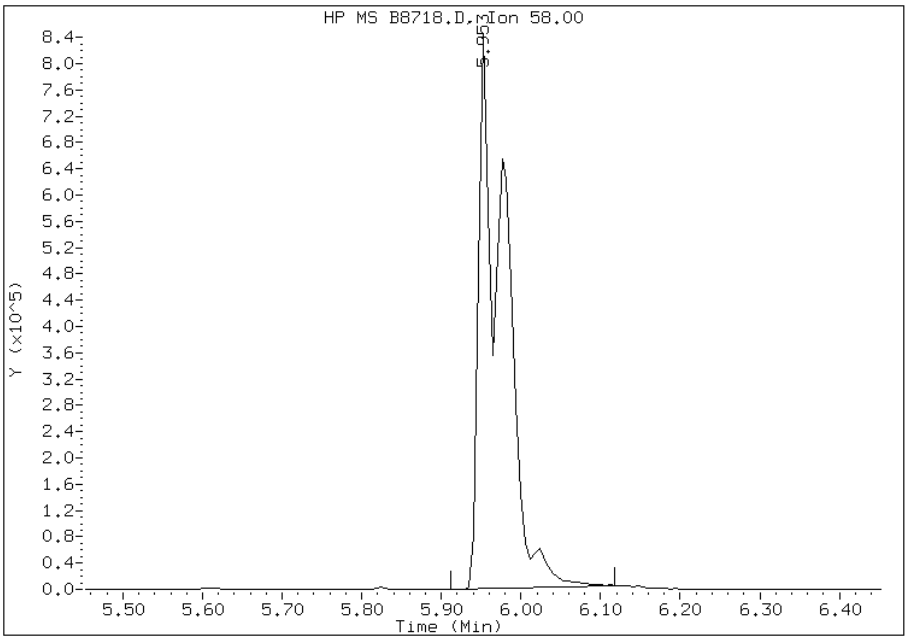
Manual Integration Results

RT: 5.95

Response: 1909015

Amount: 82

Conc: 82



Manually Integrated By: kiekeld
Modification Date: 29-Dec-2011 14:11
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: CCV 280-101947/4 Calibration Date: 12/29/2011 13:19

Instrument ID: MSS_B Calib Start Date: 12/05/2011 14:21

GC Column: Vf-5MS (30.25) ID: 0.25(mm) Calib End Date: 12/05/2011 16:18

Lab File ID: B8719.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.148	1.191		83.0	80.0	3.7	35.0

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\122911.B\B8719.D
Lab Smp Id: CCV-1002543 Client Smp ID: MS-BZHD080_00009
Inj Date : 29-DEC-2011 13:19
Operator : KIEKELD Inst ID: B.i
Smp Info : CCV-1002543,,MS-BZHD080_00009
Misc Info :
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\122911.B\8270C.m
Meth Date : 29-Dec-2011 14:12 B.i Quant Type: ISTD
Cal Date : 22-DEC-2011 13:51 Cal File: B8562.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzaldehyde.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

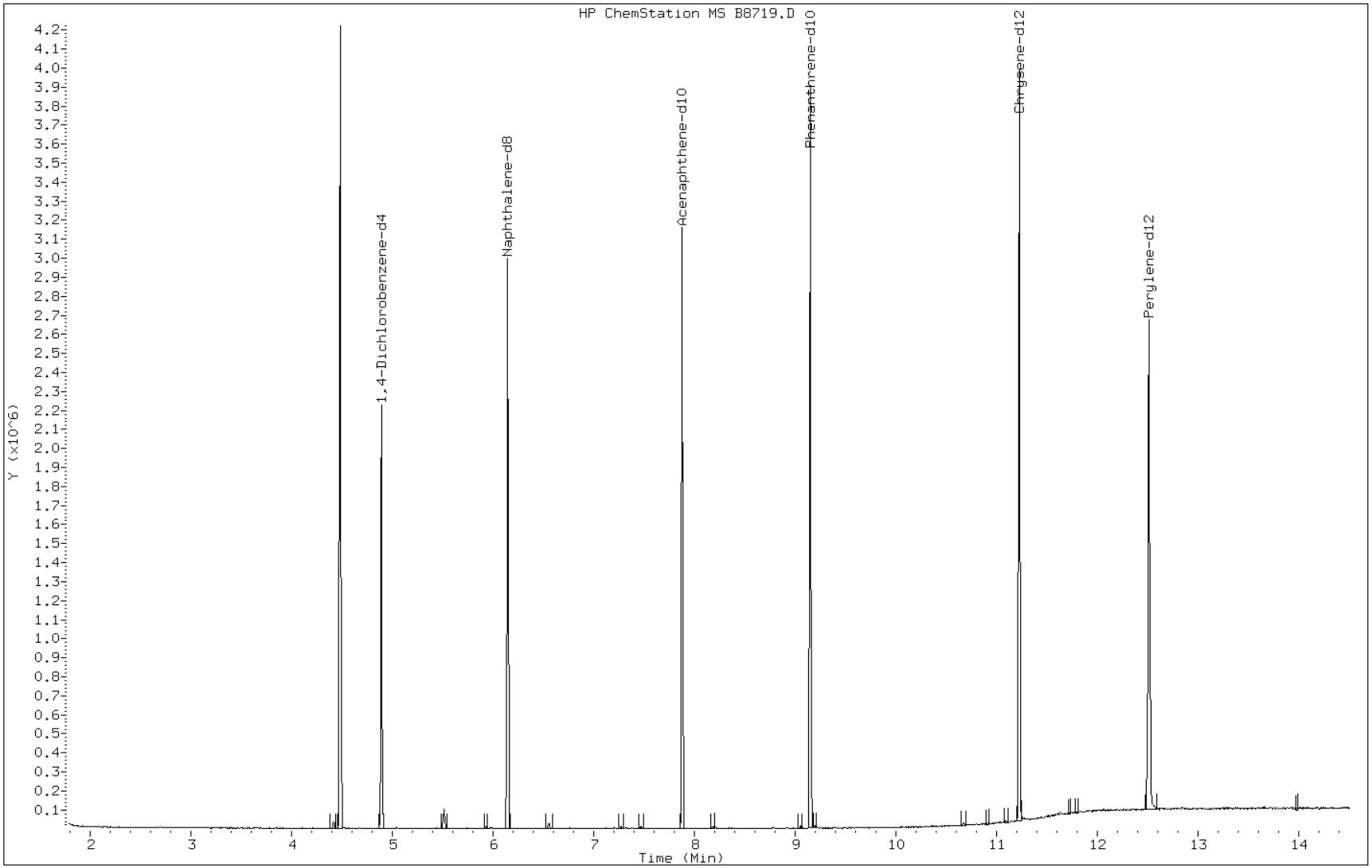
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 26 1,4-Dichlorobenzene-d4	152	4.896	4.896	(1.000)	319140	40.0000	
* 58 Naphthalene-d8	136	6.148	6.148	(1.000)	1219769	40.0000	
* 96 Acenaphthene-d10	164	7.881	7.881	(1.000)	687656	40.0000	
* 135 Phenanthrene-d10	188	9.150	9.150	(1.000)	1176927	40.0000	
* 166 Chrysene-d12	240	11.224	11.224	(1.000)	1308285	40.0000	
* 179 Perylene-d12	264	12.511	12.511	(1.000)	1190309	40.0000	
14 Benzaldehyde	106	4.485	4.485	(0.916)	760024	80.0000	82.9786

Data File: B8719.D

Date: 29-DEC-2011 13:19

Client ID: MS-BZHD080_00009 Instrument: B.i

Sample Info: CCV-1002543,,MS-BZHD080_00009 Operator: KIEKELD



TestAmerica

Data file : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\B8326.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 05-DEC-2011 11:35
Operator : kiekeld Inst ID: B.i
Smp Info : DFTPP-376439,,MS-DFTPP
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSS\B.i\120511a.b\aDFTPPC.m
Meth Date : 21-Mar-2011 10:45 kiekeld Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: DENPC307

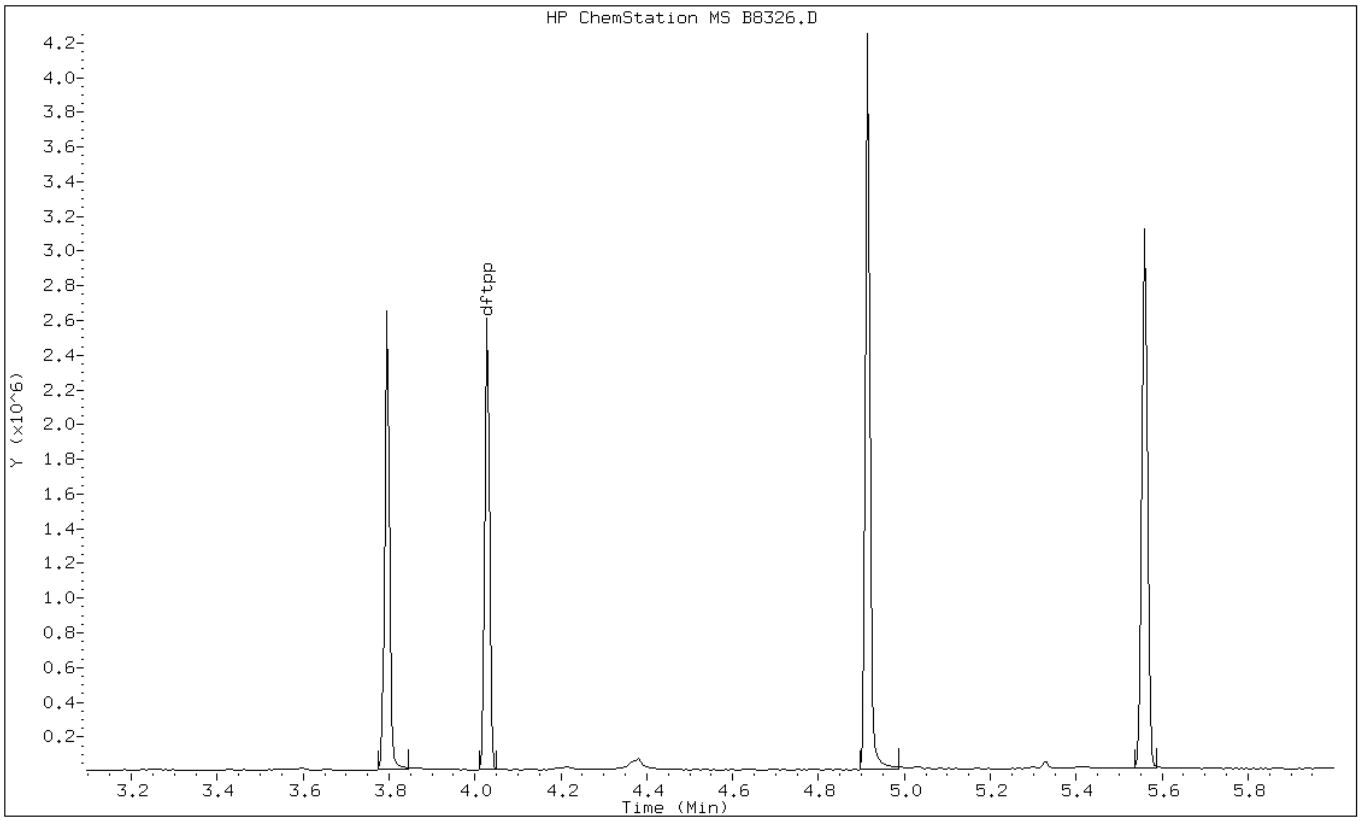
					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp							CAS #: 5074-71-5	
4.027	4.190	-0.163	198	225856			0.00- 100.00	100.00
4.027	4.190	-0.163	51	80616			30.00- 60.00	35.69
4.027	4.190	-0.163	68	0	0.0	0.0	0.00- 2.00	0.00
4.027	4.190	-0.163	69	90752			0.00- 0.00	40.18
4.027	4.190	-0.163	70	505			0.00- 2.00	0.56
4.027	4.190	-0.163	127	112272			40.00- 60.00	49.71
4.027	4.190	-0.163	197	0	0.0	0.0	0.00- 1.00	0.00
4.027	4.190	-0.163	199	16069			5.00- 9.00	7.11
4.027	4.190	-0.163	275	50576			10.00- 30.00	22.39
4.027	4.190	-0.163	365	6085			1.00- 0.00	2.69
4.027	4.190	-0.163	441	23176			0.01- 99.99	78.94
4.027	4.190	-0.163	442	155264			40.00- 100.00	68.74
4.027	4.190	-0.163	443	29360			17.00- 23.00	18.91

Data File: B8326.D

Date: 05-DEC-2011 11:35

Client ID: DFTPP Instrument: B.i

Sample Info: DFTPP-376439,,MS-DFTPP Operator: kiekeld



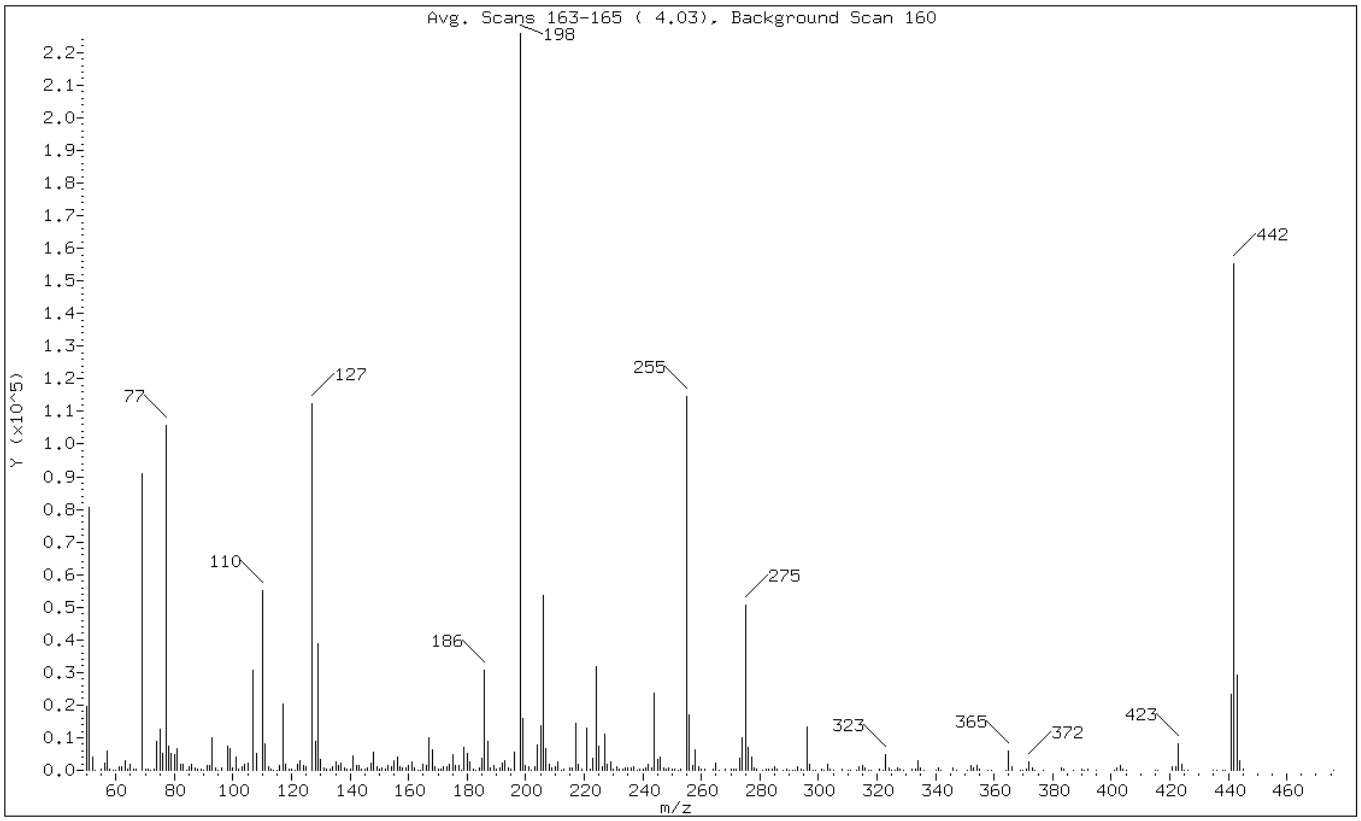
Data File: B8326.D

Date: 05-DEC-2011 11:35

Client ID: DFTPP Instrument: B.i

Sample Info: DFTPP-376439,,MS-DFTPP Operator: kiekeld

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	35.69
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.18
70	Less than 2.00% of mass 69	0.22 (0.56)
127	40.00 - 60.00% of mass 198	49.71
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.11
275	10.00 - 30.00% of mass 198	22.39
365	Greater than 1.00% of mass 198	2.69
441	Present, but less than mass 443	10.26
442	40.00 - 100.00% of mass 198	68.74
443	17.00 - 23.00% of mass 442	13.00 (18.91)

Data File: B8326.D

Date: 05-DEC-2011 11:35

Client ID: DFTPP Instrument: B.i

Sample Info: DFTPP-376439,,MS-DFTPP Operator: kiekeld

Data File: \\DenSvr03\Public\chem\MSS\B.i\120511a.b\B8326.D
Spectrum: Avg. Scans 163-165 (4.03), Background Scan 160
Location of Maximum: 198.00
Number of points: 314

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	19744	135.00	2514	216.00	838	304.00	448
51.00	80616	136.00	1403	217.00	14534	305.00	119
52.00	4108	137.00	2090	218.00	2033	308.00	307
53.00	72	138.00	655	219.00	197	310.00	179
55.00	212	139.00	278	221.00	13093	311.00	177
56.00	2317	140.00	548	222.00	487	313.00	121
57.00	5793	141.00	4404	223.00	3616	314.00	993
58.00	290	142.00	1660	224.00	31680	315.00	1317
59.00	158	143.00	1324	225.00	7437	316.00	789
60.00	115	144.00	346	226.00	976	317.00	146
61.00	1231	145.00	403	227.00	11049	318.00	56
62.00	1084	146.00	920	228.00	1690	321.00	315
63.00	3103	147.00	2059	229.00	2525	322.00	90
64.00	409	148.00	5632	230.00	473	323.00	4686
65.00	1775	149.00	1245	231.00	1049	324.00	855
66.00	244	150.00	510	232.00	368	325.00	58
67.00	330	151.00	647	233.00	281	326.00	137
69.00	90752	152.00	213	234.00	700	327.00	895
70.00	505	153.00	1316	235.00	727	328.00	482
71.00	335	154.00	1169	236.00	617	329.00	135
72.00	65	155.00	2932	237.00	1075	332.00	364
73.00	455	156.00	4163	238.00	92	333.00	381
74.00	8726	157.00	950	239.00	440	334.00	2868
75.00	12456	158.00	823	240.00	500	335.00	907
76.00	5001	159.00	805	241.00	632	336.00	58
77.00	105856	160.00	1295	242.00	1666	340.00	120
78.00	7371	161.00	2541	243.00	689	341.00	698
79.00	5022	162.00	691	244.00	23712	342.00	134
80.00	4842	163.00	142	245.00	3252	346.00	791
81.00	6830	164.00	118	246.00	3976	347.00	149
82.00	1763	165.00	2029	247.00	890	351.00	141
83.00	1934	166.00	1469	248.00	328	352.00	1337
84.00	141	167.00	10041	249.00	824	353.00	905
85.00	1044	168.00	6111	250.00	263	354.00	1631
86.00	1810	169.00	950	251.00	318	355.00	386
87.00	725	170.00	288	252.00	154	358.00	58
88.00	516	171.00	281	253.00	459	359.00	101
89.00	266	172.00	950	255.00	114648	364.00	63
90.00	80	173.00	1049	256.00	17008	365.00	6085
91.00	1464	174.00	1985	257.00	1419	366.00	925

92.00	1566	175.00	4649	258.00	6263	369.00	55
93.00	9876	176.00	1351	259.00	964	370.00	77
94.00	858	177.00	1372	260.00	234	371.00	449
95.00	183	178.00	55	261.00	226	372.00	2464
96.00	568	179.00	7078	264.00	303	373.00	648
98.00	7266	180.00	5193	265.00	2390	374.00	121
99.00	6658	181.00	2544	266.00	146	377.00	86
100.00	598	182.00	510	268.00	193	383.00	685
101.00	3963	183.00	177	270.00	242	384.00	267
102.00	282	184.00	685	271.00	282	387.00	59
103.00	1092	185.00	3808	272.00	260	390.00	243
104.00	2002	186.00	30696	273.00	3857	391.00	126
105.00	2181	187.00	8836	274.00	10039	392.00	217
107.00	30520	188.00	712	275.00	50576	395.00	56
108.00	5296	189.00	1433	276.00	7125	401.00	80
110.00	54952	190.00	337	277.00	4034	402.00	921
111.00	8278	191.00	915	278.00	739	403.00	1320
112.00	1044	192.00	2137	279.00	187	404.00	399
113.00	350	193.00	3026	281.00	29	405.00	86
114.00	143	194.00	678	282.00	208	415.00	59
115.00	73	195.00	502	283.00	408	416.00	51
116.00	1341	196.00	5488	284.00	440	421.00	1153
117.00	20480	198.00	225856	285.00	994	422.00	1204
118.00	1693	199.00	16069	286.00	265	423.00	8266
119.00	312	200.00	1360	288.00	65	424.00	2005
120.00	552	201.00	1106	289.00	290	425.00	128
121.00	139	202.00	64	290.00	115	426.00	60
122.00	1767	203.00	1180	291.00	118	435.00	55
123.00	3057	204.00	7591	292.00	106	436.00	66
124.00	1543	205.00	13557	293.00	1181	438.00	125
125.00	1253	206.00	53416	294.00	249	439.00	59
127.00	112272	207.00	6822	295.00	112	441.00	23176
128.00	8880	208.00	1782	296.00	13317	442.00	155264
129.00	38680	209.00	763	297.00	1820	443.00	29360
130.00	3396	210.00	1050	298.00	67	444.00	2862
131.00	855	211.00	2561	299.00	143	445.00	228
132.00	448	212.00	80	301.00	256	476.00	61
133.00	211	213.00	265	302.00	160		
134.00	1042	215.00	562	303.00	1744		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\B8355.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 06-DEC-2011 08:15
Operator : kiekeld Inst ID: B.i
Smp Info : DFTPP-376439,,MS-DFTPP
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSS\B.i\120611b.b\aDFTPPC.m
Meth Date : 21-Mar-2011 10:45 kiekeld Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: DENPC307

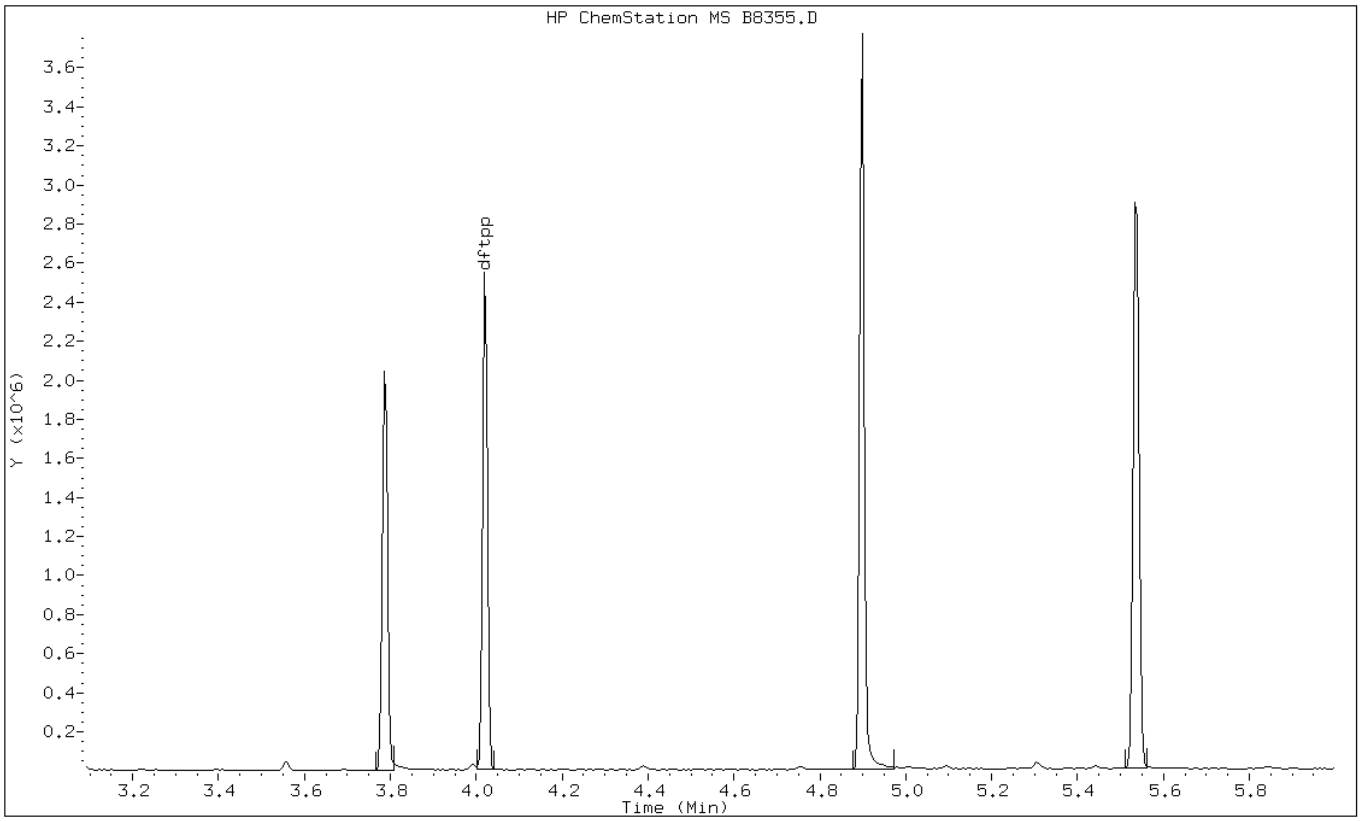
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.018	4.190	-0.172	198	216320			0.00- 100.00	100.00
4.018	4.190	-0.172	51	80000			30.00- 60.00	36.98
4.018	4.190	-0.172	68	0	0.0	0.0	0.00- 2.00	0.00
4.018	4.190	-0.172	69	87496			0.00- 0.00	40.45
4.018	4.190	-0.172	70	420			0.00- 2.00	0.48
4.018	4.190	-0.172	127	108176			40.00- 60.00	50.01
4.018	4.190	-0.172	197	287			0.00- 1.00	0.13
4.018	4.190	-0.172	199	14843			5.00- 9.00	6.86
4.018	4.190	-0.172	275	48168			10.00- 30.00	22.27
4.018	4.190	-0.172	365	6074			1.00- 0.00	2.81
4.018	4.190	-0.172	441	22392			0.01- 99.99	79.74
4.018	4.190	-0.172	442	147008			40.00- 100.00	67.96
4.018	4.190	-0.172	443	28080			17.00- 23.00	19.10

Data File: B8355.D

Date: 06-DEC-2011 08:15

Client ID: DFTPP Instrument: B.i

Sample Info: DFTPP-376439,,MS-DFTPP Operator: kiekeld



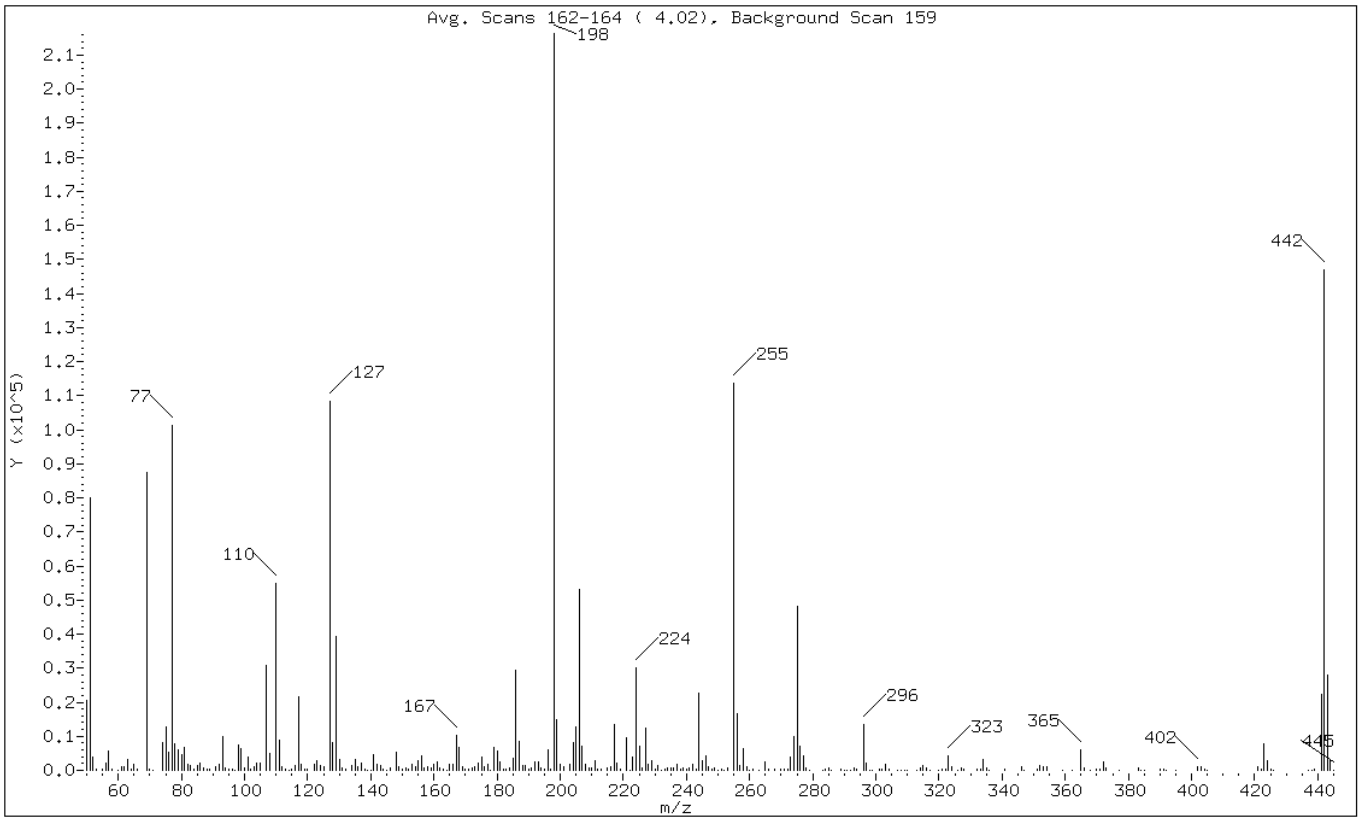
Data File: B8355.D

Date: 06-DEC-2011 08:15

Client ID: DFTPP Instrument: B.i

Sample Info: DFTPP-376439,,MS-DFTPP Operator: kiekeld

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	36.98
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.45
70	Less than 2.00% of mass 69	0.19 (0.48)
127	40.00 - 60.00% of mass 198	50.01
197	Less than 1.00% of mass 198	0.13
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 30.00% of mass 198	22.27
365	Greater than 1.00% of mass 198	2.81
441	Present, but less than mass 443	10.35
442	40.00 - 100.00% of mass 198	67.96
443	17.00 - 23.00% of mass 442	12.98 (19.10)

Data File: B8355.D

Date: 06-DEC-2011 08:15

Client ID: DFTPP Instrument: B.i

Sample Info: DFTPP-376439,,MS-DFTPP Operator: kiekeld

Data File: \\DenSvr03\Public\chem\MSS\B.i\120611b.b\B8355.D
Spectrum: Avg. Scans 162-164 (4.02), Background Scan 159
Location of Maximum: 198.00
Number of points: 291

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	20520	135.00	3038	210.00	755	296.00	13614
51.00	80000	136.00	1193	211.00	2736	297.00	2127
52.00	3908	137.00	1985	212.00	210	298.00	177
53.00	329	138.00	340	213.00	246	299.00	51
55.00	468	139.00	148	215.00	561	301.00	229
56.00	2093	140.00	143	216.00	1128	302.00	268
57.00	5586	141.00	4559	217.00	13540	303.00	1667
58.00	357	142.00	1660	218.00	1977	304.00	425
60.00	61	143.00	1267	219.00	269	307.00	52
61.00	943	144.00	328	221.00	9708	308.00	129
62.00	1231	145.00	163	222.00	10	309.00	57
63.00	3082	146.00	885	223.00	3986	310.00	128
64.00	439	148.00	5422	224.00	30112	313.00	61
65.00	1620	149.00	1136	225.00	7054	314.00	855
66.00	219	150.00	377	226.00	557	315.00	1558
69.00	87496	151.00	759	227.00	12467	316.00	842
70.00	420	152.00	252	228.00	1789	317.00	70
71.00	132	153.00	1675	229.00	2692	320.00	61
74.00	7976	154.00	1096	230.00	409	321.00	348
75.00	12755	155.00	2866	231.00	1285	322.00	191
76.00	5342	156.00	4271	232.00	135	323.00	4280
77.00	101312	157.00	688	233.00	235	324.00	951
78.00	7682	158.00	969	234.00	788	326.00	118
79.00	5849	159.00	646	235.00	821	327.00	840
80.00	4470	160.00	1795	236.00	753	328.00	381
81.00	6665	161.00	2459	237.00	1621	332.00	297
82.00	1645	162.00	565	238.00	275	333.00	457
83.00	1473	163.00	327	239.00	627	334.00	3279
84.00	374	164.00	152	240.00	463	335.00	645
85.00	1254	165.00	1655	241.00	697	336.00	117
86.00	2110	166.00	1683	242.00	1891	341.00	341
87.00	775	167.00	10097	243.00	231	346.00	925
88.00	440	168.00	6853	244.00	22488	347.00	145
89.00	180	169.00	1091	245.00	2921	351.00	283
91.00	1235	170.00	396	246.00	4152	352.00	1469
92.00	1674	171.00	522	247.00	976	353.00	910
93.00	9832	172.00	736	248.00	267	354.00	1018
94.00	751	173.00	1032	249.00	623	359.00	148
95.00	217	174.00	1987	250.00	142	362.00	51
96.00	476	175.00	3997	251.00	195	365.00	6074

97.00	57	176.00	1230	252.00	145	366.00	878
98.00	7274	177.00	1758	253.00	612	368.00	63
99.00	6538	178.00	57	255.00	113560	370.00	183
100.00	592	179.00	6875	256.00	16488	371.00	477
101.00	3931	180.00	5726	257.00	1448	372.00	2318
102.00	195	181.00	2634	258.00	6266	373.00	540
103.00	1239	182.00	383	259.00	1082	377.00	55
104.00	2099	183.00	304	260.00	157	383.00	746
105.00	2243	184.00	739	261.00	195	384.00	122
107.00	30928	185.00	3704	263.00	66	385.00	61
108.00	5024	186.00	29416	265.00	2468	390.00	365
110.00	54848	187.00	8567	266.00	290	391.00	237
111.00	8795	188.00	1292	268.00	214	392.00	114
112.00	1013	189.00	1515	270.00	237	395.00	92
113.00	300	190.00	370	271.00	255	402.00	1031
114.00	80	191.00	844	272.00	241	403.00	993
115.00	178	192.00	2578	273.00	3849	404.00	449
116.00	1370	193.00	2593	274.00	9803	405.00	151
117.00	21584	194.00	737	275.00	48168	421.00	1099
118.00	1664	195.00	298	276.00	6907	422.00	514
119.00	354	196.00	6082	277.00	4100	423.00	7878
120.00	293	197.00	287	278.00	878	424.00	2900
122.00	1882	198.00	216320	279.00	172	425.00	315
123.00	2843	199.00	14843	283.00	85	426.00	56
124.00	1344	200.00	1600	284.00	370	437.00	91
125.00	1231	201.00	1202	285.00	776	438.00	68
127.00	108176	203.00	1652	286.00	56	439.00	481
128.00	8121	204.00	8151	289.00	191	441.00	22392
129.00	39296	205.00	12570	290.00	137	442.00	147008
130.00	3264	206.00	53240	291.00	53	443.00	28080
131.00	533	207.00	6966	292.00	168	444.00	2873
132.00	311	208.00	1676	293.00	855	445.00	81
134.00	1302	209.00	790	294.00	279		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSS\B.i\121511.B\B8465.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 15-DEC-2011 09:10
Operator : kiekeld Inst ID: B.i
Smp Info : DFTPP-376439,,MS-DFTPP
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSS\B.i\121511.B\aDFTPPC.m
Meth Date : 21-Mar-2011 10:45 kiekeld Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: DENPC307

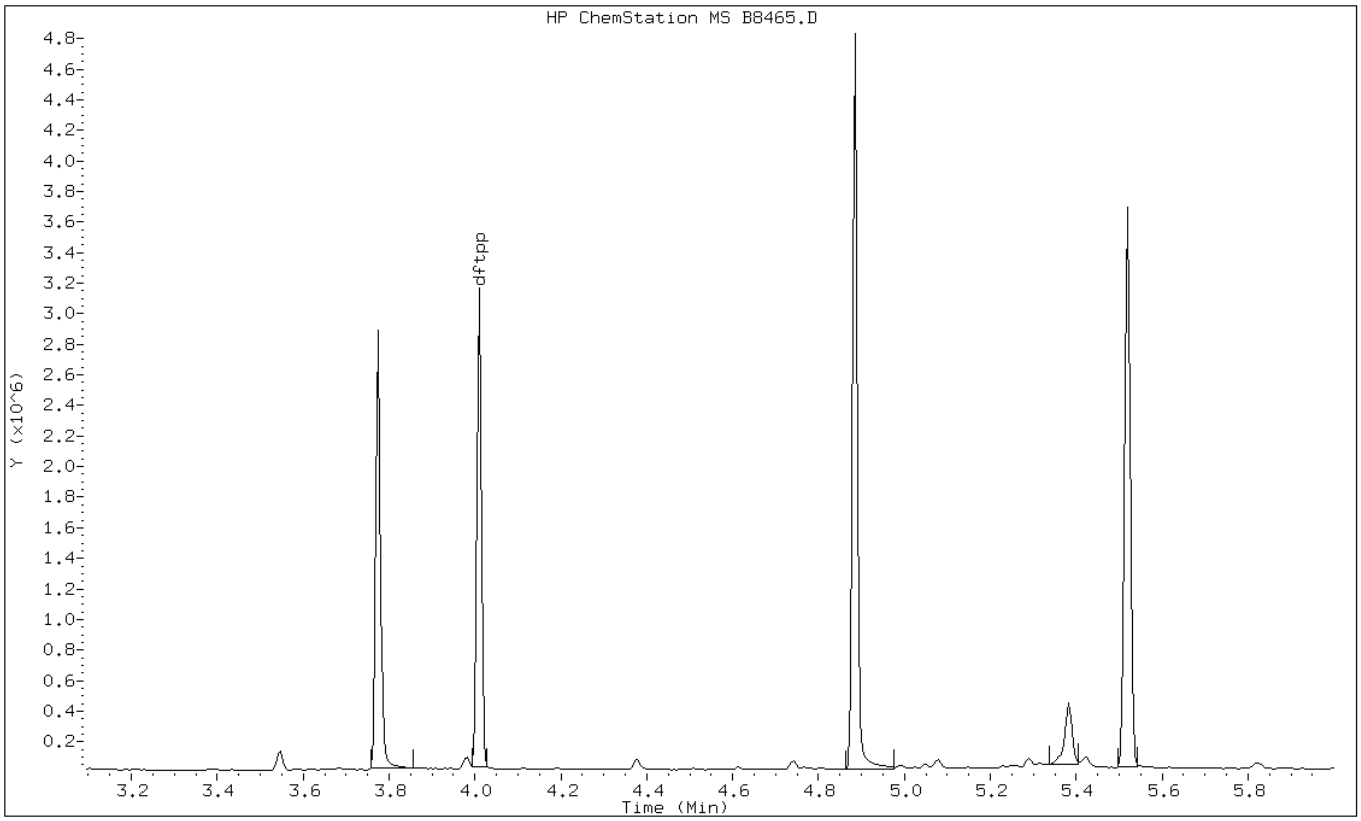
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.010	4.190	-0.180	198	259904			0.00- 100.00	100.00
4.010	4.190	-0.180	51	85920			30.00- 60.00	33.06
4.010	4.190	-0.180	68	0	0.0	0.0	0.00- 2.00	0.00
4.010	4.190	-0.180	69	98432			0.00- 0.00	37.87
4.010	4.190	-0.180	70	329			0.00- 2.00	0.33
4.010	4.190	-0.180	127	125352			40.00- 60.00	48.23
4.010	4.190	-0.180	197	0	0.0	0.0	0.00- 1.00	0.00
4.010	4.190	-0.180	199	17480			5.00- 9.00	6.73
4.010	4.190	-0.180	275	61920			10.00- 30.00	23.82
4.010	4.190	-0.180	365	7023			1.00- 0.00	2.70
4.010	4.190	-0.180	441	34288			0.01- 99.99	84.02
4.010	4.190	-0.180	442	215360			40.00- 100.00	82.86
4.010	4.190	-0.180	443	40808			17.00- 23.00	18.95

Data File: B8465.D

Date: 15-DEC-2011 09:10

Client ID: DFTPP Instrument: B.i

Sample Info: DFTPP-376439,,MS-DFTPP Operator: kiekeld



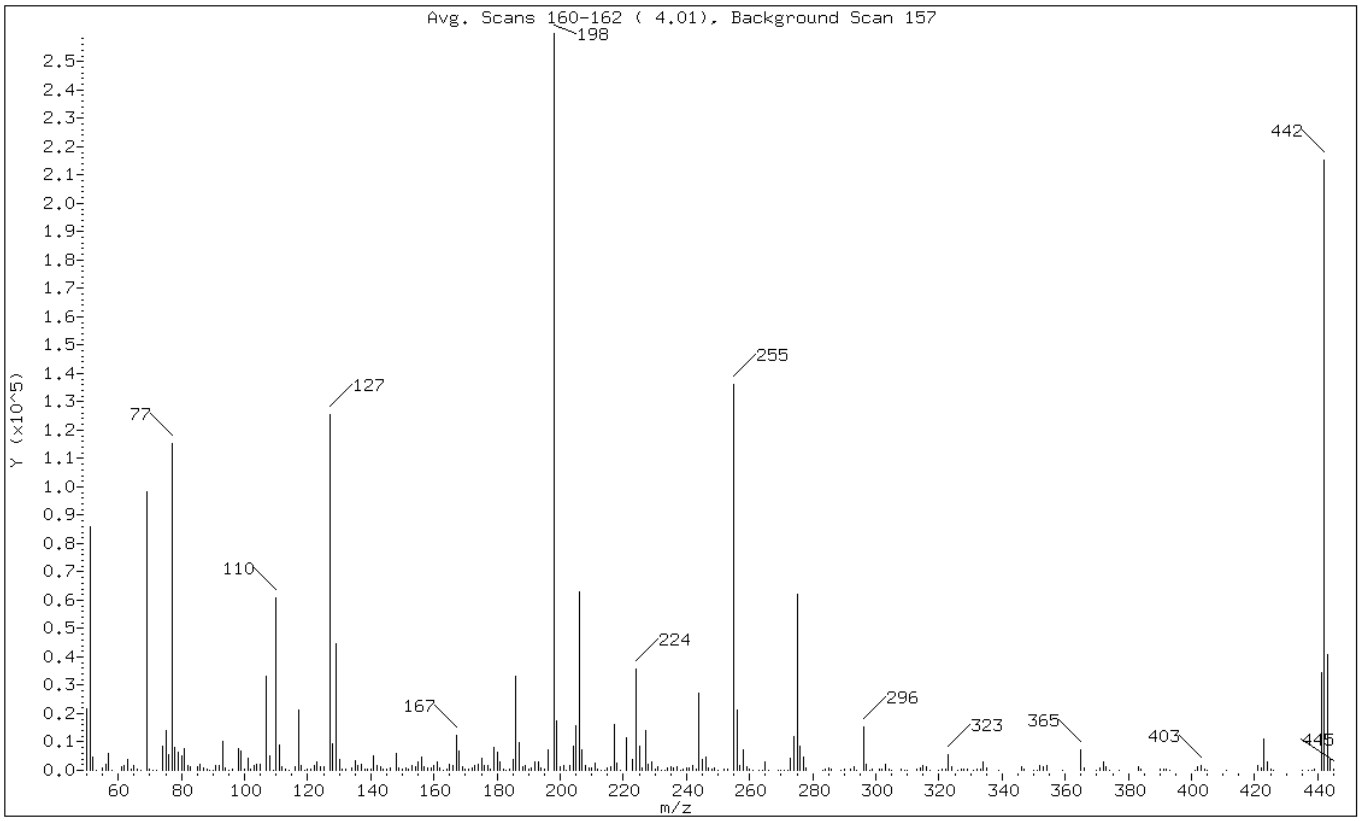
Data File: B8465.D

Date: 15-DEC-2011 09:10

Client ID: DFTPP Instrument: B.i

Sample Info: DFTPP-376439,,MS-DFTPP Operator: kiekeld

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	33.06
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	37.87
70	Less than 2.00% of mass 69	0.13 (0.33)
127	40.00 - 60.00% of mass 198	48.23
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.73
275	10.00 - 30.00% of mass 198	23.82
365	Greater than 1.00% of mass 198	2.70
441	Present, but less than mass 443	13.19
442	40.00 - 100.00% of mass 198	82.86
443	17.00 - 23.00% of mass 442	15.70 (18.95)

Data File: B8465.D

Date: 15-DEC-2011 09:10

Client ID: DFTPP Instrument: B.i

Sample Info: DFTPP-376439,,MS-DFTPP Operator: kiekeld

Data File: \\DenSvr03\Public\chem\MSS\B.i\121511.B\B8465.D
Spectrum: Avg. Scans 160-162 (4.01), Background Scan 157
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	21800	135.00	3361	211.00	2634	301.00	322
51.00	85920	136.00	1598	212.00	581	302.00	253
52.00	4472	137.00	2056	213.00	177	303.00	2009
53.00	111	138.00	558	214.00	54	304.00	567
55.00	950	139.00	250	215.00	800	305.00	50
56.00	2260	140.00	432	216.00	1221	308.00	314
57.00	5794	141.00	5249	217.00	16108	309.00	157
58.00	176	142.00	1766	218.00	2422	310.00	170
61.00	1103	143.00	1441	219.00	194	313.00	275
62.00	1596	144.00	535	221.00	11604	314.00	803
63.00	3626	145.00	390	223.00	3624	315.00	1777
64.00	576	146.00	1058	224.00	35896	316.00	1127
65.00	1617	148.00	5755	225.00	8678	317.00	73
66.00	243	149.00	957	226.00	661	320.00	179
67.00	39	150.00	624	227.00	14151	321.00	549
69.00	98432	151.00	890	228.00	2301	322.00	273
70.00	329	152.00	404	229.00	3087	323.00	5596
71.00	16	153.00	1644	230.00	431	324.00	1232
72.00	130	154.00	1336	231.00	1160	326.00	63
74.00	8677	155.00	3065	232.00	205	327.00	431
75.00	14005	156.00	4585	233.00	191	328.00	614
76.00	5408	157.00	1198	234.00	886	329.00	244
77.00	115096	158.00	908	235.00	1204	331.00	52
78.00	8162	159.00	1038	236.00	681	332.00	547
79.00	6220	160.00	1684	237.00	1389	333.00	601
80.00	4953	161.00	2812	238.00	148	334.00	3118
81.00	7583	162.00	805	239.00	475	335.00	1017
82.00	1663	163.00	77	240.00	648	339.00	56
83.00	1422	164.00	303	241.00	777	346.00	1271
85.00	1359	165.00	1966	242.00	1911	347.00	242
86.00	2076	166.00	1780	243.00	508	350.00	68
87.00	654	167.00	12329	244.00	27112	351.00	133
88.00	571	168.00	6684	245.00	3769	352.00	1494
89.00	69	169.00	1271	246.00	4833	353.00	1161
90.00	75	170.00	374	247.00	910	354.00	1857
91.00	1567	171.00	580	248.00	394	359.00	117
92.00	1737	172.00	885	249.00	674	365.00	7023
93.00	10123	173.00	1565	250.00	136	366.00	1055
94.00	934	174.00	2152	252.00	266	370.00	101
95.00	79	175.00	4362	253.00	520	371.00	644

96.00	490	176.00	1580	255.00	136256	372.00	2911
98.00	7617	177.00	1866	256.00	21184	373.00	1074
99.00	6688	178.00	278	257.00	1787	374.00	97
100.00	507	179.00	8019	258.00	7234	377.00	201
101.00	4357	180.00	6379	259.00	1163	383.00	1087
102.00	310	181.00	2822	260.00	250	384.00	265
103.00	1801	182.00	536	261.00	170	390.00	504
104.00	2199	183.00	198	263.00	64	391.00	496
105.00	2302	184.00	578	264.00	188	392.00	223
107.00	33032	185.00	3850	265.00	2828	393.00	76
108.00	5024	186.00	33384	266.00	133	401.00	32
109.00	189	187.00	9830	269.00	118	402.00	1300
110.00	60792	188.00	1212	270.00	115	403.00	1538
111.00	8990	189.00	1564	271.00	110	404.00	565
112.00	1104	190.00	235	272.00	140	405.00	192
113.00	370	191.00	645	273.00	4289	411.00	54
114.00	73	192.00	2819	274.00	12066	421.00	1493
116.00	1148	193.00	2792	275.00	61920	422.00	921
117.00	21352	194.00	833	276.00	8661	423.00	11108
118.00	1654	195.00	231	277.00	4700	424.00	3113
119.00	201	196.00	7024	278.00	970	425.00	226
120.00	543	198.00	259904	283.00	28	426.00	61
121.00	214	199.00	17480	284.00	457	435.00	65
122.00	1822	200.00	1294	285.00	1047	437.00	89
123.00	2962	201.00	1835	286.00	282	438.00	200
124.00	1466	202.00	170	289.00	163	439.00	395
125.00	1460	203.00	1592	290.00	302	441.00	34288
127.00	125352	204.00	8318	292.00	282	442.00	215360
128.00	9262	205.00	15591	293.00	1187	443.00	40808
129.00	44712	206.00	62872	294.00	190	444.00	3836
130.00	3955	207.00	7332	296.00	15168	445.00	301
131.00	365	208.00	1552	297.00	2195		
132.00	354	209.00	680	298.00	167		
134.00	943	210.00	742	299.00	291		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSS\B.i\122911.B\B8716.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 29-DEC-2011 12:29
Operator : kiekeld Inst ID: B.i
Smp Info : DFTPP-376439,,MS-DFTPP
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSS\B.i\122911.B\aDFTPPC.m
Meth Date : 21-Mar-2011 10:45 kiekeld Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: DENPC307

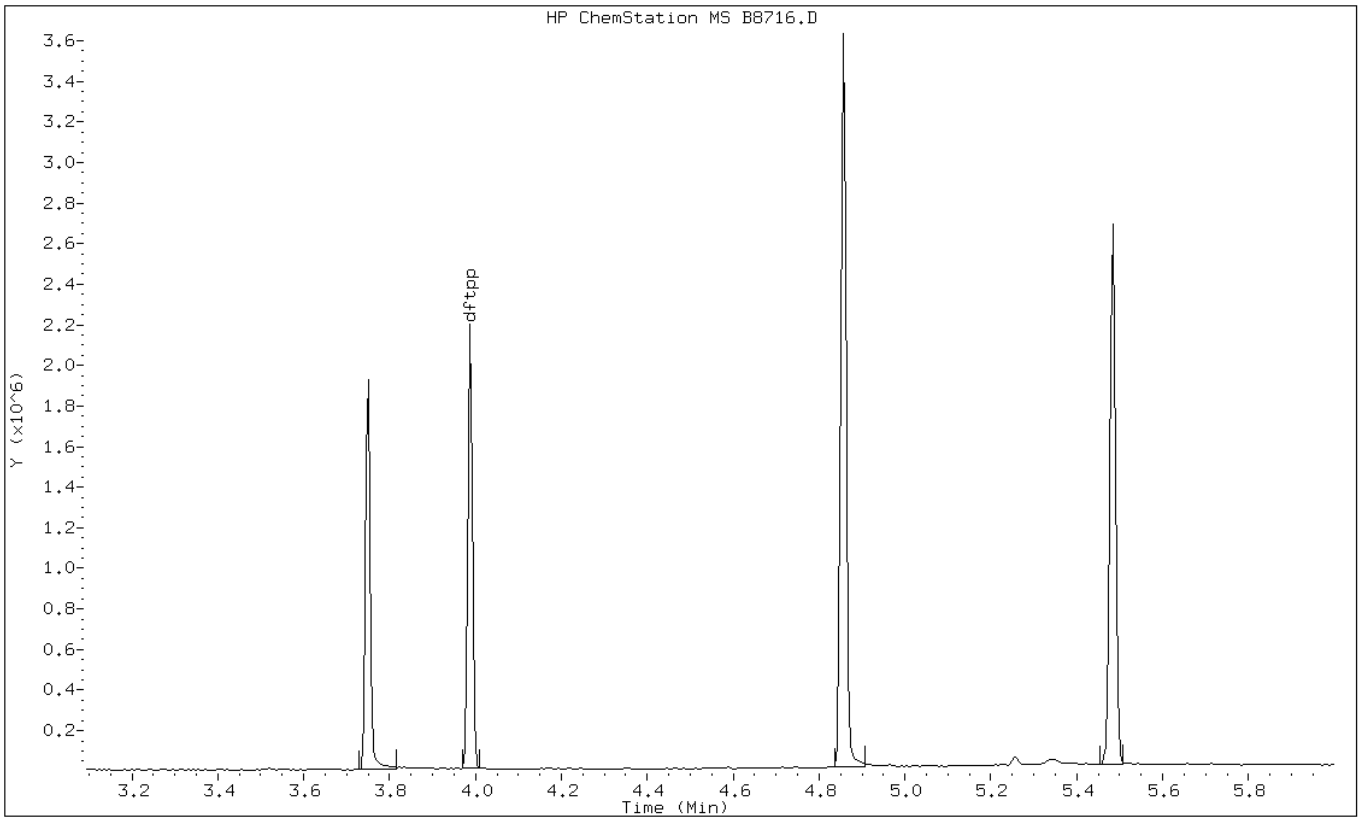
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
3.986	4.190	-0.204	198	186112			0.00- 100.00	100.00
3.986	4.190	-0.204	51	64664			30.00- 60.00	34.74
3.986	4.190	-0.204	68	0	0.0	0.0	0.00- 2.00	0.00
3.986	4.190	-0.204	69	72552			0.00- 0.00	38.98
3.986	4.190	-0.204	70	574			0.00- 2.00	0.79
3.986	4.190	-0.204	127	90000			40.00- 60.00	48.36
3.986	4.190	-0.204	197	0	0.0	0.0	0.00- 1.00	0.00
3.986	4.190	-0.204	199	11998			5.00- 9.00	6.45
3.986	4.190	-0.204	275	43640			10.00- 30.00	23.45
3.986	4.190	-0.204	365	4573			1.00- 0.00	2.46
3.986	4.190	-0.204	441	18456			0.01- 99.99	69.68
3.986	4.190	-0.204	442	137280			40.00- 100.00	73.76
3.986	4.190	-0.204	443	26488			17.00- 23.00	19.29

Data File: B8716.D

Date: 29-DEC-2011 12:29

Client ID: DFTPP Instrument: B.i

Sample Info: DFTPP-376439,,MS-DFTPP Operator: kiekeld



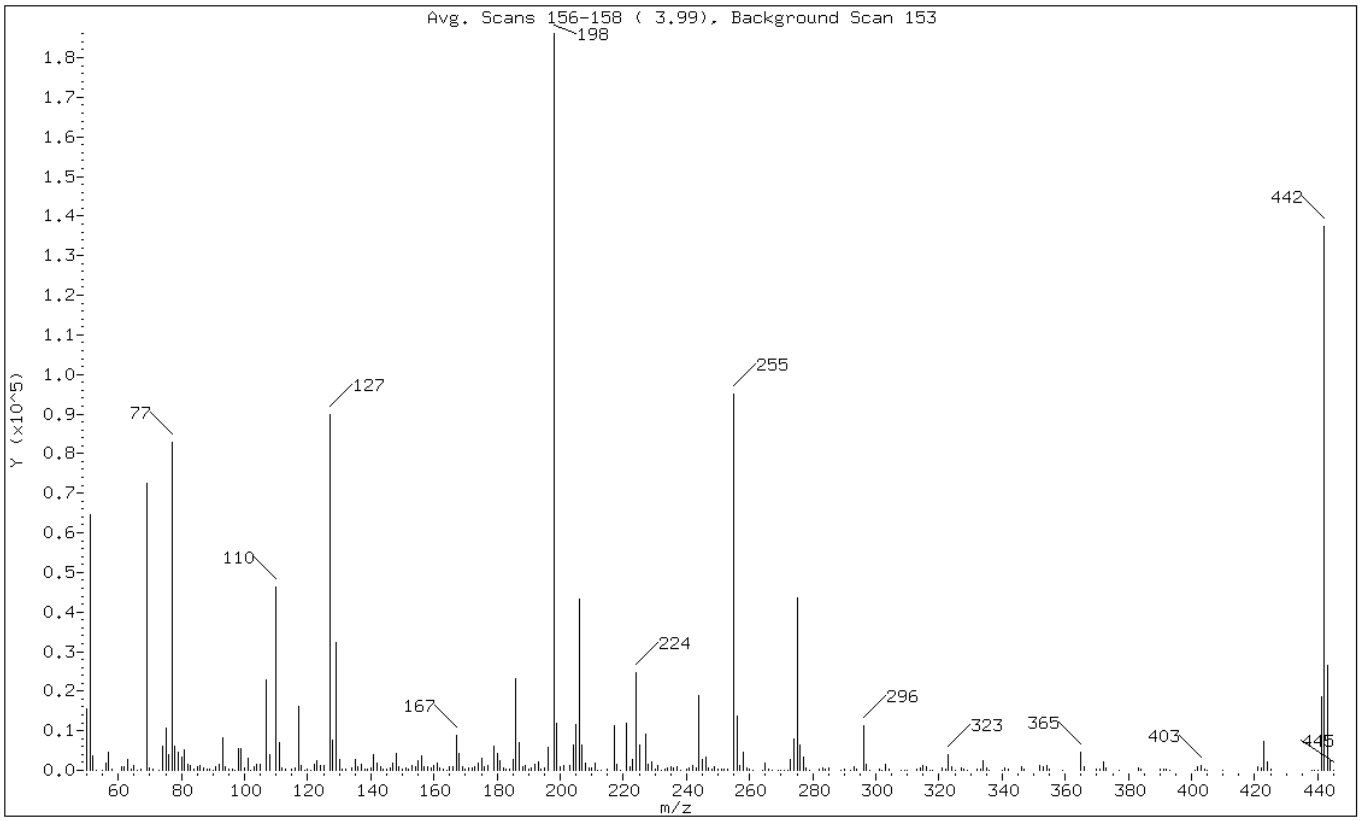
Data File: B8716.D

Date: 29-DEC-2011 12:29

Client ID: DFTPP Instrument: B.i

Sample Info: DFTPP-376439,,MS-DFTPP Operator: kiekeld

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.74
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	38.98
70	Less than 2.00% of mass 69	0.31 (0.79)
127	40.00 - 60.00% of mass 198	48.36
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.45
275	10.00 - 30.00% of mass 198	23.45
365	Greater than 1.00% of mass 198	2.46
441	Present, but less than mass 443	9.92
442	40.00 - 100.00% of mass 198	73.76
443	17.00 - 23.00% of mass 442	14.23 (19.29)

Data File: B8716.D

Date: 29-DEC-2011 12:29

Client ID: DFTPP Instrument: B.i

Sample Info: DFTPP-376439,,MS-DFTPP Operator: kiekeld

Data File: \\DenSvr03\Public\chem\MSS\B.i\122911.B\B8716.D
Spectrum: Avg. Scans 156-158 (3.99), Background Scan 153
Location of Maximum: 198.00
Number of points: 288

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	15561	132.00	205	209.00	489	298.00	133
51.00	64664	134.00	475	210.00	710	301.00	180
52.00	3526	135.00	2720	211.00	1809	302.00	114
53.00	96	136.00	935	212.00	85	303.00	1449
55.00	105	137.00	1418	213.00	109	304.00	347
56.00	1790	138.00	427	215.00	368	308.00	110
57.00	4651	139.00	242	217.00	11279	309.00	122
58.00	354	140.00	468	218.00	1506	310.00	55
61.00	913	141.00	3921	219.00	93	313.00	189
62.00	906	142.00	1863	221.00	11814	314.00	560
63.00	2670	143.00	1043	222.00	1060	315.00	1313
64.00	393	144.00	187	223.00	2815	316.00	825
65.00	1230	145.00	281	224.00	24664	317.00	135
66.00	150	146.00	638	225.00	6444	318.00	59
67.00	447	147.00	1742	227.00	9130	321.00	457
69.00	72552	148.00	4115	228.00	1432	322.00	195
70.00	574	149.00	998	229.00	2128	323.00	3955
71.00	180	150.00	414	230.00	384	324.00	774
73.00	21	151.00	482	231.00	1100	325.00	100
74.00	6234	152.00	356	232.00	130	327.00	616
75.00	10542	153.00	1206	233.00	177	328.00	244
76.00	3818	154.00	1038	234.00	502	329.00	94
77.00	82864	155.00	2340	235.00	825	332.00	325
78.00	6088	156.00	3578	236.00	473	333.00	391
79.00	4599	157.00	810	237.00	792	334.00	2345
80.00	3480	158.00	814	238.00	119	335.00	681
81.00	5260	159.00	604	240.00	256	336.00	60
82.00	1503	160.00	1143	241.00	553	340.00	149
83.00	1314	161.00	1889	242.00	1188	341.00	626
84.00	238	162.00	640	243.00	649	342.00	175
85.00	829	163.00	252	244.00	18960	346.00	869
86.00	1191	164.00	103	245.00	2671	347.00	243
87.00	594	165.00	954	246.00	3299	352.00	1221
88.00	211	166.00	943	247.00	606	353.00	788
89.00	226	167.00	8895	248.00	159	354.00	1167
90.00	61	168.00	4185	249.00	877	355.00	296
91.00	895	169.00	791	250.00	186	359.00	57
92.00	1471	170.00	364	251.00	277	365.00	4573
93.00	8197	171.00	524	252.00	175	366.00	832
94.00	771	172.00	728	253.00	393	370.00	218

95.00	318	173.00	936	255.00	94968	371.00	353
96.00	356	174.00	1785	256.00	13681	372.00	2248
97.00	26	175.00	3128	257.00	1147	373.00	642
98.00	5395	176.00	1001	258.00	4621	377.00	61
99.00	5548	177.00	1358	259.00	760	383.00	631
100.00	535	179.00	5987	260.00	154	384.00	200
101.00	2986	180.00	4317	261.00	124	390.00	331
102.00	140	181.00	2296	264.00	141	391.00	169
103.00	931	182.00	462	265.00	1814	392.00	175
104.00	1545	183.00	239	266.00	365	393.00	59
105.00	1499	184.00	371	267.00	75	401.00	115
107.00	22992	185.00	2822	269.00	65	402.00	928
108.00	4020	186.00	23224	270.00	62	403.00	1324
110.00	46360	187.00	7023	271.00	100	404.00	425
111.00	7028	188.00	818	272.00	108	405.00	81
112.00	690	189.00	1243	273.00	2887	410.00	64
113.00	362	190.00	207	274.00	7958	421.00	1012
115.00	258	191.00	512	275.00	43640	422.00	639
116.00	628	192.00	1587	276.00	6278	423.00	7339
117.00	16049	193.00	2033	277.00	3438	424.00	1995
118.00	1251	194.00	415	278.00	753	425.00	451
119.00	48	195.00	467	279.00	80	438.00	57
120.00	368	196.00	5916	282.00	277	439.00	69
121.00	105	198.00	186112	283.00	489	440.00	77
122.00	1496	199.00	11998	284.00	362	441.00	18456
123.00	2388	200.00	837	285.00	626	442.00	137280
124.00	1161	201.00	1235	289.00	141	443.00	26488
125.00	1221	203.00	1323	290.00	164	444.00	2582
127.00	90000	204.00	6533	292.00	53	445.00	89
128.00	7641	205.00	11667	293.00	811		
129.00	32200	206.00	43272	294.00	209		
130.00	2792	207.00	6303	296.00	11131		
131.00	305	208.00	1815	297.00	1609		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-99533/1-A

Matrix: Water | Lab File ID: B8723.D

Analysis Method: 8270D/DoD | Date Collected:

Extract. Method: 3520C | Date Extracted: 12/10/2011 12:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/29/2011 14:37

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 101947 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
92-52-4	1,1'-Biphenyl	2.0	U	10	2.0	1.8
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	10	2.0	1.7
120-82-1	1,2,4-Trichlorobenzene	1.0	U	10	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	10	1.0	0.23
122-66-7	1,2-Diphenylhydrazine	1.0	U	10	1.0	0.23
541-73-1	1,3-Dichlorobenzene	1.0	U	10	1.0	0.30
106-46-7	1,4-Dichlorobenzene	1.0	U	10	1.0	0.32
108-60-1	2,2'-oxybis[1-chloropropane]	1.0	U	10	1.0	0.28
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	50	2.0	2.0
95-95-4	2,4,5-Trichlorophenol	1.0	U	20	1.0	0.45
88-06-2	2,4,6-Trichlorophenol	1.0	U	20	1.0	0.29
120-83-2	2,4-Dichlorophenol	2.0	U	10	2.0	0.64
105-67-9	2,4-Dimethylphenol	4.0	U	10	4.0	0.58
51-28-5	2,4-Dinitrophenol	20	U	80	20	10
121-14-2	2,4-Dinitrotoluene	4.0	U	20	4.0	1.7
87-65-0	2,6-Dichlorophenol	4.0	U	10	4.0	1.4
606-20-2	2,6-Dinitrotoluene	4.0	U	20	4.0	1.9
91-58-7	2-Chloronaphthalene	1.0	U	10	1.0	0.26
95-57-8	2-Chlorophenol	4.0	U	10	4.0	2.0
91-57-6	2-Methylnaphthalene	1.0	U	10	1.0	0.29
95-48-7	2-Methylphenol	4.0	U	10	4.0	0.98
88-74-4	2-Nitroaniline	4.0	U	50	4.0	1.7
88-75-5	2-Nitrophenol	1.0	U	20	1.0	0.39
15831-10-4	3 & 4 Methylphenol	1.0	U	20	1.0	0.25
91-94-1	3,3'-Dichlorobenzidine	10	U	50	10	2.0
99-09-2	3-Nitroaniline	2.0	U	50	2.0	2.0
534-52-1	4,6-Dinitro-2-methylphenol	10	U	80	10	4.0
101-55-3	4-Bromophenyl phenyl ether	1.0	U	10	1.0	0.43
59-50-7	4-Chloro-3-methylphenol	5.0	U	20	5.0	2.4
106-47-8	4-Chloroaniline	5.0	U	25	5.0	2.1
7005-72-3	4-Chlorophenyl phenyl ether	4.0	U	10	4.0	1.7
100-01-6	4-Nitroaniline	4.0	U	50	4.0	2.0
100-02-7	4-Nitrophenol	10	U	50	10	1.2
83-32-9	Acenaphthene	1.0	U	10	1.0	0.28

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-99533/1-A

Matrix: Water | Lab File ID: B8723.D

Analysis Method: 8270D/DoD | Date Collected:

Extract. Method: 3520C | Date Extracted: 12/10/2011 12:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/29/2011 14:37

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 101947 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
208-96-8	Acenaphthylene	1.0	U	10	1.0	0.49
98-86-2	Acetophenone	5.0	U	10	5.0	0.24
120-12-7	Anthracene	1.0	U	10	1.0	0.42
1912-24-9	Atrazine	10	U	50	10	0.73
100-52-7	Benzaldehyde	2.0	U	10	2.0	2.0
92-87-5	Benzidine	100	U	200	100	50
56-55-3	Benzo[a]anthracene	1.0	U	10	1.0	0.35
50-32-8	Benzo[a]pyrene	1.0	U	10	1.0	0.31
205-99-2	Benzo[b]fluoranthene	1.0	U	10	1.0	0.53
191-24-2	Benzo[g,h,i]perylene	1.0	U	10	1.0	0.50
207-08-9	Benzo[k]fluoranthene	1.0	U	10	1.0	0.46
65-85-0	Benzoic acid	50	U	80	50	10
100-51-6	Benzyl alcohol	1.0	U	25	1.0	0.23
111-91-1	Bis(2-chloroethoxy)methane	4.0	U	10	4.0	0.97
111-44-4	Bis(2-chloroethyl)ether	1.0	U	20	1.0	0.41
117-81-7	Bis(2-ethylhexyl) phthalate	1.0	U	10	1.0	0.56
85-68-7	Butyl benzyl phthalate	4.0	U	20	4.0	1.0
105-60-2	Caprolactam	10	U	35	10	5.0
86-74-8	Carbazole	1.0	U	10	1.0	0.43
218-01-9	Chrysene	1.0	U	10	1.0	0.54
53-70-3	Dibenz(a,h)anthracene	1.0	U	10	1.0	0.51
132-64-9	Dibenzofuran	1.0	U	10	1.0	0.29
84-66-2	Diethyl phthalate	1.0	U	20	1.0	0.38
131-11-3	Dimethyl phthalate	1.0	U	20	1.0	0.21
84-74-2	Di-n-butyl phthalate	4.0	U	20	4.0	1.2
117-84-0	Di-n-octyl phthalate	1.0	U	20	1.0	0.35
206-44-0	Fluoranthene	1.0	U	20	1.0	0.20
86-73-7	Fluorene	1.0	U	10	1.0	0.31
118-74-1	Hexachlorobenzene	1.0	U	10	1.0	0.66
87-68-3	Hexachlorobutadiene	10	U	30	10	3.3
77-47-4	Hexachlorocyclopentadiene	20	U	50	20	1.5
67-72-1	Hexachloroethane	4.0	U	10	4.0	2.1
193-39-5	Indeno[1,2,3-cd]pyrene	1.0	U	10	1.0	0.65
78-59-1	Isophorone	1.0	U	10	1.0	0.21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-99533/1-A

Matrix: Water | Lab File ID: B8723.D

Analysis Method: 8270D/DoD | Date Collected:

Extract. Method: 3520C | Date Extracted: 12/10/2011 12:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/29/2011 14:37

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 101947 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
91-20-3	Naphthalene	1.0	U	10	1.0	0.29
98-95-3	Nitrobenzene	2.0	U	20	2.0	0.81
62-75-9	N-Nitrosodimethylamine	1.0	U	10	1.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	1.0	U	20	1.0	0.35
86-30-6	N-Nitrosodiphenylamine	1.0	U	10	1.0	0.44
930-55-2	N-Nitrosopyrrolidine	4.0	U	10	4.0	0.80
87-86-5	Pentachlorophenol	40	U	80	40	20
85-01-8	Phenanthrene	1.0	U	10	1.0	0.26
108-95-2	Phenol	5.0	U	10	5.0	2.0
129-00-0	Pyrene	1.0	U	10	1.0	0.37

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	86		40-125
321-60-8	2-Fluorobiphenyl	75		50-110
367-12-4	2-Fluorophenol (Surr)	81		20-110
4165-60-0	Nitrobenzene-d5 (Surr)	85		40-110
4165-62-2	Phenol-d5 (Surr)	86		10-115
1718-51-0	Terphenyl-d14 (Surr)	87		50-135

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\122911.B\B8723.D
Lab Smp Id: MB 280-99533/1-A
Inj Date : 29-DEC-2011 14:37
Operator : KIEKELD Inst ID: B.i
Smp Info : MB280-99533_1-A
Misc Info : MB 280-99533_1-A
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\122911.B\8270C.m
Meth Date : 30-Dec-2011 11:04 kiekeld Quant Type: ISTD
Cal Date : 22-DEC-2011 13:51 Cal File: B8562.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HAB.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 26	1,4-Dichlorobenzene-d4	152	4.892	4.896	(1.000)	305634	40.0000	
* 58	Naphthalene-d8	136	6.149	6.148	(1.000)	1225150	40.0000	
* 96	Acenaphthene-d10	164	7.877	7.881	(1.000)	722844	40.0000	
* 135	Phenanthrene-d10	188	9.152	9.150	(1.000)	1282816	40.0000	
* 166	Chrysene-d12	240	11.220	11.224	(1.000)	1402459	40.0000	
* 179	Perylene-d12	264	12.506	12.511	(1.000)	1263886	40.0000	
$ 8	2-Fluorophenol	112	3.646	3.650	(0.745)	1315898	122.070	122.070
$ 15	Phenol-d5	99	4.510	4.513	(0.922)	1697823	129.569	129.568
$ 43	Nitrobenzene-d5	82	5.438	5.436	(0.884)	970140	84.6675	84.6675
$ 81	2-Fluorobiphenyl	172	7.213	7.210	(0.916)	1708250	74.6293	74.6293
$ 118	2,4,6-Tribromophenol	330	8.576	8.579	(1.089)	476735	129.195	129.195
$ 154	Terphenyl-d14	244	10.362	10.359	(0.924)	2353914	86.9927	86.9927
$ 29	1,2-Dichlorobenzene-d4	152	5.045	5.048	(1.031)	529335	69.1826	69.1826
$ 22	2-Chlorophenol-d4	132	4.674	4.678	(0.956)	1460569	132.996	132.996
4	1,4-Dioxane	88	Compound Not Detected.					
5	N-Nitrosodimethylamine	74	Compound Not Detected.					
6	Pyridine	79	Compound Not Detected.					
9	2-Picoline	93	Compound Not Detected.					
10	N-Nitrosomethylethylamine	88	Compound Not Detected.					
11	Methyl methanesulfonate	80	Compound Not Detected.					
12	N-Nitrosodiethylamine	102	Compound Not Detected.					
13	Ethyl methanesulfonate	79	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
14	Benzaldehyde	106	4.486	4.485	(0.917)	808	0.09211	0.0921149(aQ)
16	Phenol	94	Compound Not Detected.					
18	Aniline	93	Compound Not Detected.					
19	Methyl Styrene	118	Compound Not Detected.					
20	Bis(2-chloroethyl) ether	93	Compound Not Detected.					
23	2-Chlorophenol	128	Compound Not Detected.					
24	Pentachloroethane	117	Compound Not Detected.					
25	1,3-Dichlorobenzene	146	Compound Not Detected.					
27	1,4-Dichlorobenzene	146	Compound Not Detected.					
28	Benzyl alcohol	108	Compound Not Detected.					
30	1,2-Dichlorobenzene	146	Compound Not Detected.					
32	2-Methylphenol	108	Compound Not Detected.					
34	2,2'-oxybis(1-chloropropane)	45	Compound Not Detected.					
35	1H-Indene	116	Compound Not Detected.					
138	3-Methylphenol	108	Compound Not Detected.					
36	4-Methylphenol	108	Compound Not Detected.					
139	3 & 4-Methylphenol	108	Compound Not Detected.					
37	N-nitrosodi-n-propylamine	70	Compound Not Detected.					
38	Acetophenone	105	Compound Not Detected.					
39	N-Nitrosopyrrolidine	100	Compound Not Detected.					
40	N-Nitrosomorpholine	116	Compound Not Detected.					
41	Hexachloroethane	117	Compound Not Detected.					
42	o-Toluidine	106	Compound Not Detected.					
44	Nitrobenzene	77	Compound Not Detected.					
46	N-Nitrosopiperidine	114	Compound Not Detected.					
47	Isophorone	82	Compound Not Detected.					
49	2-Nitrophenol	139	Compound Not Detected.					
50	2,4-Dimethylphenol	107	Compound Not Detected.					
51	O,O,O-Triethyl phosphorothio	198	Compound Not Detected.					
52	Bis(2-chloroethoxy)methane	93	Compound Not Detected.					
53	Benzoic acid	122	Compound Not Detected.					
54	2,4-Dichlorophenol	162	Compound Not Detected.					
55	a,a-Dimethylphenethylamine	58	Compound Not Detected.					
57	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
59	Naphthalene	128	Compound Not Detected.					
60	4-Chloroaniline	127	Compound Not Detected.					
61	2,6-Dichlorophenol	162	Compound Not Detected.					
62	Hexachlorobutadiene	225	Compound Not Detected.					
63	Hexachloropropene	213	Compound Not Detected.					
64	N-Nitrosodi-n-butylamine	84	Compound Not Detected.					
66	p-Phenylenediamine	108	Compound Not Detected.					
67	Caprolactam	55	Compound Not Detected.					
68	4-Chloro-3-methylphenol	107	Compound Not Detected.					
70	Safrole	162	Compound Not Detected.					
71	2-Methylnaphthalene	142	Compound Not Detected.					
72	1-Methylnaphthalene	142	Compound Not Detected.					
74	Hexachlorocyclopentadiene	237	Compound Not Detected.					
75	1,2,4,5-Tetrachlorobenzene	216	Compound Not Detected.					
76	Isosafrole (#1)	162	Compound Not Detected.					
78	2,4,6-Trichlorophenol	196	Compound Not Detected.					
80	2,4,5-Trichlorophenol	196	Compound Not Detected.					
84	Isosafrole (#2)	104	Compound Not Detected.					
85	Biphenyl	154	Compound Not Detected.					
87	1-Chloronaphthalene	162	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
86	2-Chloronaphthalene	162	Compound Not Detected.					
88	2-Nitroaniline	65	Compound Not Detected.					
89	1,4-Naphthoquinone	158	Compound Not Detected.					
90	1,4-Dinitrobenzene	168	Compound Not Detected.					
91	Dimethyl phthalate	163	Compound Not Detected.					
92	1,3-Dinitrobenzene	168	Compound Not Detected.					
93	2,6-Dinitrotoluene	165	Compound Not Detected.					
94	Acenaphthylene	152	Compound Not Detected.					
95	3-Nitroaniline	138	Compound Not Detected.					
97	Acenaphthene	153	Compound Not Detected.					
98	2,4-Dinitrophenol	184	Compound Not Detected.					
99	4-Nitrophenol	109	Compound Not Detected.					
100	Pentachlorobenzene	250	Compound Not Detected.					
101	2,4-Dinitrotoluene	165	Compound Not Detected.					
102	Dibenzofuran	168	Compound Not Detected.					
103	1-Naphthylamine	143	Compound Not Detected.					
104	2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					
106	2-Naphthylamine	143	Compound Not Detected.					
107	Diethyl phthalate	149	Compound Not Detected.					
108	Thionazin	97	Compound Not Detected.					
109	4-Chlorophenyl phenyl ether	204	Compound Not Detected.					
110	Fluorene	166	Compound Not Detected.					
111	5-Nitro-o-toluidine	152	Compound Not Detected.					
112	4-Nitroaniline	138	Compound Not Detected.					
113	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
115	N-nitrosodiphenylamine	169	Compound Not Detected.					
114	Diphenylamine	169	Compound Not Detected.					
116	Azobenzene	77	Compound Not Detected.					
234	1,2-DPH(as Azobenzene)	77	Compound Not Detected.					
117	Sulfotepp	97	Compound Not Detected.					
119	Diallate (#1)	86	Compound Not Detected.					
120	1,3,5-Trinitrobenzene	213	Compound Not Detected.					
121	Phorate	121	Compound Not Detected.					
122	Phenacetin	108	Compound Not Detected.					
123	Diallate (#2)	86	Compound Not Detected.					
124	4-Bromophenyl phenyl ether	248	Compound Not Detected.					
125	Hexachlorobenzene	284	Compound Not Detected.					
126	Dimethoate	87	Compound Not Detected.					
127	Atrazine	200	Compound Not Detected.					
129	Pentachlorophenol	266	Compound Not Detected.					
130	4-Aminobiphenyl	169	Compound Not Detected.					
131	Pentachloronitrobenzene	237	Compound Not Detected.					
132	Pronamide	173	Compound Not Detected.					
133	Disulfoton	88	Compound Not Detected.					
134	2-secbutyl-4,6-dinitropheno	211	Compound Not Detected.					
136	Phenanthrene	178	Compound Not Detected.					
137	Anthracene	178	Compound Not Detected.					
140	Carbazole	167	Compound Not Detected.					
141	Alachlor	188	Compound Not Detected.					
142	Methyl parathion	109	Compound Not Detected.					
143	Di-n-butyl phthalate	149	Compound Not Detected.					
145	Parathion	109	Compound Not Detected.					
146	4-Nitroquinoline-1-oxide	190	Compound Not Detected.					
147	Methapyrilene	97	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
148	Isodrin	193	Compound Not Detected.					
149	Fluoranthene	202	Compound Not Detected.					
151	Benzidine	184	Compound Not Detected.					
152	Pyrene	202	Compound Not Detected.					
153	Aramite (#1)	185	Compound Not Detected.					
155	Aramite (#2)	185	Compound Not Detected.					
156	p-Dimethylaminoazobenzene	120	Compound Not Detected.					
157	Chlorobenzilate	251	Compound Not Detected.					
158	Famphur	218	Compound Not Detected.					
159	Butyl benzyl phthalate	149	Compound Not Detected.					
160	3,3'-Dimethylbenzidine	212	Compound Not Detected.					
161	2-Acetylaminofluorene	181	Compound Not Detected.					
162	Bis(2-ethylhexyl) phthalate	149	Compound Not Detected.					
164	3 3'-Dichlorobenzidine	252	Compound Not Detected.					
165	Benzo(a)anthracene	228	Compound Not Detected.					
167	Chrysene	228	Compound Not Detected.					
168	Di-n-octyl phthalate	149	Compound Not Detected.					
170	Hexachlorophene	196	Compound Not Detected.					
171	Benzo(b)fluoranthene	252	Compound Not Detected.					
172	Benzo(k)fluoranthene	252	Compound Not Detected.					
176	7,12-Dimethylbenz(a)anthrac	256	Compound Not Detected.					
178	Benzo(a)pyrene	252	Compound Not Detected.					
181	3-Methylcholanthrene	268	Compound Not Detected.					
184	Dibenz(a,j)acridine	279	Compound Not Detected.					
185	Dibenz(a,h)anthracene	278	Compound Not Detected.					
186	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
188	Benzo(g,h,i)perylene	276	Compound Not Detected.					
M 173	Total Isosafrole	162	Compound Not Detected.					
M 174	Total Diallate	86	Compound Not Detected.					
M 175	Total Aramite	185	Compound Not Detected.					

QC Flag Legend

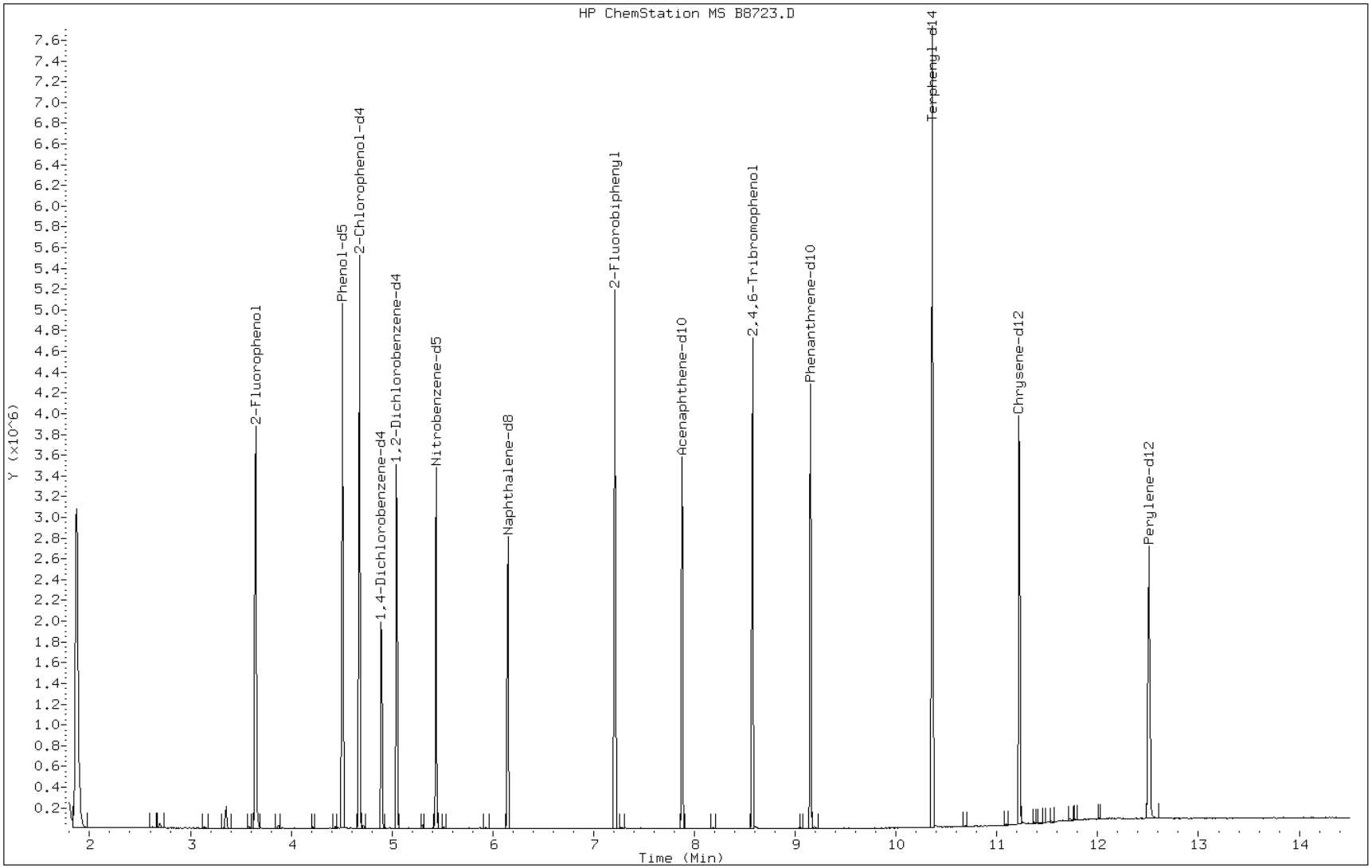
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: B8723.D

Date: 29-DEC-2011 14:37

Client ID: Instrument: B.i

Sample Info: MB280-99533_1-A Operator: KIEKELD



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-99533/2-A

Matrix: Water | Lab File ID: B8724.D

Analysis Method: 8270D/DoD | Date Collected:

Extract. Method: 3520C | Date Extracted: 12/10/2011 12:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/29/2011 14:57

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 101947 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
120-82-1	1,2,4-Trichlorobenzene	64.4		10	1.0	0.28
95-50-1	1,2-Dichlorobenzene	65.0		10	1.0	0.23
122-66-7	1,2-Diphenylhydrazine	74.9		10	1.0	0.23
541-73-1	1,3-Dichlorobenzene	62.6		10	1.0	0.30
106-46-7	1,4-Dichlorobenzene	64.4		10	1.0	0.32
108-60-1	2,2'-oxybis[1-chloropropane]	69.0		10	1.0	0.28
95-95-4	2,4,5-Trichlorophenol	71.9		20	1.0	0.45
88-06-2	2,4,6-Trichlorophenol	75.3		20	1.0	0.29
120-83-2	2,4-Dichlorophenol	71.9		10	2.0	0.64
105-67-9	2,4-Dimethylphenol	63.7		10	4.0	0.58
51-28-5	2,4-Dinitrophenol	71.7	J	80	20	10
121-14-2	2,4-Dinitrotoluene	78.5		20	4.0	1.7
606-20-2	2,6-Dinitrotoluene	73.7		20	4.0	1.9
91-58-7	2-Chloronaphthalene	69.1		10	1.0	0.26
95-57-8	2-Chlorophenol	70.0		10	4.0	2.0
91-57-6	2-Methylnaphthalene	67.8		10	1.0	0.29
95-48-7	2-Methylphenol	68.1		10	4.0	0.98
88-74-4	2-Nitroaniline	77.0		50	4.0	1.7
88-75-5	2-Nitrophenol	75.4		20	1.0	0.39
15831-10-4	3 & 4 Methylphenol	134		20	1.0	0.25
91-94-1	3,3'-Dichlorobenzidine	51.2		50	10	2.0
99-09-2	3-Nitroaniline	77.4		50	2.0	2.0
534-52-1	4,6-Dinitro-2-methylphenol	76.8	J	80	10	4.0
101-55-3	4-Bromophenyl phenyl ether	71.0		10	1.0	0.43
59-50-7	4-Chloro-3-methylphenol	73.7		20	5.0	2.4
106-47-8	4-Chloroaniline	67.8		25	5.0	2.1
7005-72-3	4-Chlorophenyl phenyl ether	70.9		10	4.0	1.7
100-01-6	4-Nitroaniline	76.5		50	4.0	2.0
100-02-7	4-Nitrophenol	75.3		50	10	1.2
83-32-9	Acenaphthene	69.7		10	1.0	0.28
208-96-8	Acenaphthylene	73.5		10	1.0	0.49
120-12-7	Anthracene	72.8		10	1.0	0.42
92-87-5	Benzidine	100	U	200	100	50
56-55-3	Benzo[a]anthracene	73.5		10	1.0	0.35

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-99533/2-A

Matrix: Water | Lab File ID: B8724.D

Analysis Method: 8270D/DoD | Date Collected:

Extract. Method: 3520C | Date Extracted: 12/10/2011 12:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/29/2011 14:57

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 101947 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
50-32-8	Benzo[a]pyrene	64.7		10	1.0	0.31
205-99-2	Benzo[b]fluoranthene	66.5		10	1.0	0.53
191-24-2	Benzo[g,h,i]perylene	73.7		10	1.0	0.50
207-08-9	Benzo[k]fluoranthene	74.0		10	1.0	0.46
65-85-0	Benzoic acid	72.5	J	80	50	10
100-51-6	Benzyl alcohol	72.4		25	1.0	0.23
111-91-1	Bis(2-chloroethoxy)methane	69.5		10	4.0	0.97
111-44-4	Bis(2-chloroethyl)ether	69.9		20	1.0	0.41
117-81-7	Bis(2-ethylhexyl) phthalate	80.5		10	1.0	0.56
85-68-7	Butyl benzyl phthalate	76.3		20	4.0	1.0
86-74-8	Carbazole	73.5		10	1.0	0.43
218-01-9	Chrysene	70.7		10	1.0	0.54
53-70-3	Dibenz(a,h)anthracene	73.7		10	1.0	0.51
132-64-9	Dibenzofuran	71.9		10	1.0	0.29
84-66-2	Diethyl phthalate	73.0		20	1.0	0.38
131-11-3	Dimethyl phthalate	74.0		20	1.0	0.21
84-74-2	Di-n-butyl phthalate	75.9		20	4.0	1.2
117-84-0	Di-n-octyl phthalate	78.5		20	1.0	0.35
206-44-0	Fluoranthene	73.6		20	1.0	0.20
86-73-7	Fluorene	71.7		10	1.0	0.31
118-74-1	Hexachlorobenzene	71.3		10	1.0	0.66
87-68-3	Hexachlorobutadiene	63.9		30	10	3.3
77-47-4	Hexachlorocyclopentadiene	41.8	J	50	20	1.5
67-72-1	Hexachloroethane	61.8		10	4.0	2.1
193-39-5	Indeno[1,2,3-cd]pyrene	71.5		10	1.0	0.65
78-59-1	Isophorone	71.4		10	1.0	0.21
91-20-3	Naphthalene	67.0		10	1.0	0.29
98-95-3	Nitrobenzene	69.6		20	2.0	0.81
62-75-9	N-Nitrosodimethylamine	68.0		10	1.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	70.1		20	1.0	0.35
86-30-6	N-Nitrosodiphenylamine	59.3		10	1.0	0.44
87-86-5	Pentachlorophenol	66.2	J	80	40	20
85-01-8	Phenanthrene	72.1		10	1.0	0.26
108-95-2	Phenol	71.4		10	5.0	2.0

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-99533/2-A

Matrix: Water | Lab File ID: B8724.D

Analysis Method: 8270D/DoD | Date Collected:

Extract. Method: 3520C | Date Extracted: 12/10/2011 12:10

Sample wt/vol: 1000(mL) | Date Analyzed: 12/29/2011 14:57

Con. Extract Vol.: 1000(uL) | Dilution Factor: 1

Injection Volume: 0.5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 101947 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
129-00-0	Pyrene	72.2		10	1.0	0.37

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	93		40-125
321-60-8	2-Fluorobiphenyl	78		50-110
367-12-4	2-Fluorophenol (Surr)	81		20-110
4165-60-0	Nitrobenzene-d5 (Surr)	86		40-110
4165-62-2	Phenol-d5 (Surr)	85		10-115
1718-51-0	Terphenyl-d14 (Surr)	91		50-135

TestAmerica

BNA ANALYSIS QUANTITATION REPORT

Data file : \\DenSvr03\Public\chem\MSS\B.i\122911.B\B8724.D
Lab Smp Id: LCS 280-99533/2-A
Inj Date : 29-DEC-2011 14:57
Operator : KIEKELD Inst ID: B.i
Smp Info : LCS280-99533_2-A
Misc Info : LCS 280-99533_2-A
Comment : SOP#CORP-MS-0001DEN, revision1.1
Method : \\DenSvr03\Public\chem\MSS\B.i\122911.B\8270C.m
Meth Date : 30-Dec-2011 11:04 kiekeld Quant Type: ISTD
Cal Date : 22-DEC-2011 13:51 Cal File: B8562.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HSL-9H-LCS.sub
Target Version: 4.14
Processing Host: DENPC307

Concentration Formula: Amt * DF * Vf/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	final volume at end of extraction (uL)
Vs	1000.000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 26 1,4-Dichlorobenzene-d4	152	4.895	4.896	(1.000)	310086	40.0000	
* 58 Naphthalene-d8	136	6.146	6.148	(1.000)	1233487	40.0000	
* 96 Acenaphthene-d10	164	7.879	7.881	(1.000)	737703	40.0000	
* 135 Phenanthrene-d10	188	9.154	9.150	(1.000)	1267834	40.0000	
* 166 Chrysene-d12	240	11.228	11.224	(1.000)	1339085	40.0000	
* 179 Perylene-d12	264	12.509	12.511	(1.000)	1252689	40.0000	
$ 8 2-Fluorophenol	112	3.649	3.650	(0.746)	1328895	121.506	121.506
$ 15 Phenol-d5	99	4.507	4.513	(0.921)	1704519	128.212	128.212
$ 43 Nitrobenzene-d5	82	5.435	5.436	(0.884)	991971	85.9876	85.9876
$ 81 2-Fluorobiphenyl	172	7.209	7.210	(0.915)	1832642	78.4510	78.4510
$ 118 2,4,6-Tribromophenol	330	8.578	8.579	(1.089)	525661	139.585	139.585
$ 154 Terphenyl-d14	244	10.359	10.359	(0.923)	2356477	91.2089	91.2089
$ 29 1,2-Dichlorobenzene-d4	152	5.047	5.048	(1.031)	587770	75.7170	75.7170
$ 22 2-Chlorophenol-d4	132	4.677	4.678	(0.956)	1467849	131.740	131.740
4 1,4-Dioxane	88	2.145	2.146	(0.438)	277687	59.9476	59.9476
6 Pyridine	79	2.468	2.469	(0.504)	684937	56.0055	56.0055
5 N-Nitrosodimethylamine	74	2.421	2.428	(0.495)	473680	67.9915	67.9915
18 Aniline	93	4.583	4.584	(0.936)	890090	54.1783	54.1783
16 Phenol	94	4.524	4.525	(0.924)	976168	71.3715	71.3715
20 Bis(2-chloroethyl) ether	93	4.618	4.619	(0.944)	729926	69.9470	69.9470
23 2-Chlorophenol	128	4.695	4.696	(0.959)	782106	70.0341	70.0341
25 1,3-Dichlorobenzene	146	4.842	4.842	(0.989)	810323	62.5688	62.5688

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
27	1,4-Dichlorobenzene	146	4.912	4.913	(1.004)	843307	64.4260	64.4260
28	Benzyl alcohol	108	5.012	5.013	(1.024)	532168	72.3784	72.3784
30	1,2-Dichlorobenzene	146	5.059	5.060	(1.034)	797806	64.9920	64.9920
32	2-Methylphenol	108	5.106	5.107	(1.043)	712114	68.0546	68.0546
34	2,2'-oxybis(1-chloropropane)	45	5.130	5.124	(1.048)	867650	68.9947	68.9947
138	3-Methylphenol	108	5.253	5.254	(1.073)	1459855	134.312	134.312
36	4-Methylphenol	108	5.253	5.254	(1.073)	1459855	134.312	134.312
139	3 & 4-Methylphenol	108	5.253	5.254	(1.073)	1459855	134.312	134.312
37	N-nitrosodi-n-propylamine	70	5.259	5.260	(1.074)	524525	70.1202	70.1202
41	Hexachloroethane	117	5.388	5.389	(1.101)	303322	61.8461	61.8461
44	Nitrobenzene	77	5.459	5.459	(0.888)	797898	69.6019	69.6019
47	Isophorone	82	5.670	5.671	(0.923)	1389265	71.4145	71.4145
49	2-Nitrophenol	139	5.770	5.771	(0.939)	432397	75.3972	75.3972
50	2,4-Dimethylphenol	107	5.776	5.777	(0.940)	676736	63.7403	63.7403
52	Bis(2-chloroethoxy)methane	93	5.870	5.871	(0.955)	869501	69.5361	69.5360
53	Benzoic acid	122	5.852	5.853	(0.952)	422207	72.5009	72.5009
54	2,4-Dichlorophenol	162	5.993	5.994	(0.975)	659140	71.8716	71.8716
57	1,2,4-Trichlorobenzene	180	6.081	6.082	(0.989)	692275	64.4021	64.4021
59	Naphthalene	128	6.170	6.170	(1.004)	2175145	67.0001	67.0001
60	4-Chloroaniline	127	6.217	6.217	(1.011)	923454	67.8303	67.8303
62	Hexachlorobutadiene	225	6.269	6.270	(1.020)	389255	63.9178	63.9178
68	4-Chloro-3-methylphenol	107	6.675	6.681	(1.086)	682056	73.6879	73.6878
71	2-Methylnaphthalene	142	6.857	6.858	(1.116)	1510356	67.7816	67.7816
72	1-Methylnaphthalene	142	6.957	6.958	(1.132)	1502562	71.4727	71.4727
74	Hexachlorocyclopentadiene	237	6.998	6.999	(0.888)	260156	41.8334	41.8334
78	2,4,6-Trichlorophenol	196	7.133	7.134	(0.905)	491367	75.3260	75.3260
80	2,4,5-Trichlorophenol	196	7.168	7.175	(0.910)	523665	71.9235	71.9235
86	2-Chloronaphthalene	162	7.350	7.351	(0.933)	1418597	69.0589	69.0589
88	2-Nitroaniline	65	7.456	7.457	(0.946)	428998	76.9661	76.9661
91	Dimethyl phthalate	163	7.597	7.598	(0.964)	1707824	74.0033	74.0033
93	2,6-Dinitrotoluene	165	7.674	7.674	(0.974)	423392	73.7334	73.7334
94	Acenaphthylene	152	7.750	7.751	(0.984)	2348032	73.5328	73.5328
95	3-Nitroaniline	138	7.844	7.845	(0.996)	490383	77.4171	77.4170
97	Acenaphthene	153	7.909	7.909	(1.004)	1455488	69.7225	69.7225
98	2,4-Dinitrophenol	184	7.932	7.933	(1.007)	230729	71.7435	71.7435
99	4-Nitrophenol	109	7.973	7.974	(1.012)	247308	75.2586	75.2586
101	2,4-Dinitrotoluene	165	8.044	8.045	(1.021)	568089	78.5331	78.5331
102	Dibenzofuran	168	8.061	8.062	(1.023)	2109513	71.9081	71.9081
107	Diethyl phthalate	149	8.220	8.221	(1.043)	1661977	72.9747	72.9747
109	4-Chlorophenyl phenyl ether	204	8.343	8.344	(1.059)	834170	70.8578	70.8578
110	Fluorene	166	8.367	8.368	(1.062)	1781501	71.6719	71.6719
112	4-Nitroaniline	138	8.390	8.391	(1.065)	476987	76.5369	76.5369
113	4,6-Dinitro-2-methylphenol	198	8.402	8.403	(0.918)	337757	76.7904	76.7904
115	N-nitrosodiphenylamine	169	8.449	8.450	(0.923)	1213425	59.2610	59.2610
116	Azobenzene	77	8.484	8.479	(1.077)	1692902	74.0939	74.0939
234	1,2-DPH(as Azobenzene)	77	8.484	8.479	(1.077)	1692902	74.9070	74.9070
124	4-Bromophenyl phenyl ether	248	8.761	8.761	(0.957)	505126	71.0461	71.0461
125	Hexachlorobenzene	284	8.831	8.832	(0.965)	540606	71.2865	71.2865
129	Pentachlorophenol	266	8.990	8.991	(0.982)	320680	66.1681	66.1681
136	Phenanthrene	178	9.172	9.173	(1.002)	2527765	72.1101	72.1101
137	Anthracene	178	9.213	9.214	(1.006)	2537191	72.7649	72.7649
140	Carbazole	167	9.336	9.337	(1.020)	2437977	73.5187	73.5187
143	Di-n-butyl phthalate	149	9.536	9.537	(1.042)	2785685	75.9472	75.9472
149	Fluoranthene	202	10.106	10.107	(1.104)	2779724	73.5996	73.5996
151	Benzidine	184	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
152 Pyrene	202	10.288	10.289	(0.916)	2809123	72.2379	72.2379
159 Butyl benzyl phthalate	149	10.694	10.700	(0.952)	1257639	76.2715	76.2715
164 3 3'-Dichlorobenzidine	252	11.170	11.182	(0.995)	645247	51.1997	51.1997
165 Benzo(a)anthracene	228	11.217	11.223	(0.999)	2719908	73.4642	73.4642
167 Chrysene	228	11.246	11.258	(1.002)	2587553	70.7430	70.7430
162 Bis(2-ethylhexyl) phthalate	149	11.093	11.100	(0.988)	1718980	80.5414	80.5414
168 Di-n-octyl phthalate	149	11.587	11.599	(1.032)	2926366	78.4899	78.4899
171 Benzo(b)fluoranthene	252	12.115	12.128	(0.969)	2546828	66.4878	66.4878(H)
172 Benzo(k)fluoranthene	252	12.139	12.157	(0.970)	2954814	74.0441	74.0441
178 Benzo(a)pyrene	252	12.456	12.469	(0.996)	2238821	64.6945	64.6945
186 Indeno(1,2,3-cd)pyrene	276	13.814	13.826	(1.230)	2757731	71.5419	71.5419
185 Dibenz(a,h)anthracene	278	13.808	13.820	(1.104)	2390365	73.6638	73.6638
188 Benzo(g,h,i)perylene	276	14.225	14.237	(1.137)	2482798	73.7452	73.7452

QC Flag Legend

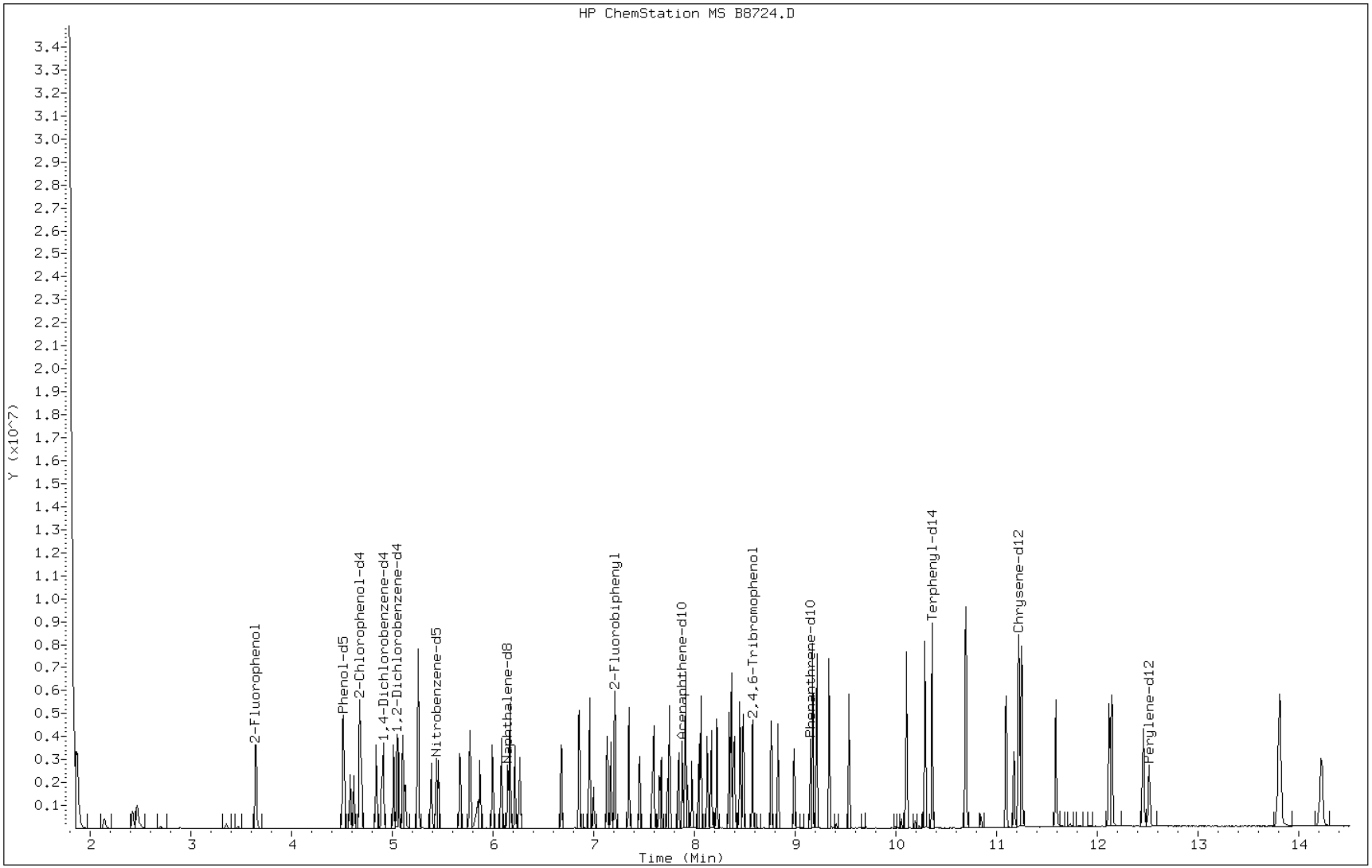
H - Operator selected an alternate compound hit.

Data File: B8724.D

Date: 29-DEC-2011 14:57

Client ID: Instrument: B.i

Sample Info: LCS280-99533_2-A Operator: KIEKELD



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MSS_B Start Date: 12/05/2011 11:35

Analysis Batch Number: 99260 End Date: 12/05/2011 16:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 280-99260/1		12/05/2011 11:35	1	B8326.D	Vf-5MS (30.25) 0.25(mm)
ICIS 280-99260/2		12/05/2011 14:21	1	B8335.D	Vf-5MS (30.25) 0.25(mm)
STD010 280-99260/3 IC		12/05/2011 14:41	1	B8336.D	Vf-5MS (30.25) 0.25(mm)
STD020 280-99260/4 IC		12/05/2011 15:00	1	B8337.D	Vf-5MS (30.25) 0.25(mm)
STD050 280-99260/5 IC		12/05/2011 15:20	1	B8338.D	Vf-5MS (30.25) 0.25(mm)
STD120 280-99260/6 IC		12/05/2011 15:39	1	B8339.D	Vf-5MS (30.25) 0.25(mm)
STD160 280-99260/7 IC		12/05/2011 15:59	1	B8340.D	Vf-5MS (30.25) 0.25(mm)
STD200 280-99260/8 IC		12/05/2011 16:18	1	B8341.D	Vf-5MS (30.25) 0.25(mm)
ICV 280-99260/9		12/05/2011 16:38	1	B8342.D	Vf-5MS (30.25) 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MSS_B Start Date: 12/06/2011 08:15

Analysis Batch Number: 99305 End Date: 12/06/2011 17:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 280-99305/1		12/06/2011 08:15	1	B8355.D	Vf-5MS (30.25) 0.25(mm)
ICIS 280-99305/2		12/06/2011 14:38	1	B8375.D	Vf-5MS (30.25) 0.25(mm)
STD010 280-99305/3 IC		12/06/2011 14:58	1	B8376.D	Vf-5MS (30.25) 0.25(mm)
STD020 280-99305/4 IC		12/06/2011 15:17	1	B8377.D	Vf-5MS (30.25) 0.25(mm)
STD050 280-99305/5 IC		12/06/2011 15:37	1	B8378.D	Vf-5MS (30.25) 0.25(mm)
STD120 280-99305/6 IC		12/06/2011 15:56	1	B8379.D	Vf-5MS (30.25) 0.25(mm)
STD160 280-99305/7 IC		12/06/2011 16:16	1	B8380.D	Vf-5MS (30.25) 0.25(mm)
STD200 280-99305/8 IC		12/06/2011 16:36	1	B8381.D	Vf-5MS (30.25) 0.25(mm)
ICV 280-99305/9		12/06/2011 16:55	1	B8382.D	Vf-5MS (30.25) 0.25(mm)
ICV 280-99305/10		12/06/2011 17:15	1	B8383.D	Vf-5MS (30.25) 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MSS_B Start Date: 12/15/2011 09:10

Analysis Batch Number: 100158 End Date: 12/15/2011 12:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 280-100158/1		12/15/2011 09:10	1	B8465.D	Vf-5MS (30.25) 0.25(mm)
ICIS 280-100158/2		12/15/2011 09:20	1	B8466.D	Vf-5MS (30.25) 0.25(mm)
STD004 280-100158/3 IC		12/15/2011 09:39	1	B8467.D	Vf-5MS (30.25) 0.25(mm)
STD010 280-100158/4 IC		12/15/2011 09:59	1	B8468.D	Vf-5MS (30.25) 0.25(mm)
STD020 280-100158/5 IC		12/15/2011 10:18	1	B8469.D	Vf-5MS (30.25) 0.25(mm)
STD050 280-100158/6 IC		12/15/2011 10:38	1	B8470.D	Vf-5MS (30.25) 0.25(mm)
STD120 280-100158/7 IC		12/15/2011 10:57	1	B8471.D	Vf-5MS (30.25) 0.25(mm)
STD160 280-100158/8 IC		12/15/2011 11:17	1	B8472.D	Vf-5MS (30.25) 0.25(mm)
STD200 280-100158/9 IC		12/15/2011 11:36	1	B8473.D	Vf-5MS (30.25) 0.25(mm)
ICV 280-100158/10		12/15/2011 11:55	1	B8474.D	Vf-5MS (30.25) 0.25(mm)
ICV 280-100158/11		12/15/2011 12:15	1	B8475.D	Vf-5MS (30.25) 0.25(mm)
ICV 280-100158/12		12/15/2011 12:34	1	B8476.D	Vf-5MS (30.25) 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MSS_B Start Date: 12/29/2011 12:29

Analysis Batch Number: 101947 End Date: 12/30/2011 09:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 280-101947/1		12/29/2011 12:29	1	B8716.D	Vf-5MS (30.25) 0.25(mm)
CCV 280-101947/2		12/29/2011 12:39	1	B8717.D	Vf-5MS (30.25) 0.25(mm)
CCV 280-101947/3		12/29/2011 12:59	1	B8718.D	Vf-5MS (30.25) 0.25(mm)
CCV 280-101947/4		12/29/2011 13:19	1	B8719.D	Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 13:38	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 13:58	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 14:17	1		Vf-5MS (30.25) 0.25(mm)
MB 280-99533/1-A		12/29/2011 14:37	1	B8723.D	Vf-5MS (30.25) 0.25(mm)
LCS 280-99533/2-A		12/29/2011 14:57	1	B8724.D	Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 15:16	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 15:36	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 15:55	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 16:15	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 16:35	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 16:54	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 17:14	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 17:33	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 17:53	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 18:12	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 18:32	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 18:51	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 19:10	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 19:30	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 19:49	1		Vf-5MS (30.25) 0.25(mm)
280-23566-1	B3VM0114AA	12/29/2011 20:09	1	B8740.D	Vf-5MS (30.25) 0.25(mm)
280-23566-2	120711AE	12/29/2011 20:28	1	B8741.D	Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 20:47	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 21:07	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 21:26	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 21:46	10		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 22:05	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 22:24	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 22:44	10		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/29/2011 23:23	10		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/30/2011 08:48	1		Vf-5MS (30.25) 0.25(mm)
ZZZZZ		12/30/2011 09:07	1		Vf-5MS (30.25) 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Batch Number: 99533 Batch Start Date: 12/10/11 12:10 Batch Analyst: Cullen, Craig R

Batch Method: 3520C Batch End Date: 12/19/11 22:11

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	GrossWeight	TareWeight	InitialAmount	FinalAmount	FirstAdjustpH
MB 280-99533/1		3520C, 8270D/DoD		7 SU			1000 mL	1000 uL	2 SU
LCS 280-99533/2		3520C, 8270D/DoD		7 SU			1000 mL	1000 uL	2 SU
280-23566-B-1	B3VM0114AA	3520C, 8270D/DoD	T	7 SU	1535.2 g	500.9 g	1034.3 mL	1000 uL	2 SU
280-23566-B-2	120711AE	3520C, 8270D/DoD	T	5 SU	1523.8 g	501.5 g	1022.3 mL	1000 uL	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	8270LCS80ppm 00029	8270Surrogate 00036			
MB 280-99533/1		3520C, 8270D/DoD		11 SU		1 mL			
LCS 280-99533/2		3520C, 8270D/DoD		11 SU	1 mL	1 mL			
280-23566-B-1	B3VM0114AA	3520C, 8270D/DoD	T	11 SU		1 mL			
280-23566-B-2	120711AE	3520C, 8270D/DoD	T	11 SU		1 mL			

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Batch Number: 99533 Batch Start Date: 12/10/11 12:10 Batch Analyst: Cullen, Craig R

Batch Method: 3520C Batch End Date: 12/19/11 22:11

Batch Notes	
Acid used for pH adjustment	1:1H2SO4
Acid used for pH adjust Lot #	1:1H2SO4_0005
Base used for pH adjustment	10N NaOH
Base used for pH adjust Lot #	10N NaOH_00002
Batch Comment	DV OP 0008/0007 elga H20 NaCL K34598 pip H bal:24750396
Person's name who did the concentration	PottruffE/CokleyC
Time the first extraction ended 24hr	12/11/11 1215
Time the first extraction started 24 hr	12/10/11 1215
Na2SO4 Lot Number	K28619_00001
Prep Solvent Lot #	MeCl2_Cycl_0005
Prep Solvent Name	MeCl2
Prep Solvent Volume Used	300 mL
Person's name who did the prep	CullenC-H
Person's name who witnessed reagent drop	Reviewer: VuD
Time the second extractino ended 24 hr	12/12/11 1221
Time the second extration started 24 hr	12/11/11 1220
Sufficient volume for MS/MSD?	no
Water Bath ID	B
Water Bath Temperature	84C Degrees C

Basis	Basis Description
T	Total/NA

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG No.:

Project: Griffiss AFB Building 3

Client Sample ID	Lab Sample ID
B3VM0114AA	280-23566-1
120711AE	280-23566-2

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B3VM0114AA
Lab Sample ID: 280-23566-1
Lab Name: TestAmerica Denver
Job No.: 280-23566-1
SDG ID.:
Matrix: Water
Date Sampled: 12/07/2011 11:20
Reporting Basis: WET
Date Received: 12/08/2011 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Aluminum	160	300	30	18	ug/L	J		1	6010B
Boron	22	100	4.0	4.4	ug/L	J		1	6010B
Calcium	88000	1000	80	35	ug/L			1	6010B
Iron	190	100	30	22	ug/L			1	6010B
Magnesium	9200	500	25	11	ug/L			1	6010B
Potassium	3700	3000	250	240	ug/L			1	6010B
Sodium	78000	5000	250	92	ug/L			1	6010B
Antimony	0.20	6.0	0.20	0.070	ug/L	J		1	6020
Arsenic	0.21	5.0	0.60	0.21	ug/L	J		1	6020
Barium	36	3.0	0.85	0.29	ug/L			1	6020
Beryllium	0.24	1.0	0.24	0.080	ug/L	U		1	6020
Cadmium	0.088	1.0	0.12	0.040	ug/L	J	Q	1	6020
Chromium	3.5	10	1.5	0.50	ug/L	J		1	6020
Cobalt	0.19	1.0	0.030	0.010	ug/L	J		1	6020
Copper	1.1	2.0	1.5	0.56	ug/L	J		1	6020
Lead	0.18	3.0	0.50	0.18	ug/L	J		1	6020
Manganese	20	3.5	0.90	0.31	ug/L			1	6020
Molybdenum	0.79	2.0	0.40	0.14	ug/L	J		1	6020
Nickel	1.1	3.0	0.90	0.30	ug/L	J		1	6020
Selenium	2.0	5.0	2.0	0.70	ug/L	U		1	6020
Silver	0.019	5.0	0.045	0.015	ug/L	J		1	6020
Thallium	0.072	1.0	0.060	0.020	ug/L	J		1	6020
Vanadium	0.49	6.0	0.40	0.14	ug/L	J		1	6020
Zinc	2.2	20	6.0	2.0	ug/L	J		1	6020
Mercury	0.080	0.20	0.080	0.027	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: B3VM0114AA
Lab Sample ID: 280-23566-1
Lab Name: TestAmerica Denver
Job No.: 280-23566-1
SDG ID.:
Matrix: Water
Date Sampled: 12/07/2011 11:20
Reporting Basis: WET
Date Received: 12/08/2011 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Aluminum	30	300	30	18	ug/L	U		1	6010B
Calcium	89000	1000	80	35	ug/L			1	6010B
Iron	30	100	30	22	ug/L	U		1	6010B
Magnesium	9200	500	25	11	ug/L			1	6010B
Potassium	3600	3000	250	240	ug/L			1	6010B
Sodium	80000	5000	250	92	ug/L			1	6010B
Boron	26	100	7.0	4.4	ug/L	J		1	6010B
Antimony	0.15	6.0	0.20	0.070	ug/L	J		1	6020
Arsenic	0.60	5.0	0.60	0.21	ug/L	U		1	6020
Barium	33	3.0	0.85	0.29	ug/L			1	6020
Beryllium	0.24	1.0	0.24	0.080	ug/L	U		1	6020
Cadmium	0.12	1.0	0.12	0.040	ug/L	U	Q	1	6020
Chromium	1.6	10	1.5	0.50	ug/L	J		1	6020
Cobalt	0.079	1.0	0.030	0.010	ug/L	J		1	6020
Copper	1.5	2.0	1.5	0.56	ug/L	U		1	6020
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020
Manganese	0.90	3.5	0.90	0.31	ug/L	U		1	6020
Molybdenum	0.71	2.0	0.40	0.14	ug/L	J		1	6020
Nickel	0.53	3.0	0.90	0.30	ug/L	J		1	6020
Selenium	2.0	5.0	2.0	0.70	ug/L	U		1	6020
Silver	0.017	5.0	0.045	0.015	ug/L	J		1	6020
Thallium	0.063	1.0	0.060	0.020	ug/L	J		1	6020
Vanadium	0.40	6.0	0.40	0.14	ug/L	U		1	6020
Zinc	6.0	20	6.0	2.0	ug/L	U		1	6020
Mercury	0.080	0.20	0.080	0.027	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 120711AE
Lab Sample ID: 280-23566-2
Lab Name: TestAmerica Denver
Job No.: 280-23566-1
SDG ID.:
Matrix: Water
Date Sampled: 12/07/2011 15:05
Reporting Basis: WET
Date Received: 12/08/2011 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Aluminum	30	300	30	18	ug/L	U		1	6010B
Boron	4.0	100	4.0	4.4	ug/L	U		1	6010B
Calcium	140	1000	80	35	ug/L	J		1	6010B
Iron	30	100	30	22	ug/L	U		1	6010B
Magnesium	25	500	25	11	ug/L	U		1	6010B
Potassium	250	3000	250	240	ug/L	U		1	6010B
Sodium	250	5000	250	92	ug/L	U		1	6010B
Antimony	0.20	6.0	0.20	0.070	ug/L	U		1	6020
Arsenic	0.60	5.0	0.60	0.21	ug/L	U		1	6020
Barium	0.38	3.0	0.85	0.29	ug/L	J		1	6020
Beryllium	0.24	1.0	0.24	0.080	ug/L	U		1	6020
Cadmium	0.12	1.0	0.12	0.040	ug/L	U	Q	1	6020
Chromium	1.5	10	1.5	0.50	ug/L	U		1	6020
Cobalt	0.030	1.0	0.030	0.010	ug/L	U		1	6020
Copper	1.5	2.0	1.5	0.56	ug/L	U		1	6020
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020
Manganese	0.90	3.5	0.90	0.31	ug/L	U		1	6020
Molybdenum	0.40	2.0	0.40	0.14	ug/L	U		1	6020
Nickel	0.90	3.0	0.90	0.30	ug/L	U		1	6020
Selenium	2.0	5.0	2.0	0.70	ug/L	U		1	6020
Silver	0.045	5.0	0.045	0.015	ug/L	U		1	6020
Thallium	0.060	1.0	0.060	0.020	ug/L	U		1	6020
Vanadium	0.40	6.0	0.40	0.14	ug/L	U		1	6020
Zinc	3.8	20	6.0	2.0	ug/L	J		1	6020
Mercury	0.080	0.20	0.080	0.027	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 120711AE
Lab Sample ID: 280-23566-2
Lab Name: TestAmerica Denver
Job No.: 280-23566-1
SDG ID.:
Matrix: Water
Date Sampled: 12/07/2011 15:05
Reporting Basis: WET
Date Received: 12/08/2011 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Aluminum	30	300	30	18	ug/L	U		1	6010B
Calcium	67	1000	80	35	ug/L	J		1	6010B
Iron	30	100	30	22	ug/L	U		1	6010B
Magnesium	25	500	25	11	ug/L	U		1	6010B
Potassium	250	3000	250	240	ug/L	U		1	6010B
Sodium	170	5000	250	92	ug/L	J		1	6010B
Boron	7.0	100	7.0	4.4	ug/L	U		1	6010B
Antimony	0.20	6.0	0.20	0.070	ug/L	U		1	6020
Arsenic	0.60	5.0	0.60	0.21	ug/L	U		1	6020
Barium	0.85	3.0	0.85	0.29	ug/L	U		1	6020
Beryllium	0.24	1.0	0.24	0.080	ug/L	U		1	6020
Cadmium	0.12	1.0	0.12	0.040	ug/L	U	Q	1	6020
Chromium	1.5	10	1.5	0.50	ug/L	U		1	6020
Cobalt	0.030	1.0	0.030	0.010	ug/L	U		1	6020
Copper	1.5	2.0	1.5	0.56	ug/L	U		1	6020
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020
Manganese	0.90	3.5	0.90	0.31	ug/L	U		1	6020
Molybdenum	0.40	2.0	0.40	0.14	ug/L	U		1	6020
Nickel	0.90	3.0	0.90	0.30	ug/L	U		1	6020
Selenium	2.0	5.0	2.0	0.70	ug/L	U		1	6020
Silver	0.045	5.0	0.045	0.015	ug/L	U		1	6020
Thallium	0.060	1.0	0.060	0.020	ug/L	U		1	6020
Vanadium	0.40	6.0	0.40	0.14	ug/L	U		1	6020
Zinc	2.3	20	6.0	2.0	ug/L	J		1	6020
Mercury	0.080	0.20	0.080	0.027	ug/L	U		1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

ICV Source: ICP ICVH_00069 Concentration Units: ug/L

CCV Source: ICP CCVH_00201

Analyte	ICVH 280-99890/6 12/13/2011 13:37				CCVH 280-99890/29 12/13/2011 14:49				CCVH 280-99890/43 12/13/2011 15:21			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	41300		40000	103	49300		50000	99	49500		50000	99
Iron	79100		80000	99	49900		50000	100	50100		50000	100
Sodium	42300		40000	106	245000		250000	98	247000		250000	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

ICV Source: ICP ICVL_00063 Concentration Units: ug/L

CCV Source: ICP CCVL_00212

Analyte	ICV 280-99890/7 12/13/2011 13:40				CCV 280-99890/30 12/13/2011 14:51				CCV 280-99890/44 12/13/2011 15:24			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	264		250	106	503		500	101	504		500	101
Boron	247		250	99	485		500	97	488		500	98
Calcium	2010		2000	101	4990		5000	100	4930		5000	99
Iron	254		250	102	2450		2500	98	2430		2500	97
Magnesium	9920		10000	99	19700		20000	98	19500		20000	98
Potassium	20300		20000	101	50200		50000	100	49500		50000	99
Sodium	2040		2000	102	4980		5000	100	4970		5000	99
Antimony	241		250	97	965		1000	97	970		1000	97
Arsenic	247		250	99	971		1000	97	979		1000	98
Barium	245		250	98	485		500	97	480		500	96
Beryllium	246		250	98	494		500	99	493		500	99
Cadmium	251		250	100	492		500	98	492		500	98
Chromium	249		250	100	498		500	100	498		500	100
Cobalt	251		250	100	498		500	100	499		500	100
Copper	248		250	99	489		500	98	488		500	98
Lead	254		250	102	976		1000	98	981		1000	98
Manganese	252		250	101	488		500	98	489		500	98
Molybdenum	242		250	97	494		500	99	496		500	99
Nickel	251		250	100	498		500	100	498		500	100
Selenium	492		500	98	964		1000	96	970		1000	97
Silver	246		250	98	481		500	96	481		500	96
Strontium	252		250	101	499		500	100	494		500	99
Thallium	515		500	103	990		1000	99	992		1000	99
Vanadium	243		250	97	485		500	97	490		500	98
Zinc	252		250	101	497		500	99	495		500	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

ICV Source: ICP ICVH_00070 Concentration Units: ug/L

CCV Source: ICP CCVH_00202

Analyte	ICVH 280-101718/6 12/28/2011 15:05				CCVH 280-101718/107 12/29/2011 00:51				CCVH 280-101718/119 12/29/2011 01:21			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	40200		40000	101	49600		50000	99	49700		50000	99
Iron	79200		80000	99	48500		50000	97	48700		50000	97
Sodium	40500		40000	101	254000		250000	102	257000		250000	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

ICV Source: ICP ICVL_00063 Concentration Units: ug/L

CCV Source: ICP CCVL_00215

Analyte	ICV 280-101718/7 12/28/2011 15:09				CCV 280-101718/108 12/29/2011 00:53				CCV 280-101718/120 12/29/2011 01:23			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	245		250	98	497		500	99	496		500	99
Boron	249		250	100	512		500	102	511		500	102
Calcium	1990		2000	100	5020		5000	100	5040		5000	101
Iron	255		250	102	2420		2500	97	2440		2500	97
Magnesium	9940		10000	99	19900		20000	99	20000		20000	100
Potassium	19600		20000	98	49800		50000	100	50000		50000	100
Sodium	2050		2000	103	5190		5000	104	5230		5000	105
Antimony	245		250	98	1000		1000	100	1000		1000	100
Arsenic	245		250	98	1010		1000	101	1010		1000	101
Barium	251		250	100	512		500	102	515		500	103
Beryllium	244		250	98	481		500	96	484		500	97
Cadmium	255		250	102	513		500	103	511		500	102
Chromium	252		250	101	514		500	103	516		500	103
Cobalt	256		250	102	516		500	103	517		500	103
Copper	253		250	101	500		500	100	500		500	100
Lead	258		250	103	1030		1000	103	1030		1000	103
Manganese	253		250	101	497		500	99	500		500	100
Molybdenum	245		250	98	506		500	101	506		500	101
Nickel	255		250	102	510		500	102	510		500	102
Selenium	485		500	97	1000		1000	100	998		1000	100
Silver	255		250	102	523		500	105	524		500	105
Thallium	526		500	105	1050		1000	105	1050		1000	105
Vanadium	249		250	99	516		500	103	518		500	104
Zinc	249		250	100	498		500	100	503		500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

ICV Source: MS ICV_00482 Concentration Units: ug/L

CCV Source: MS CCV_00483

Analyte	ICV 280-101714/4 12/28/2011 17:21				CCV 280-101714/16 12/28/2011 17:55				CCV 280-101714/90 12/29/2011 04:01			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	38.3		40.0	96	50.2		50.0	100	48.7		50.0	97
Arsenic	41.0		40.0	102	51.7		50.0	103	49.7		50.0	99
Barium	40.4		40.0	101	51.7		50.0	103	50.3		50.0	101
Beryllium	40.4		40.0	101	52.2		50.0	104	51.0		50.0	102
Cadmium	40.8		40.0	102	50.9		50.0	102	50.4		50.0	101
Chromium	41.0		40.0	102	52.5		50.0	105	50.8		50.0	102
Cobalt	41.5		40.0	104	52.9		50.0	106	50.9		50.0	102
Copper	40.3		40.0	101	52.5		50.0	105	49.9		50.0	100
Lead	40.7		40.0	102	51.2		50.0	102	49.7		50.0	99
Manganese	41.5		40.0	104	54.3		50.0	109	50.2		50.0	100
Molybdenum	39.6		40.0	99	51.7		50.0	103	49.3		50.0	99
Nickel	40.6		40.0	101	51.7		50.0	103	49.7		50.0	99
Selenium	39.8		40.0	100	52.8		50.0	106	49.4		50.0	99
Silver	42.9		40.0	107	51.4		50.0	103	50.4		50.0	101
Thallium	39.1		40.0	98	51.8		50.0	104	51.5		50.0	103
Vanadium	41.7		40.0	104	52.5		50.0	105	51.3		50.0	103
Zinc	40.2		40.0	101	51.6		50.0	103	49.5		50.0	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

ICV Source: MS ICV_00482 Concentration Units: ug/L

CCV Source: MS CCV_00483

Analyte	CCV 280-101714/103 12/29/2011 04:39				CCV 280-101714/115 12/29/2011 05:14							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	47.3		50.0	95	46.8		50.0	94				
Arsenic	48.8		50.0	98	48.8		50.0	98				
Barium	48.7		50.0	97	48.2		50.0	96				
Beryllium	48.8		50.0	98	47.8		50.0	96				
Cadmium	48.6		50.0	97	48.3		50.0	97				
Chromium	50.0		50.0	100	50.0		50.0	100				
Cobalt	50.2		50.0	100	49.7		50.0	99				
Copper	49.0		50.0	98	49.0		50.0	98				
Lead	48.7		50.0	97	47.3		50.0	95				
Manganese	50.1		50.0	100	49.6		50.0	99				
Molybdenum	47.9		50.0	96	48.0		50.0	96				
Nickel	49.2		50.0	98	48.8		50.0	98				
Selenium	48.7		50.0	97	49.7		50.0	99				
Silver	49.5		50.0	99	48.8		50.0	98				
Thallium	49.6		50.0	99	48.7		50.0	97				
Vanadium	50.3		50.0	101	50.8		50.0	102				
Zinc	48.5		50.0	97	48.1		50.0	96				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

ICV Source: Hg H20 ICV_00300 Concentration Units: ug/L

CCV Source: Hg H2O CCV_00293

Analyte	ICV 280-99898/8 12/13/2011 11:33				CCV 280-99898/66 12/13/2011 14:24				CCV 280-99898/79 12/13/2011 14:54			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.09		4.00	102	5.36		5.00	107	5.07		5.00	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

ICV Source: Hg H20 ICV_00300 Concentration Units: ug/L

CCV Source: Hg H2O CCV_00293

Analyte	CCV 280-99898/91 12/13/2011 15:22											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.03		5.00	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

ICV Source: Hg H20 ICV_00302 Concentration Units: ug/L

CCV Source: Hg H2O CCV_00294

Analyte	ICV 280-100260/8 12/15/2011 11:20				CCV 280-100260/17 12/15/2011 11:42				CCV 280-100260/30 12/15/2011 12:42			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.16		4.00	104	4.85		5.00	97	5.05		5.00	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

ICV Source: Hg H20 ICV_00302 Concentration Units: ug/L

CCV Source: Hg H2O CCV_00294

Analyte	CCV 280-100260/43 12/15/2011 13:15											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.98		5.00	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Method: 6010B Instrument ID: MT_025

Lab Sample ID: CRI 280-99890/12 Concentration Units: ug/L

CRQL Check Standard Source: ICP RL STD_00524

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	100	105		105	80-120
Calcium	200	203		101	80-120
Iron	30.0	31.3	J	104	80-120
Magnesium	200	206		103	80-120
Potassium	1000	1050	J	105	80-120
Sodium	1000	1030		103	80-120
Boron	100	99.3	J	99	80-120

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Method: 6010B Instrument ID: MT_026

Lab Sample ID: CRI 280-101718/12 Concentration Units: ug/L

CRQL Check Standard Source: ICP RL STD_00534

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	100	86.0	J	86	80-120
Calcium	200	202		101	80-120
Iron	30.0	34.0	J	113	80-120
Magnesium	200	205		103	80-120
Potassium	1000	1040	J	104	80-120
Sodium	1000	1050		105	80-120
Boron	100	99.4	J	99	50-150

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Method: 6020 Instrument ID: MT_024

Lab Sample ID: CRI 280-101714/7 Concentration Units: ug/L

CRQL Check Standard Source: MS RL STD_00493

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	1.00	1.02	J	102	80-120
Arsenic	1.00	1.02	J	102	80-120
Barium	1.00	1.03		103	80-120
Beryllium	1.00	0.975	J	98	80-120
Cadmium	1.00	0.973	J	97	80-120
Chromium	1.00	1.01	J	101	80-120
Cobalt	1.00	1.04		104	80-120
Copper	1.00	1.05	J	105	80-120
Lead	1.00	0.990	J	99	80-120
Manganese	1.00	1.03		103	80-120
Molybdenum	1.00	1.00	J	100	80-120
Nickel	1.00	1.03	J	103	80-120
Silver	1.00	0.991	J	99	80-120
Thallium	1.00	1.03		103	80-120
Vanadium	1.00	0.976	J	98	80-120
Zinc	10.0	10.4		104	80-120

Lab Sample ID: CRI 280-101714/15 Concentration Units: ug/L

CRQL Check Standard Source: MS ALTSe_00494

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Selenium	2.00	2.14	J	107	80-120

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 280-99890/11 12/13/2011 13:52		CCB 280-99890/31 12/13/2011 14:53		CCB 280-99890/45 12/13/2011 15:26			
		Found	C	Found	C	Found	C	Found	C
Aluminum	100	30	U	30	U	30	U		
Boron	100	7.0	U	7.0	U	7.0	U		
Calcium	200	80	U	80	U	80	U		
Iron	100	30	U	30	U	30	U		
Magnesium	200	25	U	25	U	25	U		
Potassium	3000	250	U	250	U	250	U		
Sodium	1000	250	U	250	U	250	U		
Antimony	10	8.0	U	8.0	U	8.0	U		
Arsenic	15	12	U	12	U	12	U		
Barium	10	1.5	U	1.5	U	1.5	U		
Beryllium	1.0	0.50	U	0.50	U	0.50	U		
Cadmium	5.0	0.80	U	0.80	U	0.80	U		
Chromium	10	1.5	U	1.5	U	1.5	U		
Cobalt	5.0	2.0	U	2.0	U	2.0	U		
Copper	15	3.5	U	3.5	U	3.5	U		
Lead	9.0	5.0	U	5.0	U	5.0	U		
Manganese	10	0.50	U	0.50	U	0.50	U		
Molybdenum	20	7.0	U	7.0	U	7.0	U		
Nickel	40	3.0	U	3.0	U	3.0	U		
Selenium	15	12	U	12	U	12	U		
Silver	10	2.0	U	2.0	U	2.0	U		
Strontium	10	0.50	U	0.50	U	0.50	U		
Thallium	15	12	U	12	U	12	U		
Vanadium	10	2.5	U	2.5	U	2.5	U		
Zinc	20	13	U	13	U	13	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 280-101718/11 12/28/2011 15:18		CCB 280-101718/109 12/29/2011 00:56		CCB 280-101718/121 12/29/2011 01:25			
		Found	C	Found	C	Found	C	Found	C
Aluminum	100	30	U	30	U	30	U		
Boron	100	7.0	U	7.0	U	7.0	U		
Calcium	200	80	U	80	U	80	U		
Iron	100	30	U	30	U	30	U		
Magnesium	200	25	U	25	U	25	U		
Potassium	3000	250	U	250	U	250	U		
Sodium	1000	250	U	133	J	143	J		
Antimony	10	4.22	J	3.99	J	4.19	J		
Arsenic	15	12	U	12	U	12	U		
Barium	10	1.5	U	1.5	U	1.5	U		
Beryllium	1.0	0.50	U	0.50	U	0.50	U		
Cadmium	5.0	0.80	U	0.80	U	0.80	U		
Chromium	10	1.5	U	1.5	U	1.5	U		
Cobalt	5.0	2.0	U	2.0	U	2.0	U		
Copper	15	3.5	U	3.5	U	3.5	U		
Lead	9.0	5.0	U	5.0	U	5.0	U		
Manganese	10	0.50	U	0.50	U	0.50	U		
Molybdenum	20	7.0	U	7.0	U	7.0	U		
Nickel	40	3.0	U	3.0	U	3.0	U		
Selenium	15	12	U	12	U	12	U		
Silver	10	2.0	U	2.0	U	2.0	U		
Thallium	15	12	U	12	U	12	U		
Vanadium	10	2.5	U	2.5	U	2.5	U		
Zinc	20	13	U	13	U	13	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 280-101714/6 12/28/2011 17:27		CCB 280-101714/17 12/28/2011 17:58		CCB 280-101714/91 12/29/2011 04:04		CCB 280-101714/104 12/29/2011 04:42	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.60	U	0.60	U	0.60	U	0.60	U
Arsenic	5.0	1.0	U	1.0	U	1.0	U	1.0	U
Barium	1.0	0.85	U	0.85	U	0.85	U	0.85	U
Beryllium	1.0	0.24	U	0.24	U	0.24	U	0.24	U
Cadmium	1.0	0.12	U	0.12	U	0.12	U	0.12	U
Chromium	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Cobalt	1.0	0.10	U	0.10	U	0.10	U	0.10	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Manganese	1.0	0.90	U	0.90	U	0.90	U	0.90	U
Molybdenum	2.0	0.40	U	0.40	U	0.40	U	0.40	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Selenium	5.0	2.0	U	2.0	U	2.0	U	2.0	U
Silver	5.0	0.10	U	0.10	U	0.10	U	0.10	U
Thallium	1.0	0.0370	J	0.0429	J	0.0361	J	0.10	U
Vanadium	5.0	1.0	U	1.0	U	1.0	U	1.0	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 280-101714/116 12/29/2011 05:16							
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.60	U						
Arsenic	5.0	1.0	U						
Barium	1.0	0.85	U						
Beryllium	1.0	0.24	U						
Cadmium	1.0	0.12	U						
Chromium	2.0	1.5	U						
Cobalt	1.0	0.10	U						
Copper	2.0	1.5	U						
Lead	1.0	0.50	U						
Manganese	1.0	0.90	U						
Molybdenum	2.0	0.40	U						
Nickel	2.0	0.90	U						
Selenium	5.0	2.0	U						
Silver	5.0	0.10	U						
Thallium	1.0	0.10	U						
Vanadium	5.0	1.0	U						
Zinc	10	6.0	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 280-99898/9 12/13/2011 11:35		CCB 280-99898/67 12/13/2011 14:26		CCB 280-99898/80 12/13/2011 14:56		CCB 280-99898/92 12/13/2011 15:24	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.080	U	0.080	U	0.080	U	0.080	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 280-100260/9 12/15/2011 11:24		CCB 280-100260/18 12/15/2011 11:45		CCB 280-100260/31 12/15/2011 12:44		CCB 280-100260/32 12/15/2011 12:50	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.080	U	0.080	U	0.080	U	0.080	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 280-100260/44 12/15/2011 13:17							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.080	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 280-99395/1-A

Instrument Code: MT_025 Batch No.: 99890

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	30	U		6010B
7440-70-2	Calcium	80	U		6010B
7439-89-6	Iron	30	U		6010B
7439-95-4	Magnesium	25	U		6010B
7440-09-7	Potassium	250	U		6010B
7440-23-5	Sodium	250	U		6010B
7440-42-8	Boron	4.0	U		6010B

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 280-101476/1-A

Instrument Code: MT_026 Batch No.: 101718

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	30	U		6010B
7440-70-2	Calcium	80	U		6010B
7439-89-6	Iron	30	U		6010B
7439-95-4	Magnesium	25	U		6010B
7440-09-7	Potassium	250	U		6010B
7440-23-5	Sodium	99.5	J		6010B
7440-42-8	Boron	7.0	U		6010B

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 280-101490/1-A

Instrument Code: MT_024 Batch No.: 101714

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.20	U		6020
7440-38-2	Arsenic	0.60	U		6020
7440-39-3	Barium	0.85	U		6020
7440-41-7	Beryllium	0.24	U		6020
7440-43-9	Cadmium	0.12	U	Q	6020
7440-47-3	Chromium	1.5	U		6020
7440-48-4	Cobalt	0.030	U		6020
7440-50-8	Copper	1.5	U		6020
7439-92-1	Lead	0.50	U		6020
7439-96-5	Manganese	0.90	U		6020
7439-98-7	Molybdenum	0.40	U		6020
7440-02-0	Nickel	0.90	U		6020
7782-49-2	Selenium	2.0	U		6020
7440-22-4	Silver	0.045	U		6020
7440-28-0	Thallium	0.0351	J		6020
7440-62-2	Vanadium	0.40	U		6020
7440-66-6	Zinc	6.0	U		6020

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 280-101478/1-A

Instrument Code: MT_024 Batch No.: 101714

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.20	U		6020
7440-38-2	Arsenic	0.60	U		6020
7440-39-3	Barium	0.85	U		6020
7440-41-7	Beryllium	0.24	U		6020
7440-43-9	Cadmium	0.12	U	Q	6020
7440-47-3	Chromium	1.5	U		6020
7440-48-4	Cobalt	0.030	U		6020
7440-50-8	Copper	1.5	U		6020
7439-92-1	Lead	0.50	U		6020
7439-96-5	Manganese	0.90	U		6020
7439-98-7	Molybdenum	0.40	U		6020
7440-02-0	Nickel	0.90	U		6020
7782-49-2	Selenium	2.0	U		6020
7440-22-4	Silver	0.045	U		6020
7440-28-0	Thallium	0.060	U		6020
7440-62-2	Vanadium	0.40	U		6020
7440-66-6	Zinc	6.0	U		6020

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 280-99589/1-A

Instrument Code: MT_033 Batch No.: 99898

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.080	U		7470A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 280-99940/1-A

Instrument Code: MT_034 Batch No.: 100260

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.080	U		7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICSA 280-99890/14 Instrument ID: MT_025

Lab File ID: 25A1121311.asc ICS Source: ICP ICSA_00048

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500000**	**512250**	**102**
Boron		**-3.30**	
Calcium	**500000**	**451790**	**90**
Iron	**200000**	**185210**	**93**
Magnesium	**500000**	**495520**	**99**
Potassium		**58.6**	
Sodium		**76.0**	
Antimony		*-4.82*	
Arsenic		*3.01*	
Barium		*0.440*	
Beryllium		*0.0100*	
Cadmium		*0.240*	
Chromium		*2.47*	
Cobalt		*-0.350*	
Copper		*3.62*	
Lead		*-0.110*	
Lithium		*6.21*	
Manganese		*1.82*	
Molybdenum		*-2.15*	
Nickel		*-1.94*	
Phosphorus		*-10.4*	
Selenium		*2.27*	
Silicon		*-9.71*	
Silver		*-0.460*	
SiO2		*-20.8*	
Strontium		*1.95*	
Thallium		*-0.620*	
Thorium		*-1.05*	
Tin		*-1.93*	
Titanium		*1.20*	
Vanadium		*3.48*	
Zinc		*2.07*	
Zirconium		*-6.37*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICSAB 280-99890/15 Instrument ID: MT_025

Lab File ID: 25A1121311.asc ICS Source: ICP ICSAB_00040

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Aluminum	**500000**	**504720**	**101**
Boron	**2000**	**1887**	**94**
Calcium	**500000**	**448720**	**90**
Iron	**200000**	**182230**	**91**
Magnesium	**500000**	**482530**	**97**
Potassium	**50000**	**50148**	**100**
Sodium	**50000**	**51762**	**104**
Antimony	*1000*	*958*	*96*
Arsenic	*2000*	*1965*	*98*
Barium	*500*	*475*	*95*
Beryllium	*500*	*465*	*93*
Cadmium	*1000*	*1010*	*101*
Chromium	*500*	*478*	*96*
Cobalt	*500*	*458*	*92*
Copper	*500*	*525*	*105*
Lead	*1000*	*903*	*90*
Lithium	*1000*	*1016*	*102*
Manganese	*500*	*479*	*96*
Molybdenum	*1000*	*925*	*93*
Nickel	*1000*	*900*	*90*
Phosphorus	*2000*	*1903*	*95*
Selenium	*5000*	*4752*	*95*
Silicon	*10000*	*9820*	*98*
Silver	*1000*	*1058*	*106*
SiO2	*21400*	*21014*	*98*
Strontium	*1000*	*963*	*96*
Thallium	*10000*	*8489*	*85*
Thorium	*2000*	*2054*	*103*
Tin	*10000*	*8899*	*89*
Titanium	*1000*	*963*	*96*
Vanadium	*500*	*480*	*96*
Zinc	*1000*	*932*	*93*
Zirconium	*1000*	*962*	*96*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICSA 280-101718/13 Instrument ID: MT_026

Lab File ID: 26b122811.asc ICS Source: ICP ICSA_00049

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500000**	**508670**	**102**
Boron		**0.230**	
Calcium	**500000**	**463670**	**93**
Iron	**200000**	**187060**	**94**
Magnesium	**500000**	**472610**	**95**
Potassium		**-5.08**	
Sodium		**138**	
Antimony		*-1.29*	
Arsenic		*-0.400*	
Barium		*0.280*	
Beryllium		*-0.100*	
Cadmium		*0.440*	
Chromium		*2.15*	
Cobalt		*-0.190*	
Copper		*3.82*	
Lead		*7.31*	
Lithium		*0.380*	
Manganese		*2.25*	
Molybdenum		*-0.830*	
Nickel		*4.23*	
Phosphorus		*4.00*	
Selenium		*-2.71*	
Silicon		*-0.370*	
Silver		*-0.650*	
Strontium		*2.17*	
Thallium		*0.600*	
Thorium		*-17.5*	
Tin		*1.01*	
Titanium		*-1.71*	
Vanadium		*3.05*	
Zinc		*5.36*	
Zirconium		*1.09*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICSAB 280-101718/14 Instrument ID: MT_026

Lab File ID: 26b122811.asc ICS Source: ICP ICSAB_00041

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Aluminum	**500000**	**506590**	**101**
Boron	**2000**	**1805**	**90**
Calcium	**500000**	**461740**	**92**
Iron	**200000**	**187120**	**94**
Magnesium	**500000**	**472670**	**95**
Potassium	**50000**	**52132**	**104**
Sodium	**50000**	**51360**	**103**
Antimony	*1000*	*955*	*96*
Arsenic	*2000*	*1908*	*95*
Barium	*500*	*498*	*100*
Beryllium	*500*	*472*	*94*
Cadmium	*1000*	*991*	*99*
Chromium	*500*	*479*	*96*
Cobalt	*500*	*451*	*90*
Copper	*500*	*515*	*103*
Lead	*1000*	*884*	*88*
Lithium	*1000*	*1032*	*103*
Manganese	*500*	*487*	*97*
Molybdenum	*1000*	*938*	*94*
Nickel	*1000*	*885*	*88*
Phosphorus	*2000*	*1850*	*93*
Selenium	*5000*	*4538*	*91*
Silicon	*10000*	*10210*	*102*
Silver	*1000*	*1047*	*105*
Strontium	*1000*	*987*	*99*
Thallium	*10000*	*8122*	*81*
Thorium	*2000*	*1961*	*98*
Tin	*10000*	*8725*	*87*
Titanium	*1000*	*975*	*98*
Vanadium	*500*	*499*	*100*
Zinc	*1000*	*935*	*94*
Zirconium	*1000*	*922*	*92*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICSA 280-101714/9 Instrument ID: MT_024

Lab File ID: 010ICSA.D ICS Source: MS ICSA_00481

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.297**	
Arsenic		**0.523**	
Barium		**0.180**	
Beryllium		**0.0119**	
Cadmium		**0.497**	
Chromium		**1.19**	
Cobalt		**0.0547**	
Copper		**0.354**	
Lead		**0.149**	
Manganese		**0.577**	
Molybdenum	**2000**	**1991**	**100**
Nickel		**0.869**	
Selenium		**0.105**	
Silver		**0.0591**	
Thallium		**0.0716**	
Vanadium		**0.168**	
Zinc		**2.33**	
Tin		*0.144*	
Uranium		*0.0081*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Lab Sample ID: ICSAB 280-101714/10 Instrument ID: MT_024

Lab File ID: 011ICSB.D ICS Source: MS ICSAB_00484

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Antimony	**100**	**106**	**106**
Arsenic	**100**	**105**	**105**
Barium	**100**	**105**	**105**
Beryllium	**100**	**103**	**103**
Cadmium	**100**	**97.9**	**98**
Chromium	**100**	**104**	**104**
Cobalt	**100**	**99.6**	**100**
Copper	**100**	**93.8**	**94**
Lead	**100**	**93.2**	**93**
Manganese	**100**	**103**	**103**
Molybdenum	**2100**	**2142**	**102**
Nickel	**100**	**95.3**	**95**
Selenium	**100**	**108**	**108**
Silver	**100**	**90.8**	**91**
Thallium	**100**	**94.3**	**94**
Vanadium	**100**	**106**	**106**
Zinc	**100**	**101**	**101**
Tin	*100*	*104*	*104*
Uranium	*100*	*98.2*	*98*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: B3VM0114AA MS Lab ID: 280-23566-1 MS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	1910		30	U	2000	96	80-120		6010B
Calcium	134000		89000		50000	91	80-120		6010B
Iron	960		30	U	1000	96	80-120		6010B
Magnesium	57100		9200		50000	96	80-120		6010B
Potassium	55100		3600		50000	103	80-120		6010B
Sodium	129000		80000		50000	98	80-120		6010B
Boron	1060		26	J	1000	103	87-113		6010B

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: 120711AE MS
Lab ID: 280-23566-2 MS
Lab Name: TestAmerica Denver
Job No.: 280-23566-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	38.8		0.20	U	40.0	97	85-115		6020
Arsenic	40.9		0.60	U	40.0	102	85-117		6020
Barium	40.7		0.85	U	40.0	102	85-118		6020
Beryllium	39.8		0.24	U	40.0	100	80-125		6020
Cadmium	40.6		0.12	U	40.0	101	85-115	Q	6020
Chromium	41.4		1.5	U	40.0	103	84-121		6020
Cobalt	41.4		0.030	U	40.0	103	85-120		6020
Copper	39.8		1.5	U	40.0	99	85-119		6020
Lead	39.7		0.50	U	40.0	99	85-118		6020
Manganese	41.2		0.90	U	40.0	103	85-117		6020
Molybdenum	39.7		0.40	U	40.0	99	85-119		6020
Nickel	40.5		0.90	U	40.0	101	85-119		6020
Selenium	41.6		2.0	U	40.0	104	77-122		6020
Silver	42.3		0.045	U	40.0	106	85-115		6020
Thallium	41.0		0.060	U	40.0	103	85-118		6020
Vanadium	41.7		0.40	U	40.0	104	85-120		6020
Zinc	42.1		2.3	J	40.0	100	83-122		6020

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: B3VM0114AA MSD
Lab ID: 280-23566-1 MSD
Lab Name: TestAmerica Denver
Job No.: 280-23566-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	1930		2000	96	80-120	1	20		6010B
Calcium	139000		50000	99	80-120	3	20		6010B
Iron	974		1000	97	80-120	1	20		6010B
Magnesium	57300		50000	96	80-120	0	20		6010B
Potassium	55800		50000	104	80-120	1	20		6010B
Sodium	133000		50000	107	80-120	3	20		6010B
Boron	1060		1000	104	87-113	0	20		6010B

SDR = Sample Duplicate Result

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

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: 120711AE MSD
Lab ID: 280-23566-2 MSD
Lab Name: TestAmerica Denver
Job No.: 280-23566-1
SDG No.:
Matrix: Water
Concentration Units: ug/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	38.0		40.0	95	85-115	2	20		6020
Arsenic	40.7		40.0	102	85-117	0	20		6020
Barium	39.2		40.0	98	85-118	4	20		6020
Beryllium	39.5		40.0	99	80-125	1	20		6020
Cadmium	39.3		40.0	98	85-115	3	20	Q	6020
Chromium	41.4		40.0	103	84-121	0	20		6020
Cobalt	41.6		40.0	104	85-120	0	20		6020
Copper	39.7		40.0	99	85-119	0	20		6020
Lead	40.0		40.0	100	85-118	1	20		6020
Manganese	40.9		40.0	102	85-117	1	20		6020
Molybdenum	39.7		40.0	99	85-119	0	20		6020
Nickel	40.5		40.0	101	85-119	0	20		6020
Selenium	41.2		40.0	103	77-122	1	20		6020
Silver	41.3		40.0	103	85-115	2	20		6020
Thallium	41.3		40.0	103	85-118	1	20		6020
Vanadium	41.8		40.0	105	85-120	0	20		6020
Zinc	42.0		40.0	99	83-122	0	20		6020

SDR = Sample Duplicate Result

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

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: B3VM0114AA PDS Lab ID: 280-23566-1 PDS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Matrix: Water Concentration Units: ug/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	967		30	U	1000	97	75-125		6010B
Calcium	106000		89000		20000	88	75-125		6010B
Iron	945		30	U	1000	94	75-125		6010B
Magnesium	28000		9200		20000	94	75-125		6010B
Potassium	23600		3600		20000	100	75-125		6010B
Sodium	98700		80000		20000	95	75-125		6010B
Boron	128		26	J	100	102	75-125		6010B

SSR = Spiked Sample Result

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

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: 120711AE PDS | Lab ID: 280-23566-2 PDS

Lab Name: TestAmerica Denver | Job No.: 280-23566-1

SDG No.:

Matrix: Water | Concentration Units: ug/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	184		0.20	U	200	92	75-125		6020
Arsenic	192		0.60	U	200	96	75-125		6020
Barium	193		0.85	U	200	97	75-125		6020
Beryllium	194		0.24	U	200	97	75-125		6020
Cadmium	190		0.12	U	200	95	75-125	Q	6020
Chromium	184		1.5	U	200	92	75-125		6020
Cobalt	184		0.030	U	200	92	75-125		6020
Copper	185		1.5	U	200	92	75-125		6020
Lead	186		0.50	U	200	93	75-125		6020
Manganese	184		0.90	U	200	92	75-125		6020
Molybdenum	191		0.40	U	200	95	75-125		6020
Nickel	196		0.90	U	200	98	75-125		6020
Selenium	192		2.0	U	200	96	75-125		6020
Silver	49.0		0.045	U	50.0	98	75-125		6020
Thallium	186		0.060	U	200	93	75-125		6020
Vanadium	184		0.40	U	200	92	75-125		6020
Zinc	190		2.3	J	200	94	75-125		6020

SSR = Spiked Sample Result

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

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-99395/2-A

Lab Name: TestAmerica Denver Job No.: 280-23566-1

Sample Matrix: Water LCS Source: ICP SPK 3A_00038

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	2000	1970		98	80	120		6010B
Calcium	50000	49100		98	80	120		6010B
Iron	1000	984		98	80	120		6010B
Magnesium	50000	49400		99	80	120		6010B
Potassium	50000	50700		101	80	120		6010B
Sodium	50000	52700		105	80	120		6010B
Boron	1000	990		99	86	110		6010B

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 280-101476/2-A

Lab Name: TestAmerica Denver Job No.: 280-23566-1

Sample Matrix: Water LCS Source: ICP SPK 3A_00040

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	2000	1950		98	80	120		6010B
Calcium	50000	49500		99	80	120		6010B
Iron	1000	971		97	80	120		6010B
Magnesium	50000	49400		99	80	120		6010B
Potassium	50000	51200		102	80	120		6010B
Sodium	50000	52800		106	80	120		6010B
Boron	1000	1040		104	86	110		6010B

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 280-101478/2-A

Lab Name: TestAmerica Denver Job No.: 280-23566-1

Sample Matrix: Water LCS Source: MS CALSTD-2_00058

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	40.0	37.7		94	85	115		6020
Arsenic	40.0	40.2		100	85	117		6020
Barium	40.0	39.4		98	85	118		6020
Beryllium	40.0	40.1		100	80	125		6020
Cadmium	40.0	39.2		98	85	115	Q	6020
Chromium	40.0	40.3		101	84	121		6020
Cobalt	40.0	40.0		100	85	120		6020
Copper	40.0	38.8		97	85	119		6020
Lead	40.0	38.8		97	85	118		6020
Manganese	40.0	39.3		98	85	117		6020
Molybdenum	40.0	39.0		98	85	119		6020
Nickel	40.0	39.2		98	85	119		6020
Selenium	40.0	40.1		100	77	122		6020
Silver	40.0	41.2		103	85	115		6020
Thallium	40.0	39.8		100	85	118		6020
Vanadium	40.0	40.4		101	85	120		6020
Zinc	40.0	40.3		101	83	122		6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-101490/2-A

Lab Name: TestAmerica Denver Job No.: 280-23566-1

Sample Matrix: Water LCS Source: MS CALSTD-2_00058

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	40.0	38.3		96	85	115		6020
Arsenic	40.0	38.9		97	85	117		6020
Barium	40.0	40.5		101	85	118		6020
Beryllium	40.0	39.0		97	80	125		6020
Cadmium	40.0	39.9		100	85	115	Q	6020
Chromium	40.0	41.3		103	84	121		6020
Cobalt	40.0	41.3		103	85	120		6020
Copper	40.0	39.2		98	85	119		6020
Lead	40.0	40.4		101	85	118		6020
Manganese	40.0	40.8		102	85	117		6020
Molybdenum	40.0	40.4		101	85	119		6020
Nickel	40.0	40.4		101	85	119		6020
Selenium	40.0	38.9		97	77	122		6020
Silver	40.0	42.6		107	85	115		6020
Thallium	40.0	41.6		104	85	118		6020
Vanadium	40.0	41.9		105	85	120		6020
Zinc	40.0	38.9		97	83	122		6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-99589/2-A

Lab Name: TestAmerica Denver Job No.: 280-23566-1

Sample Matrix: Water LCS Source: Hg Daily Spk_00437

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	4.77		95	80	120		7470A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-99940/2-A

Lab Name: TestAmerica Denver Job No.: 280-23566-1

Sample Matrix: Water LCS Source: Hg Daily Spk_00439

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	4.83		97	80	120		7470A

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 280-23566-1

SDG No:

Lab Name: TestAmerica Denver Job No: 280-23566-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	30	U	150	U	NC		6010B
Calcium	89000		93200		5.0	D	6010B
Iron	30	U	150	U	NC		6010B
Magnesium	9200		9850		7.0	D	6010B
Potassium	3600		3830	J	NC	D	6010B
Sodium	80000		85400		7.2	D	6010B
Boron	26	J	32.6	J	NC	D	6010B

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 280-23566-2

SDG No:

Lab Name: TestAmerica Denver Job No: 280-23566-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.20	U	1.0	U	NC		6020
Arsenic	0.60	U	3.0	U	NC		6020
Barium	0.85	U	4.3	U	NC		6020
Beryllium	0.24	U	1.2	U	NC		6020
Cadmium	0.12	U	0.60	U	NC	Q	6020
Chromium	1.5	U	7.5	U	NC		6020
Cobalt	0.030	U	0.15	U	NC		6020
Copper	1.5	U	7.5	U	NC		6020
Lead	0.50	U	2.5	U	NC		6020
Manganese	0.90	U	4.5	U	NC		6020
Molybdenum	0.40	U	2.0	U	NC		6020
Nickel	0.90	U	4.5	U	NC		6020
Selenium	2.0	U	10	U	NC		6020
Silver	0.045	U	0.23	U	NC		6020
Thallium	0.060	U	0.30	U	NC		6020
Vanadium	0.40	U	2.0	U	NC		6020
Zinc	2.3	J	30	U	NC		6020

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG Number:

Matrix: Water Instrument ID: MT_025

Method: 6010B DL Date: 11/30/2009 00:00

Prep Method: 3010A

Analyte	Wavelength/ Mass	LOQ (ug/L)	DL (ug/L)
Aluminum	167	300	18
Boron	208.9	100	4.37
Calcium	317.9	1000	34.5
Iron	259.9	100	22
Magnesium	279	500	10.7
Potassium	766.4	3000	237
Sodium	589.5	5000	91.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG Number:

Matrix: Water Instrument ID: MT_025

Method: 6010B XMDL Date: 02/23/2011 08:43

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum		100	18
Boron		100	4.37
Calcium		200	34.5
Iron		100	22
Magnesium		200	10.7
Potassium		3000	237
Sodium		1000	91.6

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG Number:

Matrix: Water Instrument ID: MT_026

Method: 6010B DL Date: 01/07/2010 00:00

Prep Method: 3005A

Analyte	Wavelength/ Mass	LOQ (ug/L)	DL (ug/L)
Aluminum	167	300	18
Boron	208.9	100	4.37
Calcium	317.9	1000	34.5
Iron	259.9	100	22
Magnesium	279	500	10.7
Potassium	766.4	3000	237
Sodium	589.5	5000	91.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG Number:

Matrix: Water Instrument ID: MT_026

Method: 6010B XMDL Date: 02/23/2011 08:43

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum		100	18
Boron		100	4.37
Calcium		200	34.5
Iron		100	22
Magnesium		200	10.7
Potassium		3000	237
Sodium		1000	91.6

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG Number:

Matrix: Water Instrument ID: MT_024

Method: 6020 DL Date: 11/30/2009 00:00

Prep Method: 3020A

Analyte	Wavelength/ Mass	LOQ (ug/L)	DL (ug/L)
Antimony	121	6	0.07
Arsenic	75	5	0.21
Barium	137	3	0.29
Beryllium	9	1	0.08
Cadmium	111	1	0.04
Chromium	52	10	0.5
Cobalt	59	1	0.01
Copper	63	2	0.56
Lead	208	3	0.18
Manganese	55	3.5	0.31
Molybdenum	95	2	0.14
Nickel	60	3	0.3
Selenium	78	5	0.7
Silver	107	5	0.015
Thallium	205	1	0.02
Vanadium	51	6	0.14
Zinc	66	20	2

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG Number:

Matrix: Water Instrument ID: MT_024

Method: 6020 XMDL Date: 11/22/2011 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony		2	0.2
Arsenic		5	0.33
Barium		1	0.29
Beryllium		1	0.08
Cadmium		1	0.04
Chromium		2	0.5
Cobalt		1	0.054
Copper		2	0.56
Lead		1	0.18
Manganese		1	0.31
Molybdenum		2	0.14
Nickel		2	0.3
Selenium		5	0.7
Silver		5	0.033
Thallium		1	0.033
Vanadium		5	0.33
Zinc		10	2

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG Number:

Matrix: Water Instrument ID: MT_024

Method: 6020 DL Date: 01/07/2010 00:00

Prep Method: 3005A

Analyte	Wavelength/ Mass	LOQ (ug/L)	DL (ug/L)
Antimony	121	6	0.07
Arsenic	75	5	0.21
Barium	137	3	0.29
Beryllium	9	1	0.08
Cadmium	111	1	0.04
Chromium	52	10	0.5
Cobalt	59	1	0.01
Copper	63	2	0.56
Lead	208	3	0.18
Manganese	55	3.5	0.31
Molybdenum	95	2	0.14
Nickel	60	3	0.3
Selenium	78	5	0.7
Silver	107	5	0.015
Thallium	205	1	0.02
Vanadium	51	6	0.14
Zinc	66	20	2

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG Number:

Matrix: Water Instrument ID: MT_024

Method: 6020 XMDL Date: 11/22/2011 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony		2	0.2
Arsenic		5	0.33
Barium		1	0.29
Beryllium		1	0.08
Cadmium		1	0.04
Chromium		2	0.5
Cobalt		1	0.054
Copper		2	0.56
Lead		1	0.18
Manganese		1	0.31
Molybdenum		2	0.14
Nickel		2	0.3
Selenium		5	0.7
Silver		5	0.033
Thallium		1	0.033
Vanadium		5	0.33
Zinc		10	2

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG Number:

Matrix: Water Instrument ID: MT_034

Method: 7470A DL Date: 11/30/2009 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	LOQ (ug/L)	DL (ug/L)
Mercury	253.7	0.2	0.027

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG Number:

Matrix: Water Instrument ID: MT_034

Method: 7470A XMDL Date: 11/30/2010 11:23

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.027

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG Number:

Matrix: Water Instrument ID: MT_033

Method: 7470A DL Date: 01/07/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	LOQ (ug/L)	DL (ug/L)
Mercury	253.7	0.2	0.027

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG Number:

Matrix: Water Instrument ID: MT_033

Method: 7470A XMDL Date: 11/30/2010 11:23

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.027

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 08/01/2011

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K
Aluminum	167.079													0.002657	
Aluminum	309.271														
Antimony	206.833		0.000023									0.004302		0.000030	
Arsenic	189.042											-0.015730			
Barium	455.403														
Beryllium	313.042														
Bismuth	223.061											0.002290			
Boron	208.959														
Cadmium	228.802			0.003546							-0.004118				
Calcium	317.933														
Chromium	205.552						-0.002169								
Cobalt	228.616														
Copper	324.754														
Iron	259.940														
Iron	271.441										0.070287				
Lead	220.353		-0.000071										0.000146	0.000023	
Lithium	670.784								0.000009						
Magnesium	279.079														
Manganese	257.610		0.000001												
Molybdenum	202.030														
Nickel	231.604														
Palladium															
Phosphorus	178.284														
Potassium	766.490														
Selenium	196.090		0.000018											0.000009	
Silicon	288.158											-0.002611			
Silver	328.068														
Sodium	589.592														
Sodium	818.326														
Strontium	407.771								0.000009						

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 08/01/2011

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K
Sulfur	182.034		-0.000350												
Thallium	190.856										0.003109	0.000241			
Thorium	283.730											0.000240		0.000842	
Tin	189.989														
Titanium	334.904											0.000169			
Uranium	370.152				0.001088				-0.000107			-0.001869		-0.000602	
Vanadium	292.402											-0.007855			
Zinc	206.200		0.000012									-0.000710			
Zirconium	339.198														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 08/01/2011

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Se	Si	Sn	Sr
Aluminum	309.271		0.001655												
Aluminum	167.079														
Antimony	206.833				-0.000868										
Arsenic	189.042				0.001045										
Barium	455.403														
Beryllium	313.042														
Bismuth	223.061														
Boron	208.959				0.053600										
Cadmium	228.802														
Calcium	317.933														
Chromium	205.552						0.000151								
Cobalt	228.616			0.000923	-0.000837		0.000134								
Copper	324.754				0.000500										
Iron	259.940														
Iron	271.441		-0.000894												
Lead	220.353				-0.001805		-0.000117						0.000046		
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Palladium															
Phosphorus	178.284				-0.004187										
Potassium	766.490														
Selenium	196.090			0.000750											
Silicon	288.158				-0.005077										
Silver	328.068				-0.000441										
Sodium	589.592														
Sodium	818.326														
Strontium	407.771														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 08/01/2011

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Se	Si	Sn	Sr
Sulfur	182.034			0.011200	-0.001874										
Thallium	190.856			0.001027											
Thorium	283.730				0.000660		0.000237								
Tin	189.989														
Titanium	334.904		0.000003		0.000571										
Uranium	370.152														
Vanadium	292.402			-0.000497											
Zinc	206.200														
Zirconium	339.198														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 08/01/2011

Analyte	Wave Length	Th	Ti	Tl	U	V	Zn	Zr							
Aluminum	167.079														
Aluminum	309.271														
Antimony	206.833				-0.001277			-0.001223							
Arsenic	189.042														
Barium	455.403							0.000702							
Beryllium	313.042		-0.000204			0.000260									
Bismuth	223.061		-0.002704												
Boron	208.959														
Cadmium	228.802														
Calcium	317.933	-0.006953			0.000135										
Chromium	205.552	0.000058			-0.000008										
Cobalt	228.616		0.001698												
Copper	324.754	0.004468	-0.000326		0.001488	-0.000656		0.000024							
Iron	259.940														
Iron	271.441					-0.209500									
Lead	220.353		-0.000719		0.000210			-0.000476							
Lithium	670.784														
Magnesium	279.079	-0.033610			-0.009182										
Manganese	257.610				0.000118										
Molybdenum	202.030														
Nickel	231.604														
Palladium															
Phosphorus	178.284														
Potassium	766.490														
Selenium	196.090	-0.000640			-0.002375										
Silicon	288.158														
Silver	328.068	-0.000774			0.001314			0.004418							
Sodium	589.592														
Sodium	818.326														
Strontium	407.771														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG No.:

ICP-AES Instrument ID: MT_025 Date: 08/01/2011

Analyte	Wave Length	Th	Ti	Tl	U	V	Zn	Zr							
Sulfur	182.034					0.001800									
Thallium	190.856		-0.000398			0.001304									
Thorium	283.730				0.022417			0.006585							
Tin	189.989		-0.001001												
Titanium	334.904	0.004961			-0.000536										
Uranium	370.152		0.005239												
Vanadium	292.402	0.001541	0.000574		-0.000598										
Zinc	206.200														
Zirconium	339.198	0.052601													

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG No.:

ICP-AES Instrument ID: MT_026 Date: 07/26/2011

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K
Aluminum	167.079													0.001855	
Aluminum	309.271														
Antimony	206.833		0.000001						-0.000008			0.015485		0.000003	
Arsenic	189.042		-0.000022									0.000181			
Barium	455.403														
Beryllium	313.042														
Bismuth	223.061										-0.002850			-0.000021	
Boron	208.959														
Cadmium	228.802			0.010742							0.000016				
Calcium	317.933														
Chromium	205.552						-0.002780								
Cobalt	228.616					-0.000228									
Copper	324.754														
Iron	259.940														
Iron	271.441										0.109000				
Lead	220.353		-0.000062										0.000046	0.000036	
Lithium	670.784								0.000032						
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Phosphorus	178.284														
Potassium	766.490														
Selenium	196.090								-0.000009					0.000004	
Silicon	288.158											0.000027			
Silver	328.068														
Sodium	589.592														
Sodium	818.326														
Strontium	407.771								0.000010						
Sulfur	182.034														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG No.:

ICP-AES Instrument ID: MT_026 Date: 07/26/2011

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K
Thallium	190.856										0.006725	0.000241			
Thorium	283.730		-0.000012							-0.000171		-0.000233		0.000839	
Tin	189.989														
Titanium	334.904											0.000169			
Uranium	370.152				0.001355							-0.002090		-0.000217	
Vanadium	292.402											-0.007969			
Zinc	206.200											-0.001730			
Zirconium	339.198													-0.000026	

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG No.:

ICP-AES Instrument ID: MT_026 Date: 07/26/2011

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Si	Sn	Sr	Th
Aluminum	309.271		0.003939												
Aluminum	167.079														
Antimony	206.833				-0.007803										
Arsenic	189.042				-0.000564										
Barium	455.403														
Beryllium	313.042														
Bismuth	223.061														-0.004222
Boron	208.959				0.053817										
Cadmium	228.802														
Calcium	317.933														-0.001874
Chromium	205.552				0.000100		0.00046								
Cobalt	228.616				-0.001154		0.000049								
Copper	324.754														0.002944
Iron	271.441														
Iron	259.940														
Lead	220.353		0.000001		-0.001630		0.000200				0.000013	0.000074			
Lithium	670.784		0.000008												
Magnesium	279.079														-0.028160
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Phosphorus	178.284														
Potassium	766.490														
Selenium	196.090			0.000468											-0.000475
Silicon	288.158				-0.005890								0.001650		
Silver	328.068				-0.000308										-0.000491
Sodium	589.592														
Sodium	818.326														
Strontium	407.771														
Sulfur	182.034			0.005840	0.000664										

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG No.:

ICP-AES Instrument ID: MT_026 Date: 07/26/2011

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Si	Sn	Sr	Th
Thallium	190.856			0.000720	-0.000286										
Thorium	283.730		-0.000002		0.000415		0.000139								
Tin	189.989														
Titanium	334.904		0.000009		0.000999										0.008581
Uranium	370.152				0.001220										-0.004100
Vanadium	292.402			-0.006557											0.001332
Zinc	206.200														
Zirconium	339.198				0.000494							0.000018			0.066165

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG No.:

ICP-AES Instrument ID: MT_026 Date: 07/26/2011

Analyte	Wave Length	Ti	Tl	U	V	Zn	Zr								
Aluminum	309.271														
Aluminum	167.079														
Antimony	206.833			-0.001080			-0.001150								
Arsenic	189.042														
Barium	455.403						0.001353								
Beryllium	313.042	-0.000233													
Bismuth	223.061	-0.003399		-0.000669											
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	205.552			0.000035											
Cobalt	228.616	0.001858													
Copper	324.754	-0.000535					-0.002353								
Iron	259.940														
Iron	271.441				-0.456000		-0.128890								
Lead	220.353	-0.000765		0.000568											
Lithium	670.784														
Magnesium	279.079			-0.010626											
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Phosphorus	178.284														
Potassium	766.490														
Selenium	196.090			-0.001609											
Silicon	288.158														
Silver	328.068			0.001560			0.002740								
Sodium	589.592														
Sodium	818.326														
Strontium	407.771														
Sulfur	182.034														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Denver Job Number: 280-23566-1

SDG No.:

ICP-AES Instrument ID: MT_026 Date: 07/26/2011

Analyte	Wave Length	Ti	Tl	U	V	Zn	Zr								
Thallium	190.856	-0.000928		-0.000656	-0.002258										
Thorium	283.730			0.022130			0.022520								
Tin	189.989	-0.000896													
Titanium	334.904			-0.000660											
Uranium	370.152	0.006150													
Vanadium	292.402	0.000957		-0.000553											
Zinc	206.200														
Zirconium	339.198														

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Denver Job No: 280-23566-1

SDG No.:

Instrument ID: MT_025 Date: 11/02/2011 00:00

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum		1000	6010B
Boron		100	6010B
Calcium		1000	6010B
Iron		2000	6010B
Magnesium		1500	6010B
Potassium		500	6010B
Sodium		10000	6010B

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Denver Job No: 280-23566-1

SDG No.:

Instrument ID: MT_026 Date: 11/02/2011 00:00

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum		1000	6010B
Calcium		2000	6010B
Iron		2000	6010B
Magnesium		2000	6010B
Potassium		500	6010B
Sodium		10000	6010B
Boron		100	6010B

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Denver Job No: 280-23566-1

SDG No.:

Instrument ID: MT_024 Date: 10/10/2011 16:29

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Antimony		4000	6020
Arsenic		4000	6020
Barium		4000	6020
Beryllium		4000	6020
Cadmium		4000	6020
Chromium		4000	6020
Cobalt		4000	6020
Copper		4000	6020
Lead		4000	6020
Manganese		20000	6020
Molybdenum		4000	6020
Nickel		4000	6020
Selenium		4000	6020
Silver		4000	6020
Thallium		4000	6020
Vanadium		4000	6020
Zinc		4000	6020

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 280-99395/1-A	12/12/2011 14:00	99395		50	50
LCS 280-99395/2-A	12/12/2011 14:00	99395		50	50
280-23566-1	12/12/2011 14:00	99395		50	50
280-23566-2	12/12/2011 14:00	99395		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 280-101476/1-A	12/28/2011 14:00	101476		50	50
LCS 280-101476/2-A	12/28/2011 14:00	101476		50	50
280-23566-1	12/28/2011 14:00	101476		50	50
280-23566-1 MS	12/28/2011 14:00	101476		50	50
280-23566-1 MSD	12/28/2011 14:00	101476		50	50
280-23566-2	12/28/2011 14:00	101476		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 280-101478/1-A	12/28/2011 14:00	101478		50	50
LCS 280-101478/2-A	12/28/2011 14:00	101478		50	50
280-23566-1	12/28/2011 14:00	101478		50	50
280-23566-2	12/28/2011 14:00	101478		50	50
280-23566-2 MS	12/28/2011 14:00	101478		50	50
280-23566-2 MSD	12/28/2011 14:00	101478		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Prep Method: 3020A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 280-101490/1-A	12/28/2011 14:00	101490		50	50
LCS 280-101490/2-A	12/28/2011 14:00	101490		50	50
280-23566-1	12/28/2011 14:00	101490		50	50
280-23566-2	12/28/2011 14:00	101490		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 280-99589/1-A	12/12/2011 11:45	99589		30	30
LCS 280-99589/2-A	12/12/2011 11:45	99589		30	30
280-23566-1	12/12/2011 11:45	99589		30	30
280-23566-2	12/12/2011 11:45	99589		30	30

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 280-99940/1-A	12/14/2011 14:20	99940		30	30
LCS 280-99940/2-A	12/14/2011 14:20	99940		30	30
280-23566-1	12/14/2011 14:20	99940		30	30
280-23566-2	12/14/2011 14:20	99940		30	30

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_025 Method: 6010B

Start Date: 12/13/2011 13:23 End Date: 12/13/2011 15:28

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	B	Ca	Fe	K	Mg	Na													
ICIS 280-99890/1	1		13:23	X	X	X	X	X	X	X													
IC 280-99890/2			13:25	X	X	X	X	X	X	X													
IC 280-99890/3			13:28	X	X	X	X	X	X	X													
ZZZZZZ			13:30																				
ZZZZZZ			13:32																				
ICVH 280-99890/6	1		13:37	X	X	X	X	X	X	X													
ICV 280-99890/7	1		13:40	X	X	X	X	X	X	X													
ZZZZZZ			13:45																				
CCVH 280-99890/9			13:47																				
CCV 280-99890/10			13:50																				
ICB 280-99890/11	1		13:52	X	X	X	X	X	X	X													
CRI 280-99890/12	1		13:54	X	X	X	X	X	X	X													
CRI 280-99890/13			14:10																				
ICSA 280-99890/14	1		14:13	X	X	X	X	X	X	X													
ICSAB 280-99890/15	1		14:16	X	X	X	X	X	X	X													
LRA 280-99890/16			14:18																				
CCVH 280-99890/17			14:21																				
CCV 280-99890/18			14:23																				
CCB 280-99890/19			14:25																				
ZZZZZZ			14:28																				
ZZZZZZ			14:30																				
ZZZZZZ			14:32																				
ZZZZZZ			14:35																				
ZZZZZZ			14:37																				
ZZZZZZ			14:40																				
ZZZZZZ			14:42																				
ZZZZZZ			14:44																				
ZZZZZZ			14:47																				
CCVH 280-99890/29	1		14:49	X	X	X	X	X	X	X													
CCV 280-99890/30	1		14:51	X	X	X	X	X	X	X													
CCB 280-99890/31	1		14:53	X	X	X	X	X	X	X													
ZZZZZZ			14:56																				
MB 280-99395/1-A	1	T	14:58	X	X	X	X	X	X	X													
LCS 280-99395/2-A	1	T	15:01	X	X	X	X	X	X	X													
ZZZZZZ			15:03																				
ZZZZZZ			15:05																				
ZZZZZZ			15:08																				
ZZZZZZ			15:10																				
ZZZZZZ			15:12																				
ZZZZZZ			15:14																				
280-23566-1	1	T	15:16	X	X	X	X	X	X	X													
280-23566-2	1	T	15:19	X	X	X	X	X	X	X													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_025 Method: 6010B

Start Date: 12/13/2011 13:23 End Date: 12/13/2011 15:28

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	B	Ca	Fe	K	Mg	Na													
CCVH 280-99890/43	1		15:21	X	X	X	X	X	X	X													
CCV 280-99890/44	1		15:24	X	X	X	X	X	X	X													
CCB 280-99890/45	1		15:26	X	X	X	X	X	X	X													
ZZZZZZ			15:28																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_026 Method: 6010B

Start Date: 12/28/2011 14:53 End Date: 12/29/2011 02:28

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	B	Ca	Fe	K	Mg	Na													
ICIS 280-101718/1	1		14:53	X	X	X	X	X	X	X													
IC 280-101718/2			14:56	X	X	X	X	X	X	X													
IC 280-101718/3			14:58	X	X	X	X	X	X	X													
ZZZZZZ			15:00																				
ZZZZZZ			15:03																				
ICVH 280-101718/6	1		15:05	X	X	X	X	X	X	X													
ICV 280-101718/7	1		15:09	X	X	X	X	X	X	X													
ICVL 280-101718/8			15:11																				
CCVH 280-101718/9			15:14																				
CCV 280-101718/10			15:16																				
ICB 280-101718/11	1		15:18	X	X	X	X	X	X	X													
CRI 280-101718/12	1		15:21	X	X	X	X	X	X	X													
ICSA 280-101718/13	1		15:25	X	X	X	X	X	X	X													
ICSAB 280-101718/14	1		15:28	X	X	X	X	X	X	X													
LRA 280-101718/15			15:31																				
CCVH 280-101718/16			15:34																				
CCV 280-101718/17			15:36																				
CCB 280-101718/18			15:38																				
ZZZZZZ			15:41																				
CCVH 280-101718/20			21:15																				
CCV 280-101718/21			21:18																				
CCB 280-101718/22			21:20																				
ZZZZZZ			21:23																				
ZZZZZZ			21:25																				
ZZZZZZ			21:28																				
ZZZZZZ			21:30																				
ZZZZZZ			21:33																				
ZZZZZZ			21:35																				
ZZZZZZ			21:37																				
CCVH 280-101718/30			21:40																				
CCV 280-101718/31			21:42																				
CCB 280-101718/32			21:44																				
ZZZZZZ			21:47																				
ZZZZZZ			21:50																				
ZZZZZZ			21:52																				
ZZZZZZ			21:55																				
ZZZZZZ			21:57																				
ZZZZZZ			22:00																				
CCVH 280-101718/39			22:03																				
CCV 280-101718/40			22:05																				
CCB 280-101718/41			22:08																				
CCVL 280-101718/42			22:10																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_026 Method: 6010B

Start Date: 12/28/2011 14:53 End Date: 12/29/2011 02:28

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	B	Ca	Fe	K	Mg	Na													
ZZZZZZ			22:13																				
ZZZZZZ			22:15																				
ZZZZZZ			22:18																				
ZZZZZZ			22:20																				
ZZZZZZ			22:23																				
ZZZZZZ			22:25																				
ZZZZZZ			22:27																				
ZZZZZZ			22:30																				
ZZZZZZ			22:32																				
CCVH 280-101718/52			22:34																				
CCV 280-101718/53			22:37																				
CCB 280-101718/54			22:39																				
CCVL 280-101718/55			22:42																				
ZZZZZZ			22:44																				
ZZZZZZ			22:47																				
ZZZZZZ			22:49																				
ZZZZZZ			22:52																				
ZZZZZZ			22:54																				
ZZZZZZ			22:57																				
CCVH 280-101718/62			22:59																				
CCV 280-101718/63			23:02																				
CCB 280-101718/64			23:04																				
CCVL 280-101718/65			23:07																				
ZZZZZZ			23:09																				
ZZZZZZ			23:12																				
ZZZZZZ			23:14																				
ZZZZZZ			23:16																				
ZZZZZZ			23:19																				
ZZZZZZ			23:21																				
CCVH 280-101718/72			23:24																				
CCV 280-101718/73			23:26																				
CCB 280-101718/74			23:29																				
CCVL 280-101718/75			23:31																				
ZZZZZZ			23:34																				
ZZZZZZ			23:36																				
ZZZZZZ			23:39																				
ZZZZZZ			23:41																				
ZZZZZZ			23:43																				
ZZZZZZ			23:46																				
ZZZZZZ			23:49																				
ZZZZZZ			23:51																				
ZZZZZZ			23:53																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_026 Method: 6010B

Start Date: 12/28/2011 14:53 End Date: 12/29/2011 02:28

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	B	Ca	Fe	K	Mg	Na													
CCVH 280-101718/85			23:55																				
CCV 280-101718/86			23:58																				
CCB 280-101718/87			00:00																				
CCVL 280-101718/88			00:03																				
ZZZZZZ			00:05																				
ZZZZZZ			00:08																				
ZZZZZZ			00:10																				
ZZZZZZ			00:13																				
ZZZZZZ			00:15																				
ZZZZZZ			00:18																				
ZZZZZZ			00:20																				
ZZZZZZ			00:23																				
CCVH 280-101718/97			00:26																				
CCV 280-101718/98			00:28																				
CCB 280-101718/99			00:30																				
CCVL 280-101718/100			00:33																				
ZZZZZZ			00:36																				
ZZZZZZ			00:38																				
ZZZZZZ			00:41																				
ZZZZZZ			00:43																				
ZZZZZZ			00:46																				
ZZZZZZ			00:48																				
CCVH 280-101718/107	1		00:51	X	X	X	X	X	X	X													
CCV 280-101718/108	1		00:53	X	X	X	X	X	X	X													
CCB 280-101718/109	1		00:56	X	X	X	X	X	X	X													
CCVL 280-101718/110			00:58																				
MB 280-101476/1-A	1	R	01:01	X	X	X	X	X	X	X													
LCS 280-101476/2-A	1	R	01:04	X	X	X	X	X	X	X													
280-23566-1	1	D	01:06	X	X	X	X	X	X	X													
280-23566-1 SD	5	D	01:08	X	X	X	X	X	X	X													
280-23566-1 MS	1	D	01:11	X	X	X	X	X	X	X													
280-23566-1 MSD	1	D	01:13	X	X	X	X	X	X	X													
280-23566-1 PDS	1	D	01:15	X	X	X	X	X	X	X													
280-23566-2	1	D	01:18	X	X	X	X	X	X	X													
CCVH 280-101718/119	1		01:21	X	X	X	X	X	X	X													
CCV 280-101718/120	1		01:23	X	X	X	X	X	X	X													
CCB 280-101718/121	1		01:25	X	X	X	X	X	X	X													
ZZZZZZ			01:28																				
ZZZZZZ			01:31																				
ZZZZZZ			01:33																				
ZZZZZZ			01:35																				
ZZZZZZ			01:38																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_026 Method: 6010B

Start Date: 12/28/2011 14:53 End Date: 12/29/2011 02:28

Lab Sample ID	D / F	Type	Time	Analytes																			
				Al	B	Ca	Fe	K	Mg	Na													
ZZZZZZ			01:41																				
ZZZZZZ			01:43																				
ZZZZZZ			01:46																				
ZZZZZZ			01:49																				
CCVH 280-101718/131			01:51																				
CCV 280-101718/132			01:54																				
CCB 280-101718/133			01:56																				
ZZZZZZ			01:59																				
ZZZZZZ			02:01																				
ZZZZZZ			02:04																				
ZZZZZZ			02:07																				
ZZZZZZ			02:09																				
ZZZZZZ			02:12																				
ZZZZZZ			02:14																				
ZZZZZZ			02:18																				
CCVH 280-101718/142			02:20																				
CCV 280-101718/143			02:23																				
CCB 280-101718/144			02:25																				
ZZZZZZ			02:28																				

Prep Types

D = Dissolved

R = Total Recoverable

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_024 Method: 6020

Start Date: 12/28/2011 17:09 End Date: 12/29/2011 05:19

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mn	Mo	Ni	Pb	Sb	Se	Tl	V	Zn			
ITUNE 280-101714/1			17:09																				
IC 280-101714/2	1		17:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
IC 280-101714/3	1		17:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICV 280-101714/4	1		17:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			17:24																				
ICB 280-101714/6	1		17:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CRI 280-101714/7	1		17:30	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X			
ZZZZZZ			17:32																				
ICSA 280-101714/9	1		17:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICSAB 280-101714/10	1		17:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
RINSE 280-101714/11			17:41																				
ZZZZZZ			17:44																				
LRA 280-101714/13			17:47																				
RINSE 280-101714/14			17:50																				
CRI 280-101714/15	1		17:52														X						
CCV 280-101714/16	1		17:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 280-101714/17	1		17:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			18:01																				
CCV 280-101714/19			19:19																				
CCB 280-101714/20			19:22																				
ZZZZZZ			19:25																				
ZZZZZZ			19:28																				
ZZZZZZ			19:30																				
ZZZZZZ			19:33																				
ZZZZZZ			19:36																				
ZZZZZZ			19:39																				
ZZZZZZ			19:42																				
ZZZZZZ			19:45																				
CCV 280-101714/29			19:48																				
CCB 280-101714/30			19:51																				
ZZZZZZ			19:53																				
ZZZZZZ			19:56																				
ZZZZZZ			19:59																				
ZZZZZZ			20:02																				
ZZZZZZ			20:05																				
ZZZZZZ			20:08																				
CCV 280-101714/37			20:11																				
CCB 280-101714/38			20:14																				
CCV 280-101714/39			21:02																				
CCB 280-101714/40			21:05																				
ZZZZZZ			21:08																				
ZZZZZZ			21:11																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_024 Method: 6020

Start Date: 12/28/2011 17:09 End Date: 12/29/2011 05:19

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mn	Mo	Ni	Pb	Sb	Se	Tl	V	Zn			
ZZZZZZ			21:14																				
ZZZZZZ			21:17																				
ZZZZZZ			21:20																				
ZZZZZZ			21:23																				
ZZZZZZ			21:26																				
ZZZZZZ			21:29																				
ZZZZZZ			21:32																				
ZZZZZZ			21:35																				
CCV 280-101714/51			21:38																				
CCB 280-101714/52			21:40																				
ZZZZZZ			21:43																				
IC 280-101714/54			23:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
IC 280-101714/55			23:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 280-101714/56			23:37																				
CCB 280-101714/57			23:40																				
ZZZZZZ			23:43																				
ZZZZZZ			23:46																				
ZZZZZZ			23:49																				
ZZZZZZ			23:52																				
ZZZZZZ			23:55																				
ZZZZZZ			23:58																				
ZZZZZZ			00:01																				
ZZZZZZ			00:04																				
ZZZZZZ			00:07																				
CCV 280-101714/67			00:09																				
CCB 280-101714/68			00:12																				
ZZZZZZ			00:15																				
ZZZZZZ			00:18																				
ZZZZZZ			00:21																				
ZZZZZZ			00:24																				
ZZZZZZ			00:27																				
ZZZZZZ			00:30																				
ZZZZZZ			00:32																				
CCV 280-101714/76			00:35																				
CCB 280-101714/77			00:38																				
ZZZZZZ			00:41																				
ZZZZZZ			00:44																				
ZZZZZZ			00:47																				
CCV 280-101714/81			00:50																				
CCB 280-101714/82			00:53																				
RINSE 280-101714/83			00:56																				
RINSE 280-101714/84			00:59																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_024 Method: 6020

Start Date: 12/28/2011 17:09 End Date: 12/29/2011 05:19

Lab Sample ID	D / F	Type	Time	Analytes																		
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mn	Mo	Ni	Pb	Sb	Se	Tl	V	Zn			
RINSE 280-101714/85			01:01																			
RINSE 280-101714/86			01:04																			
ZZZZZZ			01:07																			
IC 280-101714/88	1		03:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
IC 280-101714/89	1		03:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV 280-101714/90	1		04:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB 280-101714/91	1		04:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZZ			04:07																			
MB 280-101478/1-A	1	R	04:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LCS 280-101478/2-A	1	R	04:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
280-23566-1	1	D	04:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
280-23566-2	1	D	04:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
280-23566-2 SD	5	D	04:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
280-23566-2 PDS	1	D	04:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
280-23566-2 MS	1	D	04:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
280-23566-2 MSD	1	D	04:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
280-23566-1	1	T	04:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
280-23566-2	1	T	04:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCV 280-101714/103	1		04:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB 280-101714/104	1		04:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZZ			04:45																			
MB 280-101490/1-A	1	T	04:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
LCS 280-101490/2-A	1	T	04:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZZ			04:53																			
ZZZZZZ			04:56																			
ZZZZZZ			04:59																			
ZZZZZZ			05:02																			
ZZZZZZ			05:05																			
ZZZZZZ			05:08																			
ZZZZZZ			05:11																			
CCV 280-101714/115	1		05:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
CCB 280-101714/116	1		05:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ZZZZZZ			05:19																			

Prep Types

D = Dissolved

R = Total Recoverable

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_033 Method: 7470A

Start Date: 12/13/2011 11:17 End Date: 12/13/2011 17:02

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
STD0 280-99898/1 IC			11:17	X																			
STD1 280-99898/2 IC			11:19	X																			
STD2 280-99898/3 IC			11:21	X																			
STD3 280-99898/4 IC			11:24	X																			
STD4 280-99898/5 IC			11:26	X																			
STD5 280-99898/6 IC			11:28	X																			
STD6 280-99898/7 IC			11:31	X																			
ICV 280-99898/8	1		11:33	X																			
ICB 280-99898/9	1		11:35	X																			
CRA 280-99898/10			11:38																				
CCV 280-99898/11			11:40																				
CCB 280-99898/12			11:42																				
ZZZZZZ			11:45																				
ZZZZZZ			11:47																				
ZZZZZZ			11:49																				
ZZZZZZ			12:03																				
ZZZZZZ			12:05																				
CCV 280-99898/18			12:08																				
CCB 280-99898/19			12:10																				
ZZZZZZ			12:12																				
ZZZZZZ			12:15																				
ZZZZZZ			12:17																				
ZZZZZZ			12:19																				
ZZZZZZ			12:21																				
ZZZZZZ			12:24																				
ZZZZZZ			12:30																				
ZZZZZZ			12:37																				
ZZZZZZ			12:41																				
ZZZZZZ			12:47																				
CCV 280-99898/30			12:50																				
CCB 280-99898/31			12:52																				
ZZZZZZ			12:54																				
ZZZZZZ			12:57																				
ZZZZZZ			12:59																				
ZZZZZZ			13:01																				
ZZZZZZ			13:04																				
ZZZZZZ			13:06																				
ZZZZZZ			13:08																				
ZZZZZZ			13:13																				
ZZZZZZ			13:15																				
ZZZZZZ			13:17																				
CCV 280-99898/42			13:20																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_033 Method: 7470A

Start Date: 12/13/2011 11:17 End Date: 12/13/2011 17:02

Lab Sample ID	D / F	Type	Time	Analytes																				
				Hg																				
CCB 280-99898/43			13:22																					
ZZZZZZ			13:24																					
ZZZZZZ			13:26																					
ZZZZZZ			13:29																					
ZZZZZZ			13:31																					
ZZZZZZ			13:33																					
ZZZZZZ			13:36																					
ZZZZZZ			13:47																					
ZZZZZZ			13:49																					
ZZZZZZ			13:51																					
ZZZZZZ			13:54																					
CCV 280-99898/54			13:56																					
CCB 280-99898/55			13:58																					
ZZZZZZ			14:01																					
ZZZZZZ			14:03																					
ZZZZZZ			14:05																					
ZZZZZZ			14:08																					
ZZZZZZ			14:10																					
ZZZZZZ			14:12																					
ZZZZZZ			14:15																					
ZZZZZZ			14:17																					
ZZZZZZ			14:19																					
ZZZZZZ			14:22																					
CCV 280-99898/66	1		14:24	X																				
CCB 280-99898/67	1		14:26	X																				
MB 280-99589/1-A	1	T	14:28	X																				
LCS 280-99589/2-A	1	T	14:31	X																				
ZZZZZZ			14:33																					
ZZZZZZ			14:35																					
ZZZZZZ			14:38																					
ZZZZZZ			14:40																					
ZZZZZZ			14:42																					
ZZZZZZ			14:45																					
ZZZZZZ			14:47																					
ZZZZZZ			14:49																					
ZZZZZZ			14:52																					
CCV 280-99898/79	1		14:54	X																				
CCB 280-99898/80	1		14:56	X																				
ZZZZZZ			14:59																					
ZZZZZZ			15:01																					
280-23566-1	1	D	15:03	X																				
280-23566-2	1	D	15:06	X																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_033 Method: 7470A

Start Date: 12/13/2011 11:17 End Date: 12/13/2011 17:02

Lab Sample ID	D / F	Type	Time	Analytes																				
				Hg																				
ZZZZZZ			15:08																					
ZZZZZZ			15:10																					
ZZZZZZ			15:13																					
ZZZZZZ			15:15																					
ZZZZZZ			15:17																					
ZZZZZZ			15:20																					
CCV 280-99898/91	1		15:22	X																				
CCB 280-99898/92	1		15:24	X																				
ZZZZZZ			15:26																					
ZZZZZZ			15:29																					
ZZZZZZ			15:31																					
ZZZZZZ			15:33																					
ZZZZZZ			15:36																					
ZZZZZZ			15:38																					
ZZZZZZ			15:40																					
ZZZZZZ			15:43																					
ZZZZZZ			15:45																					
ZZZZZZ			15:47																					
CCV 280-99898/103			15:50																					
CCB 280-99898/104			15:52																					
ZZZZZZ			15:54																					
ZZZZZZ			15:57																					
ZZZZZZ			15:59																					
ZZZZZZ			16:01																					
ZZZZZZ			16:04																					
ZZZZZZ			16:06																					
ZZZZZZ			16:08																					
ZZZZZZ			16:11																					
ZZZZZZ			16:13																					
ZZZZZZ			16:15																					
CCV 280-99898/115			16:18																					
CCB 280-99898/116			16:20																					
ZZZZZZ			16:22																					
ZZZZZZ			16:25																					
ZZZZZZ			16:27																					
ZZZZZZ			16:29																					
ZZZZZZ			16:32																					
ZZZZZZ			16:34																					
ZZZZZZ			16:36																					
ZZZZZZ			16:39																					
ZZZZZZ			16:41																					
ZZZZZZ			16:43																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_033 Method: 7470A

Start Date: 12/13/2011 11:17 End Date: 12/13/2011 17:02

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCV 280-99898/127			16:46																				
CCB 280-99898/128			16:48																				
ZZZZZZ			16:50																				
ZZZZZZ			16:52																				
ZZZZZZ			16:55																				
ZZZZZZ			16:57																				
CCV 280-99898/133			16:59																				
CCB 280-99898/134			17:02																				

Prep Types

D = Dissolved

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_034 Method: 7470A

Start Date: 12/15/2011 11:02 End Date: 12/15/2011 16:11

Lab Sample ID	D/F	Type	Time	Analytes																				
				Hg																				
STD0 280-100260/1 IC			11:02	X																				
STD1 280-100260/2 IC			11:05	X																				
STD2 280-100260/3 IC			11:07	X																				
STD3 280-100260/4 IC			11:09	X																				
STD4 280-100260/5 IC			11:12	X																				
STD5 280-100260/6 IC			11:14	X																				
STD6 280-100260/7 IC			11:16	X																				
ICV 280-100260/8	1		11:20	X																				
ICB 280-100260/9	1		11:24	X																				
CRA 280-100260/10			11:26																					
CCV 280-100260/11			11:29																					
CCB 280-100260/12			11:31																					
ZZZZZZ			11:33																					
ZZZZZZ			11:35																					
ZZZZZZ			11:38																					
ZZZZZZ			11:40																					
CCV 280-100260/17	1		11:42	X																				
CCB 280-100260/18	1		11:45	X																				
MB 280-99940/1-A	1	T	12:13	X																				
ZZZZZZ			12:15																					
LCS 280-99940/2-A	1	T	12:21	X																				
ZZZZZZ			12:23																					
ZZZZZZ			12:25																					
ZZZZZZ			12:28																					
ZZZZZZ			12:30																					
ZZZZZZ			12:32																					
ZZZZZZ			12:35																					
ZZZZZZ			12:37																					
ZZZZZZ			12:39																					
CCV 280-100260/30	1		12:42	X																				
CCB 280-100260/31	1		12:44	X																				
CCB 280-100260/32	1		12:50	X																				
ZZZZZZ			12:52																					
ZZZZZZ			12:54																					
ZZZZZZ			12:57																					
ZZZZZZ			12:59																					
ZZZZZZ			13:01																					
280-23566-1	1	T	13:03	X																				
280-23566-2	1	T	13:06	X																				
ZZZZZZ			13:08																					
ZZZZZZ			13:10																					
ZZZZZZ			13:13																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_034 Method: 7470A

Start Date: 12/15/2011 11:02 End Date: 12/15/2011 16:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
CCV 280-100260/43	1		13:15	X																			
CCB 280-100260/44	1		13:17	X																			
ZZZZZZ			13:20																				
ZZZZZZ			13:22																				
ZZZZZZ			13:24																				
ZZZZZZ			13:26																				
ZZZZZZ			13:29																				
ZZZZZZ			13:31																				
CCV 280-100260/51			13:33																				
CCB 280-100260/52			13:36																				
ZZZZZZ			13:38																				
ZZZZZZ			13:40																				
ZZZZZZ			13:43																				
ZZZZZZ			13:45																				
ZZZZZZ			13:47																				
ZZZZZZ			13:50																				
ZZZZZZ			13:52																				
ZZZZZZ			13:54																				
ZZZZZZ			13:56																				
ZZZZZZ			13:59																				
CCV 280-100260/63			14:01																				
CCB 280-100260/64			14:03																				
ZZZZZZ			14:06																				
ZZZZZZ			14:08																				
ZZZZZZ			14:10																				
ZZZZZZ			14:13																				
ZZZZZZ			14:28																				
ZZZZZZ			14:30																				
ZZZZZZ			14:33																				
ZZZZZZ			14:37																				
ZZZZZZ			14:39																				
ZZZZZZ			14:42																				
CCV 280-100260/75			14:44																				
CCB 280-100260/76			14:46																				
ZZZZZZ			14:49																				
ZZZZZZ			14:52																				
ZZZZZZ			14:54																				
ZZZZZZ			14:57																				
ZZZZZZ			15:00																				
ZZZZZZ			15:02																				
ZZZZZZ			15:11																				
ZZZZZZ			15:13																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Instrument ID: MT_034 Method: 7470A

Start Date: 12/15/2011 11:02 End Date: 12/15/2011 16:11

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			15:15																				
ZZZZZZ			15:18																				
ZZZZZZ			15:20																				
CCV 280-100260/88			15:22																				
CCB 280-100260/89			15:25																				
ZZZZZZ			15:27																				
ZZZZZZ			15:29																				
ZZZZZZ			15:32																				
ZZZZZZ			15:34																				
ZZZZZZ			15:36																				
ZZZZZZ			15:39																				
ZZZZZZ			15:41																				
ZZZZZZ			15:43																				
ZZZZZZ			15:46																				
ZZZZZZ			15:48																				
CCV 280-100260/100			15:50																				
CCB 280-100260/101			15:52																				
ZZZZZZ			15:55																				
ZZZZZZ			15:57																				
ZZZZZZ			15:59																				
ZZZZZZ			16:02																				
ZZZZZZ			16:04																				
ZZZZZZ			16:06																				
CCV 280-100260/108			16:09																				
CCB 280-100260/109			16:11																				

Prep Types
T = Total/NA

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

ICP-MS Instrument ID: MT_024 Analysis Date: 12/28/11

Lab ID: ITUNE 280-101714/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-7	7.00	0.60	1.35	
Be-9	9.00	0.65	2.78	
Mg-24	24.00	0.60	1.94	
Co-59	59.00	0.60	2.11	
In-115	115.00	0.60	1.32	
Pb-208	207.95	0.55	1.47	
U-238	237.95	0.60	2.45	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

ICP-MS Instrument ID: MT_024 Start Date: 12/28/2011 End Date: 12/29/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
IC 280-101714/2	17:15	100		100		100		100		100	
IC 280-101714/3	17:18	101		100		101		100		100	
ICV 280-101714/4	17:21	98		99		100		99		100	
ICB 280-101714/6	17:27	97		100		101		101		101	
CRI 280-101714/7	17:30	99		100		101		101		101	
ICSA 280-101714/9	17:35	90		88		85		85		88	
ICSAB 280-101714/10	17:38	89		85		83		82		87	
CRI 280-101714/15	17:52	96		100		100		101		101	
CCV 280-101714/16	17:55	97		99		100		102		102	
CCB 280-101714/17	17:58	98		100		100		101		102	
IC 280-101714/88	03:55	100		100		100		100		100	
IC 280-101714/89	03:58	100		100		100		100		100	
CCV 280-101714/90	04:01	98		100		100		100		100	
CCB 280-101714/91	04:04	100		100		99		99		101	
MB 280-101478/1-A	04:10	102		103		102		103		104	
LCS 280-101478/2-A	04:13	103		104		102		104		105	
280-23566-1	04:15	96		99		94		94		97	
280-23566-2	04:18	105		106		105		105		105	
280-23566-2 SD	04:21	106		103		102		103		104	
280-23566-2 PDS	04:24	104		104		104		105		105	
280-23566-2 MS	04:27	105		104		103		103		107	
280-23566-2 MSD	04:30	105		103		102		105		104	
280-23566-1	04:33	92		94		90		90		93	
280-23566-2	04:36	101		99		99		98		99	
CCV 280-101714/103	04:39	103		103		102		102		102	
CCB 280-101714/104	04:42	103		104		102		102		103	
MB 280-101490/1-A	04:47	102		99		98		98		99	
LCS 280-101490/2-A	04:50	101		100		99		98		100	
CCV 280-101714/115	05:14	106		107		105		106		106	
CCB 280-101714/116	05:16	104		107		105		106		106	

Sample Name: ICIS Acquired: 12/13/2011 13:23:23 Type: Cal
Method: 6500_025(v23) Mode: IR Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00011**	**.00744**	**-.02381**	**-.00007**	**.00102**	**.00650**	**-.00290**	**-.00161**	**.00931**	**.00078**	**-.00077**	**-.00057**	**.00263**
Stddev	.00014	.00016	.00027	.00001	.00003	.00024	.00061	.00001	.00075	.00020	.00010	.00002	.00001
%RSD	132.25	2.1223	1.1153	10.354	2.8754	3.6579	20.890	.38461	8.1031	25.871	12.474	3.9862	.21499
#1	.00021	.00733	-.02362	-.00008	.00100	.00667	-.00248	-.00160	.00878	.00064	-.00070	-.00058	.00263
#2	.00001	.00755	-.02400	-.00007	.00104	.00633	-.00333	-.00161	.00984	.00092	-.00084	-.00055	.00262

Elem	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183	Ni2316	P_1782	Pb2203	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00010**	**.00033**	**-.00014**	**-.00069**	**-.00014**	**.00003**	**.00020**	**.01031**	**-.00774**	**.00023**	**.00065**	**.00028**	**.00033**
Stddev	.00030	.00023	.00026	.00038	.00007	.00002	.00008	.00261	.00088	.00009	.00002	.00037	.00000
%RSD	288.69	67.462	184.27	55.333	50.918	56.474	41.230	25.285	11.324	37.600	3.7168	129.17	.35846
#1	-.00032	.00018	-.00032	-.00096	-.00019	.00004	.00014	.01215	-.00712	.00017	.00063	.00002	.00033
#2	.00011	.00049	.00004	-.00042	-.00009	.00002	.00026	.00847	-.00836	.00030	.00067	.00054	.00033

Elem	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00076**	**.00021**	**.00151**	**.00151**	**.00025**	**-.00520**	**-.00019**	**-.00056**	**-.00054**	**.00036**	**-.00002**	**.00000**	**-.00249**
Stddev	.00027	.00001	.00026	.00026	.00003	.00086	.00004	.00001	.00001	.00007	.00013	.00001	.00040
%RSD	35.702	2.8838	17.247	17.247	10.199	16.590	20.843	2.0272	2.7186	18.820	527.95	312.09	16.113
#1	.00095	.00022	.00133	.00133	.00023	-.00581	-.00016	-.00057	-.00055	.00041	.00007	-.00001	-.00220
#2	.00057	.00021	.00170	.00170	.00026	-.00459	-.00021	-.00055	-.00053	.00032	-.00011	.00001	-.00277

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4037.1**	**48931.**	**5326.2**
Stddev	19.0	152.	27.8
%RSD	.47047	.31113	.52241
#1	4023.7	48824.	5345.9
#2	4050.5	49039.	5306.6

Sample Name: ICAL1 Acquired: 12/13/2011 13:25:50 Type: Cal
Method: 6500_025(v23) Mode: IR Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.30076**	**.09241**	**.11752**	**.36772**	**6.9501**	**7.6786**	**2.3496**	**1.8017**	**1.0122**	**1.1003**	**.51654**	**.84402**	**5.2092**	**1.9807**
Stddev	.00106	.00019	.00053	.00076	.0155	.0115	.0015	.0017	.0007	.0003	.00148	.00034	.0229	.0007
%RSD	.35223	.20652	.44727	.20558	.22258	.14942	.06432	.09595	.07275	.03120	.28572	.04080	.43934	.03698
#1	.30151	.09254	.11789	.36825	6.9610	7.6705	2.3507	1.8030	1.0127	1.1006	.51550	.84427	5.2254	1.9802
#2	.30001	.09227	.11715	.36718	6.9391	7.6867	2.3486	1.8005	1.0117	1.1001	.51759	.84378	5.1930	1.9812

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2853**	**1.6852**	**.62222**	**2.0573**	**.85066**	**.13116**	**.53455**	**.26092**	**.10435**	**.47361**	**.47361**	**.24905**	**14.279**	**.51884**
Stddev	.0070	.0086	.00035	.0013	.00037	.00032	.00180	.00057	.00050	.00108	.00108	.00077	.044	.00033
%RSD	.54366	.50961	.05685	.06133	.04376	.24717	.33662	.22005	.48050	.22874	.22874	.30812	.30675	.06356
#1	1.2903	1.6912	.62247	2.0564	.85093	.13139	.53582	.26133	.10470	.47284	.47284	.24959	14.310	.51908
#2	1.2804	1.6791	.62197	2.0582	.85040	.13093	.53327	.26052	.10400	.47437	.47437	.24851	14.248	.51861

Elem	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.21768**	**.31821**	**.04761**	**.45580**
Stddev	.00034	.00128	.00018	.00088
%RSD	.15765	.40178	.38410	.19262
#1	.21792	.31911	.04774	.45642
#2	.21743	.31730	.04748	.45518

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3988.4**	**47274.**	**5382.0**
Stddev	.5	23.	7.9
%RSD	.01155	.04782	.14659
#1	3988.8	47290.	5376.4
#2	3988.1	47258.	5387.6

Sample Name: ICAL2 Acquired: 12/13/2011 13:28:01 Type: Cal
Method: 6500_025(v23) Mode: IR Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3092	Bi2230	Fe2714	Na8183	S_1820	Th2837	U_3701
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.8646**	**.28228**	**.77736**	**3.0498**	**.19833**	**.69114**	**.17223**
Stddev	.0044	.00007	.00172	.0045	.00035	.00067	.00024
%RSD	.07494	.02450	.22185	.14595	.17416	.09719	.14026
#1	5.8677	.28233	.77614	3.0529	.19857	.69162	.17240
#2	5.8615	.28223	.77858	3.0466	.19808	.69067	.17206

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3895.4**	**45929.**	**5379.2**
Stddev	4.2	133.	4.0
%RSD	.10691	.29015	.07502
#1	3898.4	45835.	5376.3
#2	3892.5	46023.	5382.1

Sample Name: S1-1169926 Acquired: 12/13/2011 13:30:27 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99149**	**.99460**	**1.9971**	**.99603**	**.99700**	**.99909**	**-.00024**	**9.9879**	**.99634**	**.99657**	**.99705**	**.99692**	**4.9949**
Stddev	.00432	.00091	.0102	.00007	.00002	.00289	.00012	.0299	.00198	.00043	.00044	.00073	.0118
%RSD	.43565	.09123	.50956	.00726	.00166	.28920	47.796	.29909	.19862	.04362	.04403	.07366	.23573
#1	.98843	.99396	2.0043	.99608	.99699	.99705	-.00016	9.9668	.99494	.99626	.99674	.99640	4.9866
#2	.99454	.99524	1.9899	.99598	.99701	1.0011	-.00033	10.009	.99774	.99688	.99736	.99744	5.0032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**100.48**	**2.0029**	**39.898**	**.99176**	**.99727**	**10.067**	F **10.838**	**.99456**	**1.9949**	**1.9837**	**-.03405**	**1.9914**	**1.9847**
Stddev	.10	.0035	.166	.00256	.00003	.012	.136	.00084	.0000	.0050	.00405	.0052	.0144
%RSD	.10106	.17637	.41488	.25861	.00312	.11941	1.2545	.08427	.00065	.25106	11.886	.25990	.72658
#1	100.55	2.0054	40.015	.99357	.99725	10.076	10.742	.99515	1.9949	1.9872	-.03118	1.9878	1.9949
#2	100.41	2.0005	39.781	.98994	.99729	10.059	10.935	.99397	1.9949	1.9802	-.03691	1.9951	1.9745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							10.000						
Range							5.0000%						

Elem	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9307**	**21.252**	**1.9941**	**1.0045**	**-.00269**	**1.0001**	**1.9885**	**-.01513**	**.99090**	**.99693**	**.99845**
Stddev	.0847	.181	.0029	.0019	.00042	.0045	.0086	.01523	.00076	.00549	.00205
%RSD	.85261	.85261	.14723	.18753	15.711	.45130	.43032	100.63	.07620	.55084	.20559
#1	9.8708	21.124	1.9920	1.0058	-.00239	1.0032	1.9824	-.00436	.99143	1.0008	.99700
#2	9.9905	21.380	1.9961	1.0031	-.00299	.99686	1.9945	-.02590	.99037	.99305	.99990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4010.9**	**47538.**	**5406.0**
Stddev	2.5	261.	35.0
%RSD	.06339	.54863	.64828
#1	4012.6	47354.	5430.7
#2	4009.1	47723.	5381.2

Sample Name: S2-1169741 Acquired: 12/13/2011 13:32:38 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00062**	**97.532**	**-.00418**	**.00306**	**.00113**	**-.00012**	**1.9346**	**.00563**	**-.00116**	**.00165**	**.00075**	**-.00227**
Stddev	.00076	.442	.00196	.00050	.00027	.00008	.0002	.00264	.00001	.00008	.00003	.00012
%RSD	122.41	.45359	46.827	16.458	24.291	66.009	.00861	46.858	.74672	4.8747	3.6242	5.3073
#1	-.00008	97.845	-.00280	.00270	.00093	-.00006	1.9345	.00750	-.00116	.00171	.00074	-.00218
#2	-.00116	97.219	-.00557	.00341	.00132	-.00018	1.9347	.00377	-.00117	.00159	.00077	-.00235
Check ?	Chk Fail	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None
Value	.00000											
Range	-.07000%											

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**97.871**	**.28114**	**.00343**	**-.00707**	**-.00281**	**-.00231**	**488.50**	**.00173**	**.00459**	**-.00241**	**9.7381**	**-.00014**
Stddev	.286	.02524	.00000	.00157	.00003	.00019	2.18	.00003	.00041	.00044	.0108	.00044
%RSD	.29241	8.9788	.07645	22.212	1.1518	8.4042	.44667	1.9640	8.9155	18.175	.11136	317.70
#1	98.073	.26329	.00343	-.00818	-.00283	-.00217	490.04	.00171	.00488	-.00210	9.7458	.00017
#2	97.669	.29899	.00343	-.00596	-.00279	-.00244	486.96	.00176	.00430	-.00272	9.7305	-.00045
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None
Value												
Range												

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00943**	**.03246**	**.06947**	**.00575**	**.00096**	**9.7369**	**.00266**	**-.00879**	**19.574**	**-.00027**	**.00228**	**-.02556**
Stddev	.00378	.00067	.00144	.00036	.00008	.1278	.00016	.00044	.260	.00029	.00004	.00493
%RSD	40.039	2.0751	2.0751	6.1769	8.5861	1.3131	5.9528	5.0326	1.3286	107.66	1.9610	19.302
#1	.00676	.03294	.07049	.00550	.00102	9.6465	.00277	-.00847	19.390	-.00048	.00224	-.02207
#2	.01210	.03198	.06845	.00600	.00090	9.8273	.00255	-.00910	19.757	-.00006	.00231	-.02905
Check ?	None	None	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value												
Range												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3960.5**	**46268.**	**5478.7**
Stddev	11.4	259.	7.9
%RSD	.28689	.56050	.14367
#1	3968.5	46452.	5473.2
#2	3952.4	46085.	5484.3

Sample Name: ICVH-1151380 Acquired: 12/13/2011 13:37:08 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**41.252**	**-.00355**	**.00035**	**.00023**	**-.00005**	F **.52620**	**38.975**	**-.00031**	**.00109**	**.00046**	**.00018**	**79.129**
Stddev	.00008	.235	.00378	.00013	.00015	.00007	.00176	.237	.00006	.00012	.00025	.00002	.554
%RSD	14.648	.56896	106.58	35.426	65.942	133.86	.33368	.60682	19.454	11.483	54.669	9.3319	.70056
#1	-.00064	41.418	-.00087	.00027	.00012	.00000	.52744	39.142	-.00036	.00117	.00028	.00020	79.521
#2	-.00052	41.086	-.00622	.00044	.00034	-.00010	.52496	38.808	-.00027	.00100	.00064	.00017	78.737
Check ?	None	Chk Pass	None	None	None	None	Chk Fail	None	None	None	None	None	Chk Pass
Value							.50000						
Range							5.0000%						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06367**	**.00227**	**-.00655**	**.00005**	**-.00126**	F **42.281**	**.00030**	**.00222**	**-.00007**	**4.0502**	**-.00174**	**.00304**	**.00299**
Stddev	.01188	.00184	.00039	.00004	.00007	.013	.00005	.00059	.00061	.0050	.00147	.00171	.00325
%RSD	18.653	80.815	6.0128	90.558	5.7310	.03022	17.224	26.626	868.63	.12239	84.830	56.401	108.62
#1	.05527	.00097	-.00683	.00008	-.00131	42.290	.00027	.00264	-.00050	4.0537	-.00070	.00425	.00069
#2	.07206	.00357	-.00627	.00002	-.00121	42.272	.00034	.00180	.00036	4.0467	-.00278	.00183	.00528
Check ?	None	None	None	None	None	Chk Fail	None	None	None	Chk Pass	None	None	None
Value						40.000							
Range						5.0000%							

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00639**	**.00198**	**.00045**	**3.0412**	**.00093**	**-.00091**	**5.0928**	**.00088**	**2.4843**	**-.00900**
Stddev	.00694	.00009	.00002	.0119	.00030	.00080	.0355	.00042	.0087	.00118
%RSD	108.62	4.6159	4.4729	.39031	32.526	87.864	.69672	47.951	.34879	13.149
#1	.00148	.00204	.00046	3.0496	.00071	-.00034	5.1179	.00118	2.4904	-.00817
#2	.01130	.00191	.00044	3.0328	.00114	-.00148	5.0677	.00058	2.4782	-.00984
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4071.3**	**48502.**	**5474.0**
Stddev	11.0	41.	18.9
%RSD	.26977	.08540	.34441
#1	4079.1	48531.	5460.7
#2	4063.6	48473.	5487.4

Sample Name: ICV-1159460 Acquired: 12/13/2011 13:40:15 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24582**	W **.26423**	**.24725**	**.24738**	**.24492**	**.24566**	**.00332**	**2.0118**	**.25124**	**.25122**	**.24912**	**.24762**
Stddev	.00065	.00180	.00068	.00055	.00012	.00034	.00270	.0068	.00027	.00014	.00041	.00006
%RSD	.26314	.68293	.27417	.22080	.04740	.14017	81.175	.33613	.10815	.05655	.16368	.02591
#1	.24627	.26295	.24677	.24699	.24500	.24590	.00142	2.0166	.25143	.25132	.24883	.24767
#2	.24536	.26550	.24773	.24776	.24484	.24542	.00523	2.0070	.25104	.25112	.24941	.24758
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.25000										
Range		5.0000%										

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25377**	**20.264**	**.25445**	**9.9245**	**.25166**	**.24243**	**2.0375**	**.25099**	**1.9511**	**.25430**	**.00616**	**.24134**
Stddev	.00208	.048	.00012	.0154	.00099	.00121	.0089	.00105	.0031	.00048	.00247	.00072
%RSD	.82016	.23569	.04717	.15559	.39260	.49916	.43564	.41719	.15688	.18983	40.005	.29666
#1	.25230	20.297	.25453	9.9354	.25235	.24329	2.0312	.25173	1.9533	.25395	.00791	.24185
#2	.25524	20.230	.25436	9.9136	.25096	.24158	2.0437	.25025	1.9490	.25464	.00442	.24083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49190**	**1.9915**	**4.2618**	**.49721**	**.25203**	**-.00125**	**.24618**	**.51473**	**.00595**	**.24264**	**.25181**	**.24354**
Stddev	.00174	.0078	.0166	.00201	.00031	.00106	.00110	.00171	.00141	.00070	.00008	.00038
%RSD	.35408	.38963	.38963	.40381	.12381	85.047	.44867	.33243	23.759	.28966	.03259	.15697
#1	.49067	1.9970	4.2735	.49579	.25225	-.00200	.24696	.51352	.00495	.24314	.25175	.24381
#2	.49313	1.9860	4.2501	.49863	.25181	-.00050	.24539	.51594	.00695	.24215	.25187	.24327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4122.3**	**49069.**	**5398.8**
Stddev	2.7	250.	7.2
%RSD	.06515	.50881	.13258
#1	4124.2	48892.	5403.9
#2	4120.4	49246.	5393.8

Sample Name: ICVL1171013 Acquired: 12/13/2011 13:45:24 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00964**	**.10617**	**.01419**	**.10504**	**.01011**	**.00104**	**.11572**	**.20756**	**.00520**	**.01094**	**.01044**	**.01565**	**.10202**
Stddev	.00011	.00133	.00137	.00099	.00007	.00002	.00112	.00167	.00010	.00004	.00002	.00011	.00107
%RSD	1.1027	1.2519	9.6639	.94252	.65825	2.1310	.96688	.80241	1.8653	.31996	.15259	.72857	1.0504
#1	.00972	.10523	.01322	.10434	.01015	.00102	.11493	.20638	.00513	.01092	.01045	.01557	.10127
#2	.00957	.10711	.01516	.10574	.01006	.00105	.11651	.20873	.00526	.01097	.01043	.01573	.10278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1877**	F **.01386**	**.21046**	**.01041**	**.02043**	**1.0668**	**.04183**	**3.1309**	**.01004**	**-.00260**	**.00830**	**.01664**	**.51246**
Stddev	.0673	.00053	.00057	.00008	.00017	.0020	.00045	.0093	.00098	.00108	.00057	.00025	.01213
%RSD	2.1096	3.8240	.26891	.75389	.82701	.19066	1.0741	.29615	9.8029	41.546	6.8506	1.5224	2.3680
#1	3.1402	.01348	.21006	.01035	.02031	1.0682	.04151	3.1244	.01074	-.00336	.00790	.01646	.50388
#2	3.2353	.01423	.21086	.01046	.02055	1.0653	.04215	3.1375	.00935	-.00183	.00870	.01682	.52104
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value		.01000											
Range		20.000%											

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0967**	**.10713**	**.01021**	**.01466**	**.01079**	**.01725**	**.05462**	**.00968**	**.02245**	**.01568**
Stddev	.0260	.00168	.00003	.00143	.00034	.00003	.02526	.00001	.00023	.00011
%RSD	2.3680	1.5727	.33633	9.7207	3.1218	.18856	46.246	.14688	1.0367	.70726
#1	1.0783	.10594	.01024	.01567	.01103	.01723	.03676	.00967	.02261	.01560
#2	1.1150	.10832	.01019	.01365	.01056	.01728	.07248	.00969	.02228	.01575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4182.9**	**50162.**	**5510.7**
Stddev	29.1	99.	47.5
%RSD	.69513	.19709	.86118
#1	4203.5	50232.	5544.3
#2	4162.4	50092.	5477.2

Sample Name: CCVH-1169743 Acquired: 12/13/2011 13:47:48 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**48.922**	**-.00405**	**.00078**	**.00042**	**-.00012**	**.98602**	**-.00175**	**-.00067**	**.00063**	**.00039**	**-.00105**	**49.285**
Stddev	.00056	.166	.00101	.00092	.00009	.00007	.00181	.00250	.00004	.00003	.00014	.00004	.120
%RSD	71.071	.33931	24.897	117.31	21.493	52.146	.18381	143.15	5.3724	4.5401	36.189	4.2623	.24311
#1	-.00039	49.040	-.00333	.00143	.00035	-.00008	.98474	-.00352	-.00070	.00061	.00049	-.00108	49.370
#2	-.00119	48.805	-.00476	.00013	.00048	-.00017	.98731	.00002	-.00065	.00065	.00029	-.00102	49.200
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05521**	**.00276**	**-.00613**	**-.00153**	**-.00179**	**244.06**	**.00074**	**.00219**	**-.00048**	**4.9078**	**-.00021**	**.00442**	**.02456**
Stddev	.02164	.00160	.00173	.00002	.00012	.56	.00001	.00138	.00022	.0544	.00039	.00051	.00821
%RSD	39.204	58.045	28.209	1.3869	6.7514	.23014	1.0008	62.871	44.849	1.1079	183.15	11.428	33.426
#1	.07051	.00163	-.00490	-.00154	-.00187	244.45	.00073	.00316	-.00064	4.8693	-.00049	.00478	.03037
#2	.03990	.00389	-.00735	-.00151	-.00170	243.66	.00075	.00122	-.00033	4.9462	.00006	.00407	.01876
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05256**	**.00283**	**.00036**	**4.8653**	**.00097**	**-.00316**	**10.080**	**-.00075**	**.00147**	**-.01228**
Stddev	.01757	.00074	.00001	.0123	.00018	.00135	.010	.00036	.00039	.00048
%RSD	33.426	26.154	1.8223	.25203	18.761	42.685	.10335	47.831	26.223	3.8949
#1	.06499	.00231	.00035	4.8567	.00084	-.00221	10.087	-.00050	.00175	-.01262
#2	.04014	.00335	.00036	4.8740	.00109	-.00411	10.072	-.00100	.00120	-.01195
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3906.7**	**46524.**	**5370.5**
Stddev	10.0	133.	6.1
%RSD	.25471	.28576	.11377
#1	3913.8	46618.	5374.8
#2	3899.7	46430.	5366.2

Sample Name: CCV-1169927 Acquired: 12/13/2011 13:50:09 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48893**	**.51097**	**.98970**	**.49064**	**.48553**	**.49282**	**.00064**	**4.9347**	**.49378**	**.50112**	**.50072**	**.49681**	**2.4571**
Stddev	.00187	.00627	.00653	.00342	.00033	.00117	.00128	.0145	.00203	.00291	.00226	.00372	.0008
%RSD	.38216	1.2277	.65984	.69658	.06841	.23758	200.74	.29327	.41075	.58154	.45082	.74784	.03044
#1	.48761	.51540	.99431	.49306	.48530	.49199	-.00027	4.9245	.49522	.50318	.50231	.49418	2.4577
#2	.49025	.50653	.98508	.48823	.48577	.49365	.00154	4.9450	.49235	.49906	.49912	.49944	2.4566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.218**	**.98798**	**19.597**	**.49504**	**.49842**	**4.9658**	**.50147**	**.98014**	**.99313**	**-.01326**	**.98012**	**.98636**	**4.9013**
Stddev	.167	.00654	.146	.00308	.00326	.0135	.00273	.00930	.00735	.00437	.00384	.00492	.0113
%RSD	.34020	.66157	.74336	.62157	.65376	.27242	.54405	.94875	.73995	32.918	.39200	.49842	.23074
#1	49.100	.98336	19.494	.49286	.50072	4.9562	.50340	.98671	.99833	-.01635	.98284	.98983	4.8933
#2	49.336	.99261	19.700	.49722	.49611	4.9754	.49954	.97356	.98794	-.01018	.97741	.98288	4.9093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.489**	**1.0005**	**.49050**	**-.00111**	**.49895**	**1.0008**	**-.00661**	**.49413**	**.49528**	**.48702**
Stddev	.024	.0040	.00153	.00156	.00375	.0076	.01486	.00365	.00335	.00131
%RSD	.23074	.40143	.31104	141.38	.75109	.76392	224.73	.73772	.67722	.26862
#1	10.472	1.0034	.48942	-.00221	.49630	1.0062	.00389	.49155	.49291	.48794
#2	10.506	.99770	.49158	.00000	.50160	.99542	-.01712	.49671	.49765	.48609
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4053.2**	**48226.**	**5460.4**
Stddev	8.0	285.	22.7
%RSD	.19712	.59001	.41485
#1	4047.5	48427.	5476.4
#2	4058.8	48025.	5444.4

Sample Name: ICB Acquired: 12/13/2011 13:52:22 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00125**	**-.00140**	**-.00002**	**-.00001**	**.00005**	**.00250**	**-.00096**	**.00015**	**.00010**	**-.00001**	**-.00013**	**.00049**
Stddev	.00031	.00114	.00221	.00030	.00005	.00004	.00076	.00063	.00012	.00003	.00030	.00014	.00101
%RSD	123.45	91.372	157.40	1423.9	1031.8	74.185	30.373	65.704	83.028	25.847	2141.3	102.16	206.30
#1	-.00003	.00206	-.00296	.00019	.00003	.00008	.00303	-.00051	.00006	.00008	.00020	-.00023	-.00023
#2	-.00048	.00044	.00016	-.00024	-.00004	.00002	.00196	-.00140	.00023	.00012	-.00022	-.00004	.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04129**	**.00138**	**-.00138**	**-.00001**	**.00043**	**.00387**	**-.00040**	**-.00093**	**.00000**	**-.00169**	**.00176**	**.00122**	**-.00805**
Stddev	.01778	.00078	.00141	.00003	.00005	.00633	.00024	.00015	.0012	.00158	.00103	.00004	.00254
%RSD	43.056	56.552	102.09	288.43	12.483	163.56	59.253	16.171	73735.	93.457	58.883	3.4539	31.565
#1	.05386	.00193	-.00237	-.00003	.00046	-.00061	-.00023	-.00104	.00082	-.00281	.00103	.00119	-.00984
#2	.02872	.00083	-.00038	.00001	.00039	.00834	-.00057	-.00083	-.00083	-.00057	.00249	.00125	-.00625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01722**	**-.00034**	**-.00002**	**-.00021**	**.00008**	**.00010**	**-.01296**	**-.00021**	**.00126**	**.00111**
Stddev	.00543	.00050	.00004	.00103	.00005	.00044	.01743	.00019	.00026	.00217
%RSD	31.565	147.15	238.01	491.60	67.872	432.23	134.49	93.795	20.716	195.47
#1	-.02106	-.00069	.00001	.00052	.00004	.00041	-.02529	-.00007	.00145	-.00042
#2	-.01337	.00001	-.00005	-.00094	.00011	-.00021	-.00063	-.00034	.00108	.00264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4088.4**	**49773.**	**5358.1**
Stddev	10.8	187.	3.4
%RSD	.26437	.37556	.06278
#1	4080.7	49905.	5360.5
#2	4096.0	49641.	5355.7

Sample Name: CRI-1171011 Acquired: 12/13/2011 13:54:47 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00965**	**.10547**	**.00952**	**.09926**	**.00492**	**.00101**	**.11497**	**.20259**	**.00515**	**.00538**	**.01046**	**.01037**
Stddev	.00001	.00071	.00193	.00011	.00001	.00004	.00037	.00484	.00019	.00005	.00021	.00004
%RSD	.09148	.67134	20.241	.11386	.14310	4.2549	.32272	2.3891	3.6692	.91349	2.0072	.37769
#1	.00966	.10496	.00816	.09918	.00492	.00098	.11523	.20602	.00502	.00535	.01032	.01034
#2	.00965	.10597	.01088	.09934	.00491	.00104	.11470	.19917	.00529	.00542	.01061	.01039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03133**	**1.0530**	W **.01285**	**.20562**	**.00313**	**.00953**	**1.0300**	**.01025**	**.99505**	**.00293**	**.09846**	W **.00662**
Stddev	.00103	.0036	.00055	.00071	.00003	.00017	.0054	.00017	.00358	.00149	.00322	.00068
%RSD	3.2761	.34289	4.2898	.34482	1.0532	1.8093	.52309	1.6826	.35934	50.890	3.2662	10.220
#1	.03205	1.0505	.01324	.20512	.00310	.00965	1.0339	.01038	.99758	.00398	.10073	.00614
#2	.03060	1.0556	.01246	.20612	.00315	.00940	1.0262	.01013	.99253	.00187	.09618	.00710
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value			.01000									.01000
Range			20.000%									-20.000%

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00862**	**.46469**	**.99443**	**.01846**	**.00512**	W **.01213**	**.00961**	W **.01347**	W **.04770**	**.00945**	**.01181**	**.01074**
Stddev	.00555	.01090	.02333	.00003	.00003	.00064	.00004	.00037	.01683	.00006	.00034	.00028
%RSD	64.366	2.3466	2.3466	.17306	.63430	5.2701	.46472	2.7791	35.288	.59892	2.8429	2.5906
#1	.01254	.45697	.97793	.01844	.00510	.01167	.00958	.01320	.03580	.00941	.01157	.01055
#2	.00470	.47240	1.0109	.01848	.00515	.01258	.00964	.01373	.05961	.00949	.01205	.01094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value						.01000		.01000	.06000			
Range						20.000%		20.000%	-20.000%			

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4214.3**	**50511.**	**5560.8**
Stddev	7.6	520.	23.0
%RSD	.18143	1.0298	.41384
#1	4219.7	50879.	5577.1
#2	4208.9	50143.	5544.6

Sample Name: CRI-1171400 Acquired: 12/13/2011 14:10:22 Type: Unk
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00166**	**-.00215**	**-.00061**	**.00022**	**-.00004**	**-.00111**	**.00030**	**.00017**	**.00010**
Stddev	.00057	.00026	.00319	.00029	.00012	.00006	.00396	.00173	.00004	.00011
%RSD	198.32	15.902	148.29	47.976	55.860	153.02	357.80	570.02	21.525	103.42
#1	-.00069	-.00184	.00010	-.00082	.00031	.00000	-.00391	-.00092	.00020	.00018
#2	.00012	-.00147	-.00440	-.00041	.00013	-.00008	.00169	.00152	.00015	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00003**	**-.00009**	**.01823**	**.00270**	**-.00083**	**.00005**	**.00015**	**-.02084**	**-.00011**
Stddev	.00005	.00000	.00256	.01237	.00125	.00051	.00007	.00005	.00411	.00003
%RSD	39.989	12.886	2831.2	67.850	46.458	61.903	142.32	33.485	19.729	28.463
#1	-.00015	-.00004	-.00190	.02697	.00181	-.00047	.00011	.00018	-.02375	-.00013
#2	-.00008	-.00003	.00172	.00948	.00358	-.00119	.00000	.00011	-.01794	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**-.00053**	**.00041**	**.00880**	**.00339**	**-.01629**	**-.03487**	**-.00062**	**.00000**	**.00004**
Stddev	.00069	.00061	.00808	.00090	.00106	.00679	.01454	.00013	.0001	.00009
%RSD	128.92	115.96	1957.1	10.257	31.234	41.699	41.699	21.423	1939.5	226.35
#1	-.00005	-.00009	-.00530	.00943	.00414	-.01149	-.02459	-.00072	-.00005	.00011
#2	-.00103	-.00096	.00612	.00816	.00264	-.02110	-.04515	-.00053	.00004	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00967**	**-.01334**	**.00000**	**.00127**	**.00137**
Stddev	.00018	.00092	.01638	.00003	.00002	.00145
%RSD	115.62	9.5178	122.78	799.62	1.4513	105.78
#1	-.00028	.00902	-.02492	.00003	.00129	.00240
#2	-.00003	.01032	-.00176	-.00002	.00126	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4059.5**	**49716.**	**5409.9**
Stddev	24.9	47.	69.4
%RSD	.61301	.09442	1.2837
#1	4041.9	49683.	5360.8
#2	4077.1	49749.	5459.0

Sample Name: ICSA-1086133 Acquired: 12/13/2011 14:13:40 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**512.25**	**.00301**	**-.00330**	**.00044**	**.00001**	**.00490**	**451.79**	**.00024**	**-.00035**	**.00247**	**.00362**	**185.21**
Stddev	.00061	.50	.00106	.00155	.00016	.00003	.00012	4.23	.00008	.00024	.00039	.00029	.53
%RSD	132.93	.09681	35.414	47.003	36.973	433.47	2.5482	.93715	31.342	68.934	15.922	8.1040	.28418
#1	-.00003	512.60	.00376	-.00440	.00032	.00003	.00482	454.78	.00030	-.00052	.00219	.00341	185.58
#2	-.00089	511.89	.00225	-.00220	.00055	-.00001	.00499	448.80	.00019	-.00018	.00275	.00382	184.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05858**	**.00621**	**495.52**	**.00182**	**-.00215**	**.07595**	**-.00194**	**-.01044**	**-.00011**	**-.12280**	**-.00482**	**.00227**	**-.00971**
Stddev	.05620	.00014	2.60	.00006	.00002	.01600	.00015	.00062	.00055	.00864	.00074	.00442	.00119
%RSD	95.939	2.3052	.52437	3.0661	.81866	21.061	7.5186	5.9569	485.07	7.0385	15.269	194.30	12.249
#1	.09832	.00610	493.68	.00178	-.00214	.06464	-.00204	-.01088	-.00050	-.11668	-.00430	.00540	-.01055
#2	.01884	.00631	497.36	.00186	-.00216	.08726	-.00183	-.01000	.00027	-.12891	-.00535	-.00085	-.00887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02078**	**-.00193**	**.00195**	**-.00105**	**.00120**	**-.00062**	**-.01672**	**.00348**	**.00207**	**-.00637**
Stddev	.00255	.00107	.00002	.00227	.00038	.00076	.00024	.00001	.00029	.00042
%RSD	12.249	55.750	1.1869	216.21	31.377	121.98	1.4422	.25361	14.206	6.6664
#1	-.02258	-.00117	.00194	-.00266	.00147	-.00116	-.01655	.00348	.00186	-.00607
#2	-.01898	-.00269	.00197	.00056	.00094	-.00009	-.01689	.00347	.00227	-.00668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3716.9**	**42998.**	**5369.1**
Stddev	13.5	78.	37.3
%RSD	.36377	.18072	.69414
#1	3726.5	43053.	5395.5
#2	3707.4	42943.	5342.7

Sample Name: ICSAB-1143549 Acquired: 12/13/2011 14:16:14 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0576**	**504.72**	**1.9645**	**1.8868**	**.47527**	**.46545**	**1.0229**	**448.72**	**1.0103**	**.45842**	**.47756**	**.52484**
Stddev	.0010	.70	.0003	.0006	.00166	.00091	.0010	2.60	.0020	.00115	.00035	.00029
%RSD	.09555	.13801	.01476	.03067	.34834	.19615	.09929	.57839	.19680	.25169	.07365	.05528
#1	1.0569	505.21	1.9643	1.8864	.47644	.46609	1.0236	450.56	1.0089	.45761	.47731	.52464
#2	1.0583	504.23	1.9647	1.8872	.47409	.46480	1.0221	446.89	1.0117	.45924	.47781	.52505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**182.23**	**50.148**	**1.0157**	**482.53**	**.47885**	**.92539**	**51.762**	**.89979**	**1.9034**	**.90271**	**.89133**	**.95843**
Stddev	.39	.180	.0029	1.14	.00025	.00081	.014	.00130	.0043	.00266	.01255	.00228
%RSD	.21436	.35854	.28588	.23678	.05221	.08744	.02643	.14482	.22431	.29452	1.4083	.23795
#1	182.50	50.275	1.0178	481.72	.47903	.92482	51.772	.89887	1.9003	.90083	.90021	.96005
#2	181.95	50.021	1.0137	483.34	.47868	.92596	51.752	.90071	1.9064	.90459	.88246	.95682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.7519**	**9.8195**	**21.014**	**8.8990**	**.96262**	**2.0536**	**.96321**	**8.4888**	F **-.02542**	**.47977**	**.93183**	**.96152**
Stddev	.0089	.0070	.015	.0192	.00163	.0022	.00072	.0204	.02003	.00221	.01097	.00490
%RSD	.18670	.07182	.07182	.21613	.16895	.10579	.07488	.24063	78.810	.45987	1.1770	.50999
#1	4.7582	9.8244	21.024	8.8854	.96377	2.0552	.96372	8.4743	-.01125	.48133	.93958	.96498
#2	4.7457	9.8145	21.003	8.9126	.96147	2.0521	.96270	8.5032	-.03958	.47821	.92407	.95805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									2.0000			
Range									-20.000%			

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3683.3**	**42559.**	**5391.6**
Stddev	2.1	61.	27.8
%RSD	.05608	.14414	.51598
#1	3684.7	42602.	5371.9
#2	3681.8	42515.	5411.3

Sample Name: LRA-1151381 Acquired: 12/13/2011 14:18:31 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9569**	**-.02857**	**9.5926**	**9.3247**	**11.630**	**-.00128**	**.00282**	**.02342**	**1.9620**	**4.8929**	**9.7978**	**10.071**	**490.82**
Stddev	.0016	.00209	.0369	.0171	.073	.00002	.00001	.01390	.0053	.0109	.0385	.102	.29
%RSD	.08137	7.3172	.38514	.18342	.62706	1.1848	.24090	59.371	.27134	.22321	.39261	1.0136	.05911
#1	1.9558	-.02709	9.6187	9.3368	11.682	-.00127	.00281	.03325	1.9657	4.9006	9.8250	9.9989	491.03
#2	1.9580	-.03005	9.5665	9.3126	11.578	-.00129	.00282	.01359	1.9582	4.8851	9.7706	10.143	490.62
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.13925**	**.00031**	**-.14305**	**9.4940**	**4.8402**	**.00067**	**9.7558**	**-.01599**	**9.7582**	**-.14462**	**-.01126**	**4.7209**	**48.766**
Stddev	.00774	.00094	.00288	.0089	.0135	.00169	.0387	.00090	.0369	.00159	.00086	.0201	.558
%RSD	5.5563	307.11	2.0158	.09361	.27795	251.94	.39676	5.6461	.37842	1.1019	7.6307	.42609	1.1436
#1	-.14473	.00097	-.14101	9.4878	4.8497	.00186	9.7831	-.01535	9.7843	-.14575	-.01187	4.7351	48.372
#2	-.13378	-.00036	-.14509	9.5003	4.8307	-.00052	9.7284	-.01663	9.7321	-.14349	-.01066	4.7066	49.161
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**104.36**	**-.01853**	**9.6997**	**-.00009**	**9.8280**	**4.7721**	**-.04384**	**9.7758**	**9.4792**	**-.00867**
Stddev	1.19	.00000	.0917	.00196	.0048	.0076	.00140	.0030	.0342	.00385
%RSD	1.1436	.00661	.94533	2207.0	.04902	.16005	3.2024	.03051	.36025	44.374
#1	103.52	-.01853	9.7645	-.00147	9.8314	4.7775	-.04483	9.7736	9.4551	-.01138
#2	105.20	-.01853	9.6348	.00130	9.8246	4.7667	-.04285	9.7779	9.5034	-.00595
Check ?	None	None	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4027.9**	**47870.**	**5484.3**
Stddev	18.1	187.	13.0
%RSD	.44903	.39008	.23738
#1	4015.1	48002.	5475.1
#2	4040.7	47738.	5493.5

Sample Name: CCVH-1169743 Acquired: 12/13/2011 14:21:09 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**49.381**	**-.00199**	**.01573**	**.00241**	**-.00010**	**.98085**	**.00300**	**-.00059**	**.00094**	**.00059**	**-.00081**	**49.792**
Stddev	.00002	.304	.00011	.00240	.00080	.00002	.00058	.00110	.00002	.00004	.00003	.00013	.389
%RSD	2.4333	.61627	5.5095	15.228	33.319	16.531	.05917	36.649	3.4758	4.5545	4.9912	16.336	.78133
#1	-.00064	49.166	-.00192	.01743	.00298	-.00009	.98126	.00222	-.00057	.00097	.00057	-.00071	49.517
#2	-.00067	49.597	-.00207	.01404	.00184	-.00011	.98044	.00377	-.00060	.00091	.00062	-.00090	50.067
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00425**	**.00316**	**-.00326**	**-.00087**	**.00045**	**245.85**	**.00092**	**.00005**	**.00013**	**4.7860**	**-.00071**	**.00378**	**.08942**
Stddev	.05753	.00086	.00003	.00009	.00020	.56	.00005	.00273	.00065	.0227	.00019	.00174	.04000
%RSD	1354.5	27.145	.79361	10.781	45.028	.22808	5.2601	6031.4	485.56	.47529	27.357	46.104	44.732
#1	-.03643	.00255	-.00325	-.00081	.00031	245.45	.00095	.00197	.00059	4.8021	-.00057	.00501	.11770
#2	.04492	.00376	-.00328	-.00094	.00060	246.25	.00088	-.00188	-.00032	4.7700	-.00085	.00255	.06114
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19136**	**.00243**	**.00195**	**4.8386**	**.00541**	**-.00454**	**9.9663**	**.00052**	**.00247**	**-.01260**
Stddev	.08560	.00099	.00061	.0051	.00004	.00106	.0025	.00007	.00001	.00077
%RSD	44.732	40.550	31.366	.10598	.69657	23.302	.02472	12.436	.57448	6.1022
#1	.25188	.00313	.00238	4.8423	.00544	-.00528	9.9680	.00057	.00246	-.01205
#2	.13083	.00174	.00152	4.8350	.00539	-.00379	9.9645	.00048	.00248	-.01314
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3989.4**	**46853.**	**5402.1**
Stddev	9.1	94.	21.3
%RSD	.22926	.20078	.39461
#1	3982.9	46787.	5417.2
#2	3995.9	46920.	5387.0

Sample Name: CCV-1169927 Acquired: 12/13/2011 14:23:30 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48615**	**.50792**	**.98582**	**.49936**	**.48529**	**.49512**	**.00098**	**4.9649**	**.49577**	**.50151**	**.50192**	**.49437**	**2.4493**
Stddev	.00159	.00151	.00231	.00108	.00039	.00153	.00063	.0062	.00033	.00015	.00063	.00060	.0059
%RSD	.32671	.29650	.23443	.21613	.08088	.30918	63.736	.12447	.06590	.03073	.12550	.12195	.24079
#1	.48727	.50899	.98419	.50012	.48557	.49620	.00143	4.9693	.49554	.50140	.50147	.49395	2.4535
#2	.48502	.50686	.98745	.49860	.48502	.49404	.00054	4.9606	.49600	.50162	.50236	.49480	2.4452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.657**	**.99613**	**19.608**	**.49153**	**.49899**	**4.9727**	**.50107**	**.97997**	**.98865**	**-.01593**	**.98047**	**.98136**	**4.9217**
Stddev	.090	.00464	.052	.00116	.00102	.0275	.00006	.00324	.00021	.00157	.00291	.00693	.0015
%RSD	.18134	.46588	.26655	.23609	.20495	.55261	.01164	.33083	.02089	9.8714	.29631	.70666	.03009
#1	49.721	.99941	19.645	.49235	.49827	4.9921	.50103	.97768	.98880	-.01481	.97841	.97646	4.9207
#2	49.593	.99284	19.571	.49071	.49971	4.9532	.50111	.98226	.98850	-.01704	.98252	.98627	4.9228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.533**	**1.0048**	**.49599**	**-.00117**	**.50032**	**1.0012**	**.00773**	**.49041**	**.49774**	**.48915**
Stddev	.003	.0040	.00038	.00121	.00013	.0047	.00006	.00060	.00075	.00038
%RSD	.03009	.39972	.07734	103.40	.02531	.46852	.81633	.12265	.15041	.07810
#1	10.530	1.0020	.49627	-.00032	.50041	.99790	.00777	.48999	.49827	.48888
#2	10.535	1.0077	.49572	-.00203	.50023	1.0045	.00768	.49084	.49721	.48942
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4072.4**	**48522.**	**5523.4**
Stddev	1.8	93.	25.7
%RSD	.04333	.19240	.46448
#1	4073.6	48456.	5505.2
#2	4071.2	48588.	5541.5

Sample Name: CCB Acquired: 12/13/2011 14:25:41 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00151**	**-.00238**	F **.00516**	**.00007**	**.00014**	**-.00114**	**-.00143**	**.00007**	**.00019**	**-.00004**	**.00043**	**.00028**
Stddev	.00006	.00070	.00011	.00030	.00001	.00003	.00204	.00173	.00010	.00003	.00000	.00010	.00102
%RSD	358.08	45.891	4.4482	5.8789	10.149	19.382	179.25	120.54	129.70	15.026	7.6365	22.953	369.93
#1	.00006	-.00102	-.00231	.00495	.00007	.00016	-.00257	-.00021	.00014	.00017	-.00004	.00050	.00100
#2	-.00002	-.00201	-.00246	.00538	.00008	.00012	.00030	-.00265	.00001	.00021	-.00004	.00036	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00312									
Low Limit				-.00312									

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04193**	**.00039**	**.00214**	**.00008**	**.00051**	**-.01253**	**.00005**	**.00082**	**.00090**	**.00047**	**.00125**	**-.00314**	**-.00998**
Stddev	.01023	.00114	.00042	.00003	.00004	.00938	.00013	.00122	.00181	.00423	.00107	.00127	.00335
%RSD	24.405	295.86	19.529	30.844	7.9407	74.866	258.38	149.01	200.17	895.61	86.037	40.557	33.598
#1	.03469	-.00042	.00184	.00010	.00048	-.01917	-.00004	.00168	.00218	.00347	.00049	-.00224	-.01235
#2	.04916	.00119	.00243	.00007	.00054	-.00590	.00015	-.00004	-.00037	-.00252	.00201	-.00404	-.00761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02136**	**-.00010**	**.00009**	**-.00003**	**.00052**	**-.00019**	**-.02014**	**-.00026**	**.00189**	**.00045**
Stddev	.00718	.00007	.00004	.00052	.00003	.00066	.00807	.00044	.00006	.00066
%RSD	33.598	74.005	38.064	1669.0	5.8968	348.25	40.056	170.18	3.1435	144.99
#1	-.02643	-.00015	.00012	.00034	.00054	.00028	-.02584	-.00057	.00185	-.00001
#2	-.01628	-.00005	.00007	-.00040	.00050	-.00066	-.01443	.00005	.00194	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4072.7**	**49252.**	**5378.5**
Stddev	2.4	174.	5.0
%RSD	.05885	.35377	.09203
#1	4074.4	49129.	5375.0
#2	4071.0	49376.	5382.0

Sample Name: CCVL1171013 Acquired: 12/13/2011 14:28:08 Type: QC
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00994**	**.10424**	**.01561**	**.10876**	**.00982**	**.00101**	**.11081**	**.20202**	**.00504**	**.01077**	**.01042**	**.01484**	**.10114**
Stddev	.00025	.00015	.00050	.00017	.00016	.00001	.00063	.00345	.00007	.00009	.00000	.00023	.00280
%RSD	2.4969	.14859	3.2168	.15586	1.6805	.76857	.56659	1.7071	1.3795	.85323	.02131	1.5212	2.7723
#1	.00976	.10413	.01597	.10888	.00993	.00101	.11037	.20446	.00509	.01071	.01042	.01468	.10312
#2	.01011	.10435	.01526	.10864	.00970	.00100	.11126	.19958	.00499	.01084	.01043	.01500	.09915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1686**	**.01247**	**.20942**	**.01035**	**.02035**	**1.0370**	**.04150**	**3.1015**	**.00894**	**-.00355**	**.00958**	**.01551**	**.51230**
Stddev	.0246	.00015	.00349	.00004	.00008	.0016	.00039	.0096	.00014	.00318	.00101	.00129	.01750
%RSD	.77774	1.2366	1.6667	.40438	.41168	.15812	.95134	.30861	1.5774	89.488	10.513	8.3287	3.4164
#1	3.1861	.01258	.21189	.01032	.02041	1.0381	.04122	3.1082	.00904	-.00130	.00886	.01643	.52468
#2	3.1512	.01236	.20695	.01038	.02029	1.0358	.04178	3.0947	.00884	-.00580	.01029	.01460	.49993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0963**	**.10687**	**.01019**	**.01542**	**.01069**	**.01717**	**.04823**	**.00962**	**.02245**	**.01642**
Stddev	.0375	.00056	.00002	.00110	.00026	.00038	.01875	.00034	.00014	.00071
%RSD	3.4164	.52008	.24310	7.1599	2.4662	2.1943	38.884	3.5218	.63817	4.3355
#1	1.1228	.10726	.01018	.01464	.01088	.01744	.06149	.00938	.02235	.01592
#2	1.0698	.10647	.01021	.01621	.01051	.01690	.03497	.00986	.02255	.01693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4206.5**	**50116.**	**5544.5**
Stddev	14.0	25.	13.5
%RSD	.33303	.05074	.24295
#1	4216.4	50134.	5554.0
#2	4196.6	50098.	5535.0

Sample Name: xmb 280-99286/1-a Acquired: 12/13/2011 14:30:32 Type: Unk
Method: 6500_025(v23) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99286 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00304**	**-.00021**	**.00282**	**.00020**	**.00002**	**.00281**	**.00145**	**.00007**	**.00012**
Stddev	.00007	.00050	.00166	.00015	.00006	.00002	.00124	.00093	.00010	.00017
%RSD	9696.9	16.370	797.67	5.2553	30.696	80.297	44.102	64.015	146.12	138.54
#1	.00005	-.00339	.00097	.00272	.00016	.00004	.00194	.00211	.00014	.00024
#2	-.00005	-.00268	-.00138	.00293	.00024	.00001	.00369	.00079	.00000	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00028**	**.00544**	**.01020**	**.00070**	**.00085**	**.00007**	**-.00021**	**-.02261**	**-.00021**
Stddev	.00001	.00005	.00131	.03496	.00004	.00107	.00003	.00008	.00361	.00013
%RSD	72.593	17.930	24.084	342.72	5.2196	126.28	36.041	37.149	15.945	60.045
#1	-.00003	-.00024	.00452	-.01452	.00072	.00160	.00005	-.00026	-.02516	-.00012
#2	-.00001	-.00032	.00637	.03492	.00067	.00009	.00009	-.00015	-.02006	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00121**	**.00009**	**.00126**	**-.00061**	**.00076**	W **-.00793**	W **-.01696**	**-.00014**	**.00006**	**-.00035**
Stddev	.00034	.00106	.00218	.00028	.00247	.00915	.01957	.00092	.00000	.00029
%RSD	28.326	1167.0	173.23	46.308	324.33	115.39	115.39	649.46	4.7576	83.285
#1	-.00146	-.00066	.00280	-.00041	.00251	-.00146	-.00312	-.00079	.00006	-.00014
#2	-.00097	.00084	-.00028	-.00081	-.00098	-.01439	-.03080	.00051	.00006	-.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit						.00500	.00500			
Low Limit						-.00500	-.00500			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00055**	**-.01964**	**.00008**	W **.00730**	**.00034**
Stddev	.00024	.00118	.01771	.00024	.00006	.00079
%RSD	581.28	214.96	90.168	321.70	.82994	230.40
#1	.00021	-.00029	-.03216	-.00010	.00734	-.00022
#2	-.00013	.00138	-.00712	.00025	.00725	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit					.00500	
Low Limit					-.00500	

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4131.7**	**49077.**	**5508.0**
Stddev	5.4	261.	2.1
%RSD	.13038	.53122	.03821
#1	4135.5	48893.	5509.5
#2	4127.9	49261.	5506.5

Sample Name: 280-23473-m-1-b@10 Acquired: 12/13/2011 14:32:58 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99286 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00349**	**.00190**	**.14944**	**.03838**	**-.00002**	**-.00082**	**148.70**	**.00018**	**-.00010**
Stddev	.00006	.00058	.00067	.00062	.00021	.00002	.00054	.21	.00012	.00010
%RSD	47.679	16.590	35.100	.41200	.54346	94.030	65.319	.14029	65.837	97.768
#1	-.00017	.00308	.00143	.14988	.03852	-.00001	-.00120	148.56	.00026	-.00017
#2	-.00008	.00390	.00237	.14901	.03823	-.00003	-.00044	148.85	.00010	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00061**	**3.4798**	**11.365**	**.00860**	**77.482**	**1.4685**	**.00017**	**359.99**	**.00142**
Stddev	.00010	.00005	.0014	.022	.00022	.021	.0018	.00017	.71	.00015
%RSD	17.046	8.6703	.04117	.19027	2.5111	.02676	.12005	103.38	.19656	10.646
#1	.00067	.00064	3.4808	11.380	.00876	77.467	1.4697	.00029	359.49	.00152
#2	.00053	.00057	3.4788	11.349	.00845	77.497	1.4672	.00005	360.49	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15243**	**-.00041**	**33.382**	**-.00369**	**-.00205**	**2.3257**	**4.9769**	**-.00057**	**1.0344**	**-.00262**
Stddev	.00190	.00074	.038	.00003	.00436	.0090	.0192	.00084	.0008	.00140
%RSD	1.2482	180.72	.11479	.88331	212.88	.38518	.38518	147.77	.07743	53.601
#1	.15377	.00011	33.355	-.00371	-.00514	2.3320	4.9905	-.00116	1.0350	-.00162
#2	.15108	-.00094	33.409	-.00366	.00104	2.3193	4.9633	.00003	1.0338	-.00361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00125**	**.00155**	**-.01327**	**.00078**	**.00312**	**.00119**
Stddev	.00013	.00009	.01168	.00052	.00028	.00047
%RSD	10.493	5.9503	87.976	66.799	9.0019	39.636
#1	.00116	.00161	-.00502	.00115	.00293	.00153
#2	.00134	.00148	-.02153	.00041	.00332	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3747.6**	**43488.**	**5254.7**
Stddev	7.1	112.	8.8
%RSD	.18869	.25716	.16789
#1	3742.6	43567.	5261.0
#2	3752.6	43409.	5248.5

Sample Name: mb 280-99248/1-a Acquired: 12/13/2011 14:35:27 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99248 SOIL 6010B WC

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00278**	**-.00042**	**.00221**	**.00049**	**-.00001**	**.00280**	**.09693**	**.00002**	**.00018**
Stddev	.00067	.00139	.00182	.00007	.00018	.00007	.00013	.00043	.00006	.00008
%RSD	580.70	49.937	434.97	3.3347	36.700	1218.4	4.7949	.44766	329.63	41.608
#1	.00036	.00376	-.00170	.00216	.00062	-.00005	.00271	.09662	.00006	.00013
#2	-.00059	.00180	.00087	.00226	.00036	.00004	.00290	.09724	-.00003	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00072**	**.01133**	**.05250**	**.00123**	**.02189**	**.00023**	**.00007**	**.36988**	**.00040**
Stddev	.00007	.00014	.00074	.00684	.00271	.00065	.00000	.00015	.00197	.00010
%RSD	29.147	19.071	6.5509	13.024	219.50	2.9800	1.2881	203.37	.53151	26.106
#1	.00031	.00081	.01186	.05734	-.00068	.02235	.00023	-.00003	.37127	.00047
#2	.00020	.00062	.01081	.04767	.00315	.02143	.00023	.00018	.36849	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **.00533**	**.00079**	F **.03798**	**-.00057**	**.00017**	F **.01618**	F **.03463**	**.00675**	**.00032**	**-.00041**
Stddev	.00151	.00086	.00323	.00143	.00140	.00841	.01800	.00010	.00002	.00080
%RSD	28.302	108.61	8.5117	250.38	821.77	51.983	51.983	1.5451	5.6287	193.76
#1	.00640	.00139	.04027	-.00158	.00116	.01024	.02190	.00682	.00031	.00015
#2	.00427	.00018	.03570	.00044	-.00082	.02213	.04736	.00668	.00034	-.00098
Check ?	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.00500		.01000			.01000	.01000			
Low Limit	-.00500		-.01000			-.01000	-.01000			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00000**	**.00443**	**-.00007**	**.00285**	**.00091**
Stddev	.00006	.00050	.00410	.00006	.00042	.00151
%RSD	33.202	54469.	92.462	81.362	14.806	167.13
#1	.00021	.00035	.00153	-.00011	.00255	-.00016
#2	.00013	-.00035	.00733	-.00003	.00315	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4126.0**	**49989.**	**5495.1**
Stddev	12.2	192.	25.6
%RSD	.29624	.38485	.46610
#1	4134.6	50125.	5477.0
#2	4117.3	49853.	5513.2

Sample Name: lcs 280-99248/2-a Acquired: 12/13/2011 14:37:53 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99248 SOIL 6010B WC

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04776**	**1.8881**	**.96375**	**.93312**	**1.8648**	**.04775**	**1.9732**	**46.803**	**.09561**	**.47293**
Stddev	.00033	.0045	.00517	.00145	.0018	.00027	.0060	.003	.00028	.00070
%RSD	.69662	.23762	.53599	.15488	.09707	.55931	.30566	.00625	.29187	.14781
#1	.04800	1.8913	.96010	.93210	1.8635	.04756	1.9775	46.801	.09542	.47243
#2	.04753	1.8850	.96741	.93415	1.8661	.04793	1.9689	46.805	.09581	.47342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19441**	**.23898**	**1.0313**	**48.230**	**.96118**	**47.056**	**.47423**	**.94711**	**50.955**	**.48140**
Stddev	.00037	.00201	.0031	.152	.00036	.406	.00282	.00111	.370	.00155
%RSD	.19097	.84221	.29576	.31437	.03739	.86298	.59492	.11744	.72643	.32227
#1	.19415	.24041	1.0335	48.337	.96144	47.344	.47623	.94633	50.693	.48030
#2	.19467	.23756	1.0292	48.122	.96093	46.769	.47224	.94790	51.216	.48250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7359**	**.47407**	**.03040**	**.46273**	**1.8592**	**1.2920**	F **2.7648**	**1.9024**	**.96248**	**.96577**
Stddev	.0116	.00083	.00055	.00387	.0122	.0180	.0385	.0038	.00009	.00757
%RSD	.11944	.17506	1.7959	.83557	.65734	1.3915	1.3915	.19969	.00956	.78412
#1	9.7276	.47348	.03002	.46000	1.8678	1.3047	2.7920	1.8997	.96255	.97113
#2	9.7441	.47466	.03079	.46547	1.8505	1.2792	2.7376	1.9051	.96242	.96042
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							14.980			
Low Limit							2.1400			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97091**	**1.8941**	**2.0462**	**.47305**	**.47439**	**.46818**
Stddev	.00678	.0005	.0131	.00183	.00255	.00017
%RSD	.69803	.02622	.64188	.38655	.53855	.03603
#1	.97570	1.8938	2.0369	.47434	.47620	.46830
#2	.96612	1.8945	2.0555	.47176	.47258	.46806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3964.5**	**47219.**	**5423.8**
Stddev	14.2	152.	31.5
%RSD	.35726	.32120	.57994
#1	3974.5	47112.	5401.6
#2	3954.5	47327.	5446.1

Sample Name: 280-23522-b-1-a@5 Acquired: 12/13/2011 14:40:02 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99248 SOIL 6010B WC

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**14.447**	**.00615**	**.00361**	**.13799**	**.00063**	**.00024**	**9.9017**	**.00006**	**.01370**
Stddev	.00009	.051	.00068	.00016	.00047	.00003	.00064	.0198	.00010	.00027
%RSD	14.022	.35203	11.083	4.5704	.33988	4.2065	269.61	.19966	180.29	1.9878
#1	-.00069	14.483	.00663	.00372	.13766	.00065	.00069	9.9157	.00013	.01351
#2	-.00057	14.411	.00567	.00349	.13832	.00062	-.00022	9.8877	-.00002	.01389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01682**	**.02516**	**39.641**	**2.5615**	**.01554**	**8.2838**	**.59298**	**.00080**	**.52488**	**.01906**
Stddev	.00014	.00004	.015	.0356	.00236	.0056	.00107	.00000	.01486	.00022
%RSD	.81650	.16596	.03849	1.3914	15.184	.06814	.18038	.54495	2.8305	1.1317
#1	.01672	.02513	39.652	2.5867	.01721	8.2798	.59374	.00081	.51437	.01921
#2	.01691	.02519	39.630	2.5363	.01387	8.2878	.59222	.00080	.53538	.01891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4998**	**.00831**	**.08096**	**.00003**	**.00001**	**.65154**	**1.3943**	**-.00780**	**.04309**	**.00799**
Stddev	.0058	.00055	.00218	.00170	.00335	.03149	.0674	.00025	.00002	.00079
%RSD	.38511	6.5895	2.6867	6681.9	53325.	4.8328	4.8328	3.1825	.05563	9.9203
#1	1.4957	.00792	.07942	.00123	.00238	.62928	1.3467	-.00763	.04311	.00855
#2	1.5039	.00870	.08250	-.00118	-.00236	.67381	1.4420	-.00798	.04307	.00743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.4562**	**.00002**	**-.04160**	**.10007**	**.08222**	**.04305**
Stddev	.0079	.00163	.02121	.00124	.00012	.00026
%RSD	.22788	7480.1	50.985	1.2368	.14142	.59454
#1	3.4618	.00117	-.02660	.10095	.08214	.04323
#2	3.4507	-.00113	-.05659	.09920	.08230	.04287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4180.8**	**49837.**	**5547.9**
Stddev	2.5	48.	23.2
%RSD	.05960	.09590	.41876
#1	4182.6	49871.	5531.5
#2	4179.0	49803.	5564.3

Sample Name: 280-23522-b-1-aSD@25 Acquired: 12/13/2011 14:42:22 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99248 SOIL 6010B WC

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	W **2.9314**	**.00273**	**.00162**	**.02828**	**.00012**	**.00085**	**2.0288**	**.00012**	**.00280**
Stddev	.00009	.0063	.00352	.00069	.00010	.00001	.00094	.0011	.00013	.00018
%RSD	30.585	.21417	128.90	42.798	.36743	9.7128	109.74	.05412	101.74	6.4562
#1	-.00035	2.9270	.00522	.00212	.02821	.00011	.00019	2.0280	.00021	.00293
#2	-.00023	2.9358	.00024	.00113	.02836	.00013	.00152	2.0296	.00003	.00267
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		500.00								
Low Limit		3.2000								

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00355**	**.00505**	**8.1061**	**.51187**	**.00366**	**1.6946**	**.12115**	**-.00020**	**.10193**	**.00381**
Stddev	.00002	.00023	.0583	.00331	.00172	.0042	.00015	.00016	.00068	.00012
%RSD	.43593	4.5214	.71940	.64632	47.002	.24982	.12222	83.211	.66232	3.0515
#1	.00354	.00521	8.0649	.50953	.00487	1.6976	.12125	-.00031	.10145	.00372
#2	.00356	.00489	8.1473	.51421	.00244	1.6916	.12104	-.00008	.10240	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29862**	**.00160**	**.01066**	**-.00147**	**.00016**	**.12377**	**.26487**	**-.00225**	**.00877**	**.00268**
Stddev	.00056	.00089	.00723	.00039	.00263	.00461	.00986	.00004	.00012	.00158
%RSD	.18786	55.655	67.833	26.717	1668.8	3.7223	3.7223	1.9064	1.3271	59.025
#1	.29823	.00222	.01578	-.00175	.00201	.12703	.27184	-.00228	.00869	.00379
#2	.29902	.00097	.00555	-.00119	-.00170	.12051	.25790	-.00222	.00885	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.69728**	**.00090**	**-.01097**	**.01957**	**.01830**	**.00986**
Stddev	.00171	.00012	.00192	.00008	.00056	.00119
%RSD	.24526	13.575	17.501	.43093	3.0792	12.095
#1	.69607	.00081	-.00961	.01951	.01790	.01070
#2	.69848	.00098	-.01233	.01963	.01869	.00902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4140.0**	**49885.**	**5400.3**
Stddev	2.9	12.	49.0
%RSD	.06945	.02364	.90786
#1	4142.0	49877.	5435.0
#2	4137.9	49893.	5365.6

Sample Name: 280-23522-b-1-b du@5 Acquired: 12/13/2011 14:44:44 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99248 SOIL 6010B WC

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**16.194**	**.00539**	**.00227**	**.15722**	**.00070**	**.00098**	**11.272**	**.00009**	**.01553**
Stddev	.00028	.012	.00081	.00018	.00023	.00008	.00170	.009	.00000	.00008
%RSD	43.106	.07420	15.078	8.0459	.14433	10.905	173.42	.07937	3.4803	.54692
#1	-.00086	16.203	.00596	.00214	.15738	.00075	.00218	11.266	.00009	.01559
#2	-.00046	16.186	.00481	.00240	.15706	.00064	-.00022	11.278	.00009	.01547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01705**	**.02767**	**47.235**	**2.7750**	**.01648**	**9.4061**	**.68796**	**.00033**	**.60604**	**.02263**
Stddev	.00005	.00035	.211	.0277	.00086	.0152	.00167	.00022	.00626	.00030
%RSD	.29171	1.2500	.44627	.99756	5.2404	.16179	.24204	66.453	1.0324	1.3227
#1	.01708	.02743	47.086	2.7946	.01709	9.3953	.68678	.00018	.60162	.02284
#2	.01701	.02792	47.384	2.7555	.01587	9.4168	.68914	.00049	.61047	.02242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.7096**	**.00945**	**.09948**	**-.00179**	**.00377**	**.40013**	**.85628**	**-.00894**	**.05104**	**.00713**
Stddev	.0008	.00062	.00311	.00055	.00195	.00803	.01718	.00014	.00004	.00015
%RSD	.04464	6.5565	3.1281	30.984	51.723	2.0065	2.0065	1.5117	.07084	2.1454
#1	1.7102	.00988	.09728	-.00218	.00239	.40581	.86843	-.00904	.05107	.00724
#2	1.7091	.00901	.10168	-.00140	.00515	.39445	.84413	-.00885	.05102	.00702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.0516**	**.00115**	**-.03798**	**.11604**	**.09336**	**.05079**
Stddev	.0111	.00095	.00803	.00013	.00031	.00055
%RSD	.27431	82.695	21.138	.11539	.33534	1.0758
#1	4.0438	.00183	-.04366	.11595	.09313	.05040
#2	4.0595	.00048	-.03230	.11614	.09358	.05118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4177.9**	**50198.**	**5571.3**
Stddev	11.6	47.	7.0
%RSD	.27685	.09289	.12558
#1	4169.8	50231.	5566.4
#2	4186.1	50165.	5576.3

Sample Name: 280-23522-b-1-c ms@5 Acquired: 12/13/2011 14:47:04 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99248 SOIL 6010B WC

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00882**	**20.520**	**.18896**	**.18134**	**.53061**	**.01025**	F **.39454**	**23.638**	**.01876**	**.11099**
Stddev	.00046	.028	.00050	.00051	.00000	.00005	.00030	.062	.00016	.00086
%RSD	5.2273	.13724	.26216	.27951	.00014	.48518	.07541	.26077	.86502	.77340
#1	.00915	20.540	.18932	.18170	.53061	.01028	.39433	23.682	.01887	.11038
#2	.00850	20.500	.18861	.18099	.53061	.01021	.39475	23.595	.01864	.11160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06106**	**.07361**	**48.562**	**12.858**	**.21193**	**19.596**	**.82837**	**.18444**	F **10.535**	**11.513**
Stddev	.00050	.00076	.061	.007	.00213	.047	.00157	.00056	.020	.091
%RSD	.82474	1.0356	.12517	.05203	1.0041	.24180	.18959	.30194	.18549	.79345
#1	.06070	.07307	48.605	12.863	.21343	19.629	.82948	.18405	10.549	11.448
#2	.06141	.07415	48.519	12.853	.21042	19.562	.82726	.18484	10.521	11.578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit									10.000	
Low Limit									-1.0000	

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11934**	W **3.3657**	**.10487**	**.08862**	**.05170**	**.35368**	**.74289**	**1.5898**	**.33017**	**.25311**
Stddev	.00070	.0139	.00070	.00833	.00101	.00156	.00781	.0167	.00049	.00027
%RSD	.58933	.41172	.66768	9.3981	1.9614	.44190	1.0510	1.0510	.14904	.10726
#1	.11884	3.3559	.10536	.09451	.05242	.35258	.74841	1.6016	.32982	.25330
#2	.11984	3.3755	.10437	.08273	.05098	.35479	.73737	1.5780	.33052	.25292
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2.0000								
Low Limit		-1.0000								

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	283.730 {119}	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19720**	**4.1930**	**.37761**	**.36033**	**.21741**	**.18767**	**.14727**
Stddev	.00172	.0059	.00130	.00222	.00062	.00059	.00042
%RSD	.87460	.13971	.34542	.61578	.28635	.31204	.28564
#1	.19598	4.1972	.37669	.36190	.21785	.18726	.14698
#2	.19842	4.1889	.37854	.35877	.21697	.18809	.14757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4144.9**	**49120.**	**5498.2**
Stddev	12.8	88.	3.1
%RSD	.30882	.17880	.05610
#1	4154.0	49058.	5500.4
#2	4135.9	49182.	5496.0

Sample Name: CCVH-1169743 Acquired: 12/13/2011 14:49:20 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**49.316**	**-.00230**	**.00190**	**.00062**	**-.00023**	**.96525**	**.00058**	**-.00087**	**.00097**	**.00034**	**-.00142**
Stddev	.00009	.039	.00014	.00044	.00000	.00012	.00144	.00137	.00012	.00001	.00006	.00022
%RSD	8.2245	.07862	6.1498	23.030	.72959	54.346	.14970	234.90	13.446	.86532	18.472	15.615
#1	-.00100	49.289	-.00240	.00221	.00062	-.00014	.96423	.00156	-.00095	.00098	.00038	-.00127
#2	-.00112	49.343	-.00220	.00159	.00061	-.00032	.96627	-.00039	-.00078	.00096	.00029	-.00158
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None
Value												
Range												

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.857**	**.03617**	**.00237**	**-.00323**	**-.00152**	**-.00178**	**245.37**	**.00079**	**.00248**	**-.00055**	W **4.6515**	**-.00222**
Stddev	.547	.02355	.00140	.00110	.00002	.00027	.59	.00017	.00190	.00121	.0039	.00012
%RSD	1.0965	65.099	59.076	34.182	1.6393	15.113	.24194	22.041	76.506	219.25	.08469	5.6069
#1	49.471	.01952	.00335	-.00245	-.00154	-.00197	244.95	.00067	.00383	-.00140	4.6487	-.00214
#2	50.244	.05282	.00138	-.00401	-.00150	-.00159	245.79	.00092	.00114	.00030	4.6543	-.00231
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None	None	None	Chk Warn	None
Value											5.0000	
Range											-5.0000%	

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00294**	**.01203**	**.02575**	**.00183**	**.00038**	**4.8000**	**.00371**	**-.00367**	**9.8729**	**-.00025**	**.00177**	**-.01472**
Stddev	.00053	.00323	.00692	.00086	.00003	.0318	.00004	.00023	.0359	.00021	.00013	.00027
%RSD	17.873	26.871	26.871	46.955	7.2238	.66224	.98513	6.1727	.36386	80.712	7.1518	1.8560
#1	.00332	.01432	.03064	.00122	.00040	4.8225	.00374	-.00383	9.8983	-.00011	.00168	-.01492
#2	.00257	.00975	.02086	.00244	.00036	4.7775	.00368	-.00351	9.8475	-.00040	.00186	-.01453
Check ?	None	None	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value												
Range												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3969.2**	**46771.**	**5354.3**
Stddev	6.9	356.	2.2
%RSD	.17410	.76128	.04146
#1	3964.3	46520.	5352.7
#2	3974.1	47023.	5355.9

Sample Name: CCV-1169927 Acquired: 12/13/2011 14:51:41 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48057**	**.50330**	**.97093**	**.48519**	**.48506**	**.49380**	**.00274**	**4.9885**	**.49150**	**.49762**	**.49779**	**.48942**	**2.4546**
Stddev	.00087	.00014	.00384	.00068	.00093	.00051	.00103	.0019	.00101	.00053	.00039	.00059	.0030
%RSD	.18122	.02751	.39581	.14096	.19214	.10374	37.581	.03882	.20569	.10569	.07931	.11995	.12340
#1	.48118	.50321	.96821	.48471	.48440	.49344	.00346	4.9871	.49079	.49725	.49752	.48984	2.4525
#2	.47995	.50340	.97365	.48567	.48572	.49416	.00201	4.9898	.49222	.49799	.49807	.48901	2.4568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.193**	**1.0036**	**19.670**	**.48781**	**.49384**	**4.9831**	**.49819**	**.97215**	**.97572**	**-.01834**	**.96542**	**.96430**	**4.9472**
Stddev	.159	.0002	.049	.00041	.00095	.0009	.00041	.00178	.00101	.00123	.00236	.00277	.0238
%RSD	.31617	.01705	.25105	.08477	.19294	.01721	.08254	.18342	.10374	6.6891	.24431	.28716	.48091
#1	50.081	1.0034	19.705	.48810	.49316	4.9837	.49790	.97089	.97643	-.01748	.96375	.96626	4.9304
#2	50.306	1.0037	19.635	.48752	.49451	4.9825	.49848	.97341	.97500	-.01921	.96709	.96234	4.9640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.587**	**.99764**	**.49877**	**-.00039**	**.49970**	**.99023**	**-.01037**	**.48520**	**.49742**	**.48799**
Stddev	.051	.00020	.00088	.00038	.00077	.00248	.00654	.00007	.00001	.00087
%RSD	.48091	.02024	.17732	98.995	.15342	.25011	63.039	.01402	.00128	.17852
#1	10.551	.99778	.49814	-.00012	.49915	.98848	-.00575	.48515	.49742	.48737
#2	10.623	.99750	.49939	-.00066	.50024	.99198	-.01500	.48525	.49743	.48861
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4051.6**	**48228.**	**5394.7**
Stddev	7.0	79.	23.4
%RSD	.17357	.16352	.43377
#1	4046.6	48172.	5411.3
#2	4056.6	48283.	5378.2

Sample Name: CCB Acquired: 12/13/2011 14:53:52 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**-.00176**	**.00193**	**.00066**	**.00017**	**.00004**	**-.00154**	**-.00095**	**-.00004**	**-.00007**	**.00005**	**-.00026**	**.00197**
Stddev	.00024	.00086	.00030	.00003	.00020	.00004	.00182	.00418	.00004	.00016	.00023	.00007	.00014
%RSD	66.012	48.730	15.515	4.2075	112.56	111.48	118.11	440.17	123.78	221.56	428.26	27.660	7.0019
#1	-.00054	-.00116	.00215	.00068	.00031	.00001	-.00025	.00201	.00000	-.00019	-.00011	-.00031	.00187
#2	-.00020	-.00237	.00172	.00064	.00004	.00007	-.00283	-.00391	-.00007	.00004	.00022	-.00021	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02395**	**.00197**	**-.00091**	**.00006**	**.00047**	**-.01457**	**-.00027**	**-.00130**	**.00024**	**-.00755**	**.00069**	**.00226**	**-.00637**
Stddev	.02642	.00290	.00049	.00003	.00025	.00192	.00019	.00012	.00022	.00380	.00076	.00158	.00668
%RSD	110.31	147.08	53.608	45.160	52.764	13.207	70.027	9.5320	91.627	50.306	111.44	69.861	104.78
#1	.04263	.00402	-.00056	.00008	.00029	-.01593	-.00013	-.00121	.00040	-.00486	.00015	.00337	-.00165
#2	.00527	-.00008	-.00125	.00004	.00064	-.01321	-.00040	-.00139	.00008	-.01024	.00123	.00114	-.01109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01364**	**-.00108**	**.00003**	**-.00077**	**.00051**	**.00023**	**.00442**	**.00003**	**.00128**	**.00081**
Stddev	.01429	.00015	.00002	.00013	.00039	.00122	.00719	.00019	.00013	.00042
%RSD	104.78	14.243	86.897	16.417	76.121	535.65	162.51	608.61	10.046	51.704
#1	-.00353	-.00097	.00001	-.00086	.00024	.00109	-.00066	-.00010	.00138	.00111
#2	-.02374	-.00119	.00005	-.00068	.00079	-.00063	.00950	.00017	.00119	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4037.2**	**48906.**	**5291.7**
Stddev	38.2	58.	6.7
%RSD	.94732	.11766	.12654
#1	4064.2	48946.	5296.5
#2	4010.1	48865.	5287.0

Sample Name: CCVL1171013 Acquired: 12/13/2011 14:56:18 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .00557	F .06209	F .00811	.10356	F .00594	F .00059	F .06981	F .12315	F .00299	F .00641	F .00636	F .00876	F .06134
Stddev	.00082	.00043	.00070	.00010	.00022	.00003	.00159	.00002	.00015	.00009	.00007	.00012	.00048
%RSD	14.784	.68558	8.5745	.09896	3.7519	5.0361	2.2779	.01582	4.9554	1.3540	1.0996	1.3914	.77692
#1	.00615	.06240	.00860	.10349	.00578	.00057	.06868	.12317	.00289	.00635	.00641	.00885	.06168
#2	.00499	.06179	.00761	.10364	.00609	.00061	.07093	.12314	.00310	.00647	.00631	.00867	.06101
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.01000	.10000	.01500		.01000	.00100	.10000	.20000	.00500	.01000	.01000	.01500	.10000
Range	-30.000%	-30.000%	-30.000%		-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.8799	.00758	F .12529	F .00626	.02029	F .61975	F .02527	3.0598	F .00518	-.00576	.00911	F .01037	.50408
Stddev	.0172	.00114	.00103	.00002	.00006	.00161	.00020	.0031	.00079	.00645	.00101	.00036	.00563
%RSD	.91719	15.007	.82419	.31215	.30696	.26003	.80789	.10043	15.316	112.03	11.097	3.4797	1.1168
#1	1.8677	.00838	.12456	.00625	.02024	.62089	.02513	3.0619	.00462	-.00120	.00839	.01062	.50010
#2	1.8921	.00677	.12602	.00628	.02033	.61861	.02542	3.0576	.00575	-.01032	.00982	.01011	.50806
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	None	Chk Pass	Chk Fail	Chk Pass
Value	3.0000		.20000	.01000		1.0000	.04000		.00900			.01500	
Range	-30.000%		-30.000%	-30.000%		-30.000%	-30.000%		-30.000%			-30.000%	

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0787	.10493	F .00614	F .00906	.01065	.01147	F .03737	F .00560	.01423	.01665
Stddev	.0121	.00100	.00016	.00107	.00010	.00096	.02201	.00030	.00012	.00067
%RSD	1.1168	.94851	2.5379	11.823	.91613	8.3574	58.892	5.4171	.84618	4.0085
#1	1.0702	.10564	.00603	.00830	.01058	.01215	.05294	.00539	.01415	.01617
#2	1.0872	.10423	.00625	.00982	.01072	.01080	.02181	.00582	.01432	.01712
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
Value			.01000	.01500			.06000	.01000		
Range			-30.000%	-30.000%			-30.000%	-30.000%		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	4138.0	49586.	5398.9
Stddev	8.2	217.	24.3
%RSD	.19814	.43760	.44941
#1	4143.8	49739.	5416.1
#2	4132.2	49433.	5381.8

Sample Name: mb 280-99395/1-a Acquired: 12/13/2011 14:58:41 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99395 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00015**	**-.00074**	**-.00015**	**.00036**	**-.00002**	**-.00013**	**.00268**	**.00007**	**.00019**
Stddev	.00042	.00062	.00040	.00033	.00013	.00005	.00291	.00036	.00007	.00009
%RSD	1084.9	412.28	53.705	221.17	35.295	204.75	2268.2	13.335	98.954	48.265
#1	-.00034	-.00059	-.00102	-.00038	.00045	.00001	.00193	.00293	.00011	.00026
#2	.00026	.00029	-.00046	.00008	.00027	-.00006	-.00219	.00243	.00002	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00005**	**.00441**	**.00790**	**.00015**	**-.00090**	**.00013**	**.00000**	**-.01226**	**-.00016**
Stddev	.00011	.00015	.00190	.04591	.00208	.00102	.00004	.00017	.00851	.00011
%RSD	97.483	286.34	43.073	580.89	1380.2	113.41	30.263	7743.9	69.440	67.303
#1	.00003	-.00005	.00575	.04037	.00162	-.00161	.00010	.00013	-.00624	-.00024
#2	.00019	.00016	.00307	-.02456	-.00132	-.00018	.00016	-.00012	-.01828	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.00012**	**-.00443**	**.00029**	**.00170**	**.00158**	**.00338**	**-.00029**	**.00001**	**-.00123**
Stddev	.00026	.00071	.00117	.00045	.00045	.00547	.01171	.00018	.00010	.00008
%RSD	27.381	588.89	26.519	155.59	26.750	346.62	346.62	60.987	1181.0	6.1034
#1	-.00113	-.00038	-.00526	-.00003	.00202	.00545	.01165	-.00042	.00008	-.00118
#2	-.00076	.00062	-.00360	.00061	.00138	-.00229	-.00490	-.00017	-.00007	-.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00087**	**-.01467**	**.00000**	**.00258**	**.00142**
Stddev	.00021	.00201	.00610	.00015	.00009	.00055
%RSD	117.78	229.55	41.582	7256.9	3.6096	38.660
#1	.00032	-.00054	-.01899	-.00011	.00251	.00103
#2	.00003	.00229	-.01036	.00011	.00264	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4124.0**	**49639.**	**5335.9**
Stddev	11.1	67.	27.2
%RSD	.26926	.13552	.50952
#1	4116.1	49591.	5316.6
#2	4131.8	49686.	5355.1

Sample Name: lcs 280-99395/2-a Acquired: 12/13/2011 15:01:06 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99395 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04972**	**1.9667**	**.99842**	**.99019**	**1.9675**	**.04982**	**2.0480**	**49.087**	**.09974**	**.49260**
Stddev	.00000	.0051	.00757	.00327	.0271	.00066	.0008	.492	.00007	.00013
%RSD	.00053	.26152	.75830	.33036	1.3791	1.3197	.03797	1.0030	.07280	.02718
#1	.04972	1.9630	.99306	.98788	1.9867	.05028	2.0485	49.435	.09980	.49251
#2	.04972	1.9703	1.0038	.99250	1.9483	.04935	2.0474	48.739	.09969	.49270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20036**	**.24547**	**.98437**	**50.699**	**1.0089**	**49.432**	**.49477**	**.99688**	**52.742**	**.49939**
Stddev	.00056	.00071	.01132	.431	.0090	.308	.00316	.00123	.333	.00078
%RSD	.28182	.29121	1.1503	.84918	.89177	.62344	.63840	.12377	.63166	.15684
#1	.19996	.24598	.99237	51.004	1.0153	49.650	.49700	.99601	52.978	.49884
#2	.20076	.24497	.97636	50.395	1.0026	49.214	.49254	.99775	52.507	.49995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.031**	**.49357**	**-.01085**	**.49042**	**1.9347**	**9.9697**	F **21.335**	**1.9941**	**1.0113**	**1.0230**
Stddev	.015	.00008	.00531	.00018	.0102	.1180	.253	.0026	.0113	.0091
%RSD	.14488	.01548	48.916	.03723	.52950	1.1840	1.1840	.13175	1.1144	.88623
#1	10.021	.49352	-.01460	.49029	1.9274	10.053	21.514	1.9959	1.0193	1.0294
#2	10.041	.49363	-.00710	.49055	1.9419	9.8862	21.156	1.9922	1.0033	1.0166
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							24.610			
Low Limit							20.100			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0191**	**1.9660**	**2.1389**	**.49365**	**.49581**	**.49892**
Stddev	.0034	.0026	.0167	.00019	.00297	.00745
%RSD	.33193	.13047	.77855	.03789	.59836	1.4931
#1	1.0215	1.9642	2.1271	.49352	.49790	.50418
#2	1.0167	1.9678	2.1507	.49378	.49371	.49365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3949.8**	**46857.**	**5334.0**
Stddev	3.3	52.	12.6
%RSD	.08448	.11159	.23592
#1	3952.1	46820.	5325.1
#2	3947.4	46894.	5342.9

Sample Name: 280-23545-c-1-a Acquired: 12/13/2011 15:03:15 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99395 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00277**	**-.00138**	**.07225**	**.00328**	**.00005**	**.00037**	**11.772**	**.00019**	**.00270**
Stddev	.00016	.00142	.00175	.00059	.00015	.00004	.00069	.016	.00002	.00006
%RSD	49.738	51.382	127.52	.81362	4.4535	83.934	186.25	.13391	12.554	2.0534
#1	-.00043	.00378	-.00014	.07183	.00339	.00008	-.00012	11.784	.00017	.00266
#2	-.00021	.00176	-.00262	.07266	.00318	.00002	.00085	11.761	.00020	.00274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01004**	**.00051**	**.04204**	**.38773**	**.00189**	**27.568**	**.02701**	**.00091**	**34.989**	**.22701**
Stddev	.00002	.00010	.00279	.02515	.00039	.061	.00015	.00032	.071	.00114
%RSD	.20933	18.740	6.6356	6.4873	20.740	.22031	.56486	35.288	.20172	.50364
#1	.01003	.00058	.04007	.36994	.00161	27.525	.02690	.00068	35.039	.22782
#2	.01006	.00044	.04402	.40551	.00217	27.611	.02712	.00114	34.939	.22620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00529**	**-.00021**	**5.2468**	**-.00115**	**.00668**	**11.515**	**24.642**	**-.00065**	**.07070**	**-.00002**
Stddev	.00169	.00112	.0288	.00047	.00096	.031	.067	.00066	.00005	.00061
%RSD	32.029	524.08	.54907	41.030	14.332	.26992	.26992	101.68	.07127	3728.0
#1	.00649	-.00100	5.2265	-.00149	.00600	11.537	24.689	-.00112	.07074	-.00045
#2	.00409	.00058	5.2672	-.00082	.00736	11.493	24.595	-.00018	.07066	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**.00154**	**-.03256**	**.00042**	**.00492**	**.00153**
Stddev	.00005	.00037	.03583	.00007	.00030	.00103
%RSD	6.1387	23.770	110.05	16.824	6.1983	67.572
#1	.00080	.00128	-.00722	.00047	.00470	.00080
#2	.00087	.00179	-.05789	.00037	.00513	.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4027.8**	**47902.**	**5434.1**
Stddev	10.5	85.	16.3
%RSD	.25949	.17758	.30042
#1	4035.2	47962.	5445.7
#2	4020.4	47842.	5422.6

Sample Name: 280-23545-c-1-aSD@5 Acquired: 12/13/2011 15:05:37 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99395 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.00062**	**-.00241**	**.01451**	**.00090**	**-.00002**	**.00168**	**2.3653**	**.00025**	**.00057**
Stddev	.00014	.00013	.00183	.00013	.00019	.00004	.00121	.0190	.00002	.00006
%RSD	32.434	20.720	75.789	.89572	20.939	226.07	72.041	.80111	10.120	9.7362
#1	-.00055	-.00071	-.00370	.01442	.00077	.00001	.00083	2.3787	.00023	.00061
#2	-.00034	-.00053	-.00112	.01460	.00103	-.00005	.00254	2.3519	.00026	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**-.00001**	**.01238**	**.09351**	**.00166**	**5.4169**	**.00541**	**.00010**	**6.6456**	**.04534**
Stddev	.00005	.00038	.00062	.03689	.00033	.0009	.00001	.00016	.0483	.00002
%RSD	2.6405	3151.9	4.9736	39.455	19.604	.01644	.22340	160.88	.72743	.03854
#1	.00202	-.00028	.01195	.11960	.00143	5.4176	.00542	.00021	6.6798	.04533
#2	.00210	.00026	.01282	.06742	.00189	5.4163	.00541	-.00001	6.6115	.04535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00019**	**1.0108**	**-.00166**	**.00092**	**2.2657**	**4.8485**	**-.00064**	**.01412**	**-.00068**
Stddev	.00031	.00037	.0051	.00064	.00247	.0386	.0826	.00068	.00005	.00049
%RSD	54.369	197.31	.50138	38.410	269.24	1.7027	1.7027	105.62	.37519	71.717
#1	.00078	-.00007	1.0144	-.00121	-.00083	2.2929	4.9069	-.00112	.01416	-.00102
#2	.00035	.00045	1.0072	-.00211	.00266	2.2384	4.7902	-.00016	.01409	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00088**	**-.01234**	**-.00016**	**.00344**	**.00133**
Stddev	.00010	.00171	.00024	.00025	.00044	.00062
%RSD	593.49	193.16	1.9394	156.95	12.926	46.664
#1	.00005	.00209	-.01217	-.00034	.00313	.00089
#2	-.00008	-.00032	-.01251	.00002	.00376	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4104.4**	**49149.**	**5351.5**
Stddev	9.4	48.	37.0
%RSD	.22858	.09799	.69103
#1	4097.7	49183.	5325.4
#2	4111.0	49115.	5377.7

Sample Name: 280-23545-c-1-b ms Acquired: 12/13/2011 15:08:02 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99395 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05071**	**1.9475**	**1.0114**	**1.0681**	**1.9882**	**.05022**	F **2.0632**	**60.740**	**.10000**	**.49184**
Stddev	.00069	.0034	.0024	.0012	.0204	.00064	.0002	.676	.00018	.00039
%RSD	1.3535	.17514	.23927	.10857	1.0268	1.2735	.01065	1.1131	.18382	.08010
#1	.05023	1.9500	1.0096	1.0673	1.9738	.04977	2.0634	60.262	.09987	.49156
#2	.05120	1.9451	1.0131	1.0690	2.0026	.05067	2.0631	61.218	.10013	.49212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21018**	**.25303**	**1.0290**	**51.187**	**1.0136**	**78.005**	**.52801**	**1.0001**	**87.762**	**.71805**
Stddev	.00003	.00025	.0105	.727	.0101	.247	.00144	.0009	.925	.00099
%RSD	.01292	.10024	1.0192	1.4198	1.0015	.31653	.27221	.09334	1.0541	.13796
#1	.21020	.25285	1.0215	50.673	1.0064	77.830	.52700	.99942	87.107	.71735
#2	.21016	.25321	1.0364	51.701	1.0207	78.179	.52903	1.0007	88.416	.71875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **10.068**	**.49252**	**5.3976**	**.49579**	**1.9616**	**21.591**	**46.206**	**1.9926**	**1.0839**	**1.0351**
Stddev	.007	.00130	.0055	.00238	.0050	.236	.504	.0024	.0112	.0022
%RSD	.07153	.26427	.10216	.48103	.25709	1.0911	1.0911	.11952	1.0284	.21688
#1	10.063	.49160	5.3937	.49748	1.9580	21.425	45.849	1.9909	1.0761	1.0335
#2	10.073	.49344	5.4015	.49410	1.9652	21.758	46.562	1.9943	1.0918	1.0367
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0353**	**1.9457**	**2.1528**	**.50178**	**.49884**	**.50481**
Stddev	.0036	.0036	.0350	.00431	.00004	.00315
%RSD	.34346	.18270	1.6246	.85884	.00848	.62449
#1	1.0328	1.9482	2.1280	.49873	.49881	.50258
#2	1.0378	1.9432	2.1775	.50483	.49887	.50704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3922.0**	**46113.**	**5357.4**
Stddev	4.6	90.	80.4
%RSD	.11845	.19608	1.4998
#1	3918.7	46177.	5414.2
#2	3925.3	46049.	5300.6

Sample Name: 280-23545-c-1-c msd Acquired: 12/13/2011 15:10:09 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99395 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04971**	**1.9225**	**.99605**	**1.0517**	**1.9297**	**.04918**	F **2.0370**	**59.522**	**.09879**	**.48654**
Stddev	.00011	.0043	.00967	.0064	.0034	.00016	.0175	.049	.00029	.00165
%RSD	.22186	.22626	.97133	.60818	.17834	.31786	.85817	.08297	.29135	.33895
#1	.04963	1.9194	.98921	1.0472	1.9273	.04929	2.0246	59.487	.09859	.48538
#2	.04979	1.9256	1.0029	1.0562	1.9321	.04907	2.0494	59.557	.09900	.48771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20803**	**.24715**	**1.0002**	**50.104**	**.98995**	**76.202**	**.51435**	**.98620**	**86.457**	**.71194**
Stddev	.00066	.00153	.0077	.081	.00154	.237	.00072	.00515	.300	.00214
%RSD	.31897	.61742	.77113	.16190	.15508	.31125	.13978	.52261	.34675	.30076
#1	.20756	.24607	.99476	50.046	.98887	76.034	.51384	.98255	86.669	.71042
#2	.20850	.24823	1.0057	50.161	.99104	76.370	.51486	.98984	86.245	.71345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **9.9465**	**.48204**	**5.3185**	**.48552**	**1.9348**	**21.207**	**45.382**	**1.9643**	**1.0628**	**1.0093**
Stddev	.0385	.00243	.0361	.00086	.0155	.021	.046	.0104	.0013	.0031
%RSD	.38740	.50430	.67923	.17785	.80108	.10036	.10036	.52720	.12626	.30490
#1	9.9192	.48032	5.2930	.48491	1.9239	21.222	45.414	1.9570	1.0618	1.0115
#2	9.9737	.48376	5.3440	.48613	1.9458	21.191	45.350	1.9716	1.0637	1.0072
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0111**	**1.9247**	**2.1115**	**.48907**	**.48795**	**.48796**
Stddev	.0035	.0090	.0359	.00299	.00204	.00028
%RSD	.34718	.46804	1.7021	.61173	.41885	.05681
#1	1.0086	1.9183	2.0861	.48695	.48650	.48816
#2	1.0136	1.9310	2.1369	.49118	.48939	.48777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3922.4**	**46234.**	**5351.5**
Stddev	22.5	28.	26.8
%RSD	.57368	.06111	.49988
#1	3938.3	46254.	5370.4
#2	3906.5	46214.	5332.6

Sample Name: 280-23545-c-1-aPDS Acquired: 12/13/2011 15:12:17 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99395 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03976**	**1.1216**	**.22296**	**.16870**	**.11002**	**.05473**	**-.00011**	**32.962**	**.05573**	**.05683**
Stddev	.00060	.0060	.00165	.00097	.00035	.00022	.00032	.096	.00023	.00011
%RSD	1.5081	.53752	.73861	.57520	.31711	.40770	307.99	.29257	.41975	.20070
#1	.03933	1.1174	.22179	.16801	.11027	.05489	-.00033	33.030	.05589	.05675
#2	.04018	1.1259	.22412	.16939	.10978	.05457	.00012	32.894	.05556	.05691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06600**	**.05548**	**1.1178**	**22.593**	**.11384**	**48.256**	**.08016**	**.04928**	**56.939**	**.27507**
Stddev	.00035	.00012	.0003	.069	.00069	.079	.00022	.00007	.140	.00060
%RSD	.53742	.21206	.03011	.30599	.60550	.16456	.27975	.14257	.24554	.21665
#1	.06575	.05540	1.1176	22.642	.11335	48.312	.08032	.04923	56.840	.27465
#2	.06625	.05557	1.1181	22.544	.11433	48.200	.08000	.04933	57.038	.27549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **2.1940**	**.10864**	**5.1648**	**.09523**	**.22009**	**16.074**	**34.398**	**.09736**	**.12553**	**.22450**
Stddev	.0073	.00019	.0134	.00086	.00084	.044	.095	.00002	.00023	.00042
%RSD	.33268	.17584	.25976	.90129	.38360	.27568	.27568	.01706	.18471	.18650
#1	2.1889	.10851	5.1743	.09462	.22069	16.105	34.465	.09735	.12569	.22420
#2	2.1992	.10878	5.1553	.09584	.21949	16.042	34.331	.09737	.12537	.22480
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05068**	**.21872**	**.57634**	**.05417**	**.22394**	**.04950**
Stddev	.00004	.00112	.01659	.00093	.00069	.00085
%RSD	.07774	.51097	2.8783	1.7180	.30844	1.7128
#1	.05071	.21951	.58807	.05483	.22443	.04890
#2	.05065	.21793	.56461	.05351	.22346	.05010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3978.1**	**47383.**	**5403.3**
Stddev	26.3	119.	13.5
%RSD	.66195	.25137	.25070
#1	3996.7	47299.	5393.7
#2	3959.5	47467.	5412.9

Sample Name: 280-23545-c-2-a Acquired: 12/13/2011 15:14:34 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99395 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00791**	**-.00089**	**.13535**	**.00296**	**.00010**	**.00166**	**21.960**	**.00019**	**.00192**
Stddev	.00016	.00180	.00304	.00060	.00005	.00002	.00207	.082	.00001	.00005
%RSD	76.282	22.765	339.80	.44697	1.7155	21.578	124.65	.37170	3.9950	2.6064
#1	.00033	.00664	.00126	.13578	.00299	.00011	.00020	21.902	.00019	.00195
#2	.00010	.00919	-.00304	.13492	.00292	.00008	.00312	22.018	.00018	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00308**	**.00054**	**.01269**	**.92157**	**.00410**	**13.047**	**.01079**	**.00215**	**143.41**	**.03246**
Stddev	.00005	.00015	.00142	.02449	.00193	.008	.00002	.00003	.13	.00049
%RSD	1.5180	28.582	11.161	2.6570	47.042	.06315	.20738	1.4230	.09229	1.5195
#1	.00304	.00065	.01370	.93889	.00274	13.042	.01080	.00217	143.31	.03281
#2	.00311	.00043	.01169	.90426	.00547	13.053	.01077	.00213	143.50	.03211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06605**	**.00339**	**21.153**	**-.00171**	**.00277**	**9.8049**	**20.983**	**.00021**	**.13683**	**-.00153**
Stddev	.00114	.00043	.093	.00096	.00008	.0438	.094	.00092	.00070	.00027
%RSD	1.7191	12.638	.44075	56.467	2.9955	.44634	.44634	445.78	.51243	17.885
#1	.06525	.00370	21.219	-.00239	.00283	9.7740	20.916	-.00044	.13634	-.00173
#2	.06685	.00309	21.087	-.00103	.00271	9.8359	21.049	.00086	.13733	-.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00199**	**-.00719**	**.00174**	**.00422**	**.00064**
Stddev	.00030	.00036	.00477	.00001	.00030	.00244
%RSD	41.701	18.348	66.409	.81323	7.1070	380.14
#1	.00092	.00173	-.00381	.00173	.00443	.00237
#2	.00050	.00224	-.01057	.00175	.00400	-.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3979.8**	**46702.**	**5376.8**
Stddev	7.1	44.	5.9
%RSD	.17915	.09316	.11044
#1	3974.8	46671.	5381.0
#2	3984.9	46732.	5372.6

Sample Name: 280-23566-c-1-a Acquired: 12/13/2011 15:16:57 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99395 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.16477**	**-.00217**	**.02150**	**.03254**	**-.00004**	**.00155**	**87.637**	**.00015**	**.00011**
Stddev	.00025	.00236	.00287	.00011	.00009	.00003	.00065	.034	.00004	.00020
%RSD	107.44	1.4314	132.20	.49000	.27847	70.900	42.154	.03916	27.607	185.69
#1	.00041	.16644	-.00420	.02157	.03260	-.00006	.00108	87.662	.00017	.00025
#2	.00006	.16311	-.00014	.02143	.03247	-.00002	.00201	87.613	.00012	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00386**	**.00139**	**.19122**	**3.6886**	**.00596**	**9.2423**	**.01848**	**.00078**	**78.434**	**.00046**
Stddev	.00014	.00002	.00062	.0483	.00021	.0604	.00007	.00020	.267	.00031
%RSD	3.7550	1.4517	.32387	1.3096	3.5876	.65406	.39516	26.098	.33986	67.665
#1	.00396	.00137	.19079	3.7227	.00581	9.1995	.01842	.00092	78.246	.00067
#2	.00376	.00140	.19166	3.6544	.00611	9.2850	.01853	.00063	78.623	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00486**	**.00062**	**9.1113**	**-.00289**	**-.00226**	**3.3993**	**7.2745**	**-.00025**	**.24315**	**-.00092**
Stddev	.00088	.00018	.0902	.00089	.00021	.0029	.0062	.00019	.00028	.00134
%RSD	18.013	28.549	.98972	30.707	9.2718	.08524	.08524	74.986	.11487	145.34
#1	.00548	.00074	9.1750	-.00226	-.00241	3.3973	7.2701	-.00039	.24335	.00003
#2	.00424	.00049	9.0475	-.00352	-.00211	3.4014	7.2789	-.00012	.24295	-.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00457**	**.00167**	**-.01046**	**-.00001**	**.00477**	**.00152**
Stddev	.00096	.00056	.04480	.00003	.00041	.00010
%RSD	20.986	33.602	428.12	265.07	8.6514	6.6637
#1	.00389	.00207	-.04214	-.00003	.00506	.00159
#2	.00524	.00127	.02121	.00001	.00448	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3934.5**	**46433.**	**5369.5**
Stddev	38.5	211.	6.3
%RSD	.97733	.45458	.11770
#1	3907.3	46582.	5374.0
#2	3961.7	46284.	5365.0

Sample Name: 280-23566-c-2-a Acquired: 12/13/2011 15:19:21 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99395 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00005**	**-.00021**	**.00005**	**.00027**	**.00005**	**.00021**	**.13995**	**.00007**	**.00021**
Stddev	.00023	.00133	.00174	.00002	.00029	.00003	.00064	.00347	.00000	.00009
%RSD	337.45	2446.3	816.12	51.329	107.31	61.915	311.44	2.4796	1.2126	43.931
#1	.00009	-.00100	-.00144	.00003	.00007	.00003	-.00025	.14241	.00007	.00014
#2	-.00023	.00089	.00102	.00006	.00048	.00007	.00066	.13750	.00007	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00011**	**.00204**	**.04098**	**.00135**	**.00459**	**.00018**	**.00004**	**.05362**	**-.00018**
Stddev	.00029	.00002	.00182	.01130	.00109	.00063	.00000	.00023	.01685	.00024
%RSD	90.164	17.972	89.156	27.581	80.639	13.733	1.6174	618.11	31.419	132.93
#1	.00012	-.00013	.00332	.04898	.00211	.00414	.00019	-.00012	.06553	-.00001
#2	.00053	-.00010	.00075	.03299	.00058	.00504	.00018	.00020	.04171	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00085**	**.00273**	**-.00066**	**-.00025**	**-.00475**	**-.01017**	**.00024**	**.00011**	**.00068**
Stddev	.00160	.00074	.00693	.00108	.00552	.00534	.01142	.00007	.00005	.00035
%RSD	334.17	86.972	254.18	162.20	2234.1	112.28	112.28	27.079	49.909	50.624
#1	.00065	.00137	-.00217	-.00142	.00366	-.00853	-.01825	.00020	.00007	.00093
#2	-.00161	.00033	.00763	.00010	-.00415	-.00098	-.00210	.00029	.00015	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00093**	**-.01576**	**.00012**	**.00531**	**.00031**
Stddev	.00005	.00051	.02309	.00028	.00001	.00053
%RSD	18.821	55.127	146.46	223.62	.17197	171.51
#1	.00022	.00057	.00056	.00032	.00530	-.00007
#2	.00028	.00129	-.03209	-.00007	.00531	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4159.0**	**50357.**	**5520.3**
Stddev	3.3	150.	29.7
%RSD	.07830	.29707	.53752
#1	4161.3	50251.	5541.3
#2	4156.7	50463.	5499.3

Sample Name: CCVH-1169743 Acquired: 12/13/2011 15:21:46 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**49.501**	**-.00176**	**.00139**	**.00038**	**-.00012**	**.97622**	**.00296**	**-.00082**	**.00067**	**.00024**	**-.00137**	**50.095**
Stddev	.00006	.078	.00082	.00018	.00007	.00008	.00535	.00021	.00006	.00015	.00006	.00022	.149
%RSD	5.6085	.15767	46.808	13.069	17.207	64.712	.54808	7.0112	6.8723	21.748	25.868	15.821	.29668
#1	-.00108	49.556	-.00118	.00152	.00043	-.00007	.98001	.00282	-.00086	.00077	.00029	-.00153	49.990
#2	-.00117	49.446	-.00235	.00126	.00033	-.00018	.97244	.00311	-.00078	.00057	.00020	-.00122	50.201
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04415**	**.00172**	**-.00595**	**-.00149**	**-.00202**	**246.75**	**.00082**	**.00052**	**-.00150**	**4.7549**	**-.00151**	**.00330**	**.01022**
Stddev	.00608	.00153	.00038	.00001	.00002	.47	.00030	.00248	.00055	.0036	.00086	.00209	.00874
%RSD	13.767	88.788	6.3702	.60981	.81512	.19020	36.260	479.73	36.596	.07502	57.360	63.446	85.550
#1	.03985	.00280	-.00568	-.00150	-.00204	247.08	.00061	-.00124	-.00111	4.7574	-.00089	.00478	.00404
#2	.04845	.00064	-.00621	-.00148	-.00201	246.41	.00103	.00227	-.00189	4.7524	-.00212	.00182	.01640
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02187**	**.00256**	**.00042**	**4.7971**	**.00182**	**-.00464**	**9.9503**	**-.00048**	**.00208**	**-.01252**
Stddev	.01871	.00007	.00004	.0054	.00008	.00119	.0170	.00015	.00012	.00134
%RSD	85.550	2.6556	9.2634	.11335	4.2672	25.561	.17055	30.797	5.7067	10.739
#1	.00864	.00251	.00045	4.8010	.00188	-.00380	9.9383	-.00037	.00217	-.01347
#2	.03510	.00260	.00039	4.7933	.00177	-.00548	9.9623	-.00058	.00200	-.01157
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3982.0**	**47115.**	**5404.9**
Stddev	1.9	248.	16.0
%RSD	.04876	.52604	.29658
#1	3980.6	46940.	5393.6
#2	3983.4	47290.	5416.2

Sample Name: CCV-1169927 Acquired: 12/13/2011 15:24:07 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48061**	**.50380**	**.97910**	**.48778**	**.47978**	**.49254**	**.00020**	**4.9278**	**.49187**	**.49892**	**.49803**	**.48839**	**2.4275**
Stddev	.00094	.00354	.00200	.00247	.00132	.00125	.00112	.0207	.00336	.00378	.00277	.00259	.0080
%RSD	.19535	.70316	.20432	.50615	.27507	.25415	546.98	.42072	.68267	.75817	.55599	.53046	.32899
#1	.48127	.50630	.98051	.48953	.48071	.49343	.00099	4.9424	.49424	.50159	.49999	.49022	2.4332
#2	.47995	.50129	.97768	.48604	.47884	.49166	-.00059	4.9131	.48949	.49625	.49608	.48656	2.4219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.459**	**.99315**	**19.539**	**.48893**	**.49561**	**4.9658**	**.49831**	**.97523**	**.98086**	**-.02155**	**.96983**	**.97029**	**4.8865**
Stddev	.200	.00046	.006	.00030	.00383	.0191	.00432	.00811	.00650	.01108	.01102	.00524	.0112
%RSD	.40391	.04598	.03239	.06168	.77322	.38482	.86655	.83119	.66258	51.436	1.1363	.54038	.22936
#1	49.600	.99347	19.543	.48871	.49832	4.9793	.50136	.98096	.98545	-.02939	.97762	.97400	4.8944
#2	49.318	.99283	19.534	.48914	.49290	4.9523	.49526	.96950	.97626	-.01371	.96204	.96659	4.8785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.457**	**.99649**	**.49361**	**-.00172**	**.49720**	**.99172**	**.00532**	**.48962**	**.49484**	**.48724**
Stddev	.024	.00749	.00130	.00051	.00104	.00417	.02106	.00167	.00154	.00092
%RSD	.22936	.75196	.26260	29.558	.20964	.42056	395.75	.34163	.31031	.18790
#1	10.474	1.0018	.49452	-.00208	.49794	.99467	.02022	.49081	.49592	.48789
#2	10.440	.99120	.49269	-.00136	.49647	.98877	-.00957	.48844	.49375	.48659
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4052.8**	**48178.**	**5472.6**
Stddev	37.5	51.	.2
%RSD	.92476	.10612	.00304
#1	4026.3	48214.	5472.8
#2	4079.3	48141.	5472.5

Sample Name: CCB Acquired: 12/13/2011 15:26:20 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00309**	**.00173**	**.00058**	**-.00009**	**.00006**	**-.00014**	**-.00346**	**.00005**	**.00007**	**.00004**	**-.00011**	**.00132**
Stddev	.00007	.00070	.00119	.00009	.00004	.00008	.00094	.00301	.00005	.00000	.00000	.00005	.00047
%RSD	82.830	22.711	69.131	14.648	46.643	128.86	650.27	86.784	84.128	3.3818	3.4756	43.173	35.252
#1	.00013	-.00358	.00257	.00052	-.00006	.00011	.00052	-.00559	.00009	.00007	.00003	-.00008	.00165
#2	.00003	-.00259	.00088	.00065	-.00012	.00001	-.00081	-.00134	.00002	.00007	.00004	-.00015	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04268**	**.00144**	**.00039**	**.00002**	**.00037**	**.02105**	**-.00010**	**-.00265**	**.00025**	**-.00282**	**.00163**	**.00310**	**-.00707**
Stddev	.00536	.00024	.00181	.00001	.00034	.00750	.00020	.00021	.00112	.00122	.00209	.00143	.00366
%RSD	12.559	16.606	466.66	80.594	92.464	35.636	191.24	7.8227	450.30	43.169	127.72	46.173	51.805
#1	.04647	.00127	.00167	.00003	.00013	.01574	-.00025	-.00250	.00104	-.00196	.00016	.00209	-.00448
#2	.03889	.00161	-.00089	.00001	.00061	.02635	.00004	-.00280	-.00054	-.00369	.00311	.00411	-.00966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01513**	**-.00045**	**.00003**	**.00053**	**.00018**	**-.00028**	**-.00983**	**-.00008**	**.00165**	**.00104**
Stddev	.00784	.00060	.00000	.00074	.00012	.00026	.01288	.00053	.00013	.00049
%RSD	51.805	132.42	13.559	140.49	63.389	93.363	131.03	686.94	7.6914	46.804
#1	-.00959	-.00088	.00004	.00105	.00010	-.00010	-.01894	.00030	.00156	.00138
#2	-.02068	-.00003	.00003	.00000	.00026	-.00047	-.00072	-.00045	.00174	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4093.0**	**49724.**	**5440.9**
Stddev	12.4	97.	9.6
%RSD	.30344	.19604	.17590
#1	4101.8	49656.	5447.6
#2	4084.2	49793.	5434.1

Sample Name: CCVL1171013 Acquired: 12/13/2011 15:28:45 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .00584	F .05908	F .00816	.10195	F .00566	F .00057	F .06672	F .11792	F .00301	F .00654	F .00618	F .00916	F .05886
Stddev	.00012	.00163	.00137	.00089	.00006	.00008	.00121	.00002	.00004	.00034	.00002	.00006	.00390
%RSD	2.0992	2.7514	16.805	.86850	1.0839	13.187	1.8163	.01603	1.4316	5.1900	.26285	.69533	6.6276
#1	.00593	.05793	.00913	.10132	.00561	.00052	.06586	.11793	.00298	.00678	.00619	.00912	.06162
#2	.00575	.06023	.00719	.10257	.00570	.00062	.06758	.11790	.00305	.00630	.00617	.00921	.05610
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.01000	.10000	.01500		.01000	.00100	.10000	.20000	.00500	.01000	.01000	.01500	.10000
Range	-30.000%	-30.000%	-30.000%		-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.8364	.00734	F .12265	F .00613	.02015	F .62568	F .02472	3.0282	F .00521	.00583	.00749	F .00799	.49189
Stddev	.0131	.00164	.00341	.00003	.00003	.00599	.00037	.0089	.00013	.00045	.00115	.00000	.00517
%RSD	.71107	22.397	2.7822	.41757	.16984	.95781	1.4914	.29401	2.4716	7.6669	15.328	.05981	1.0508
#1	1.8271	.00850	.12506	.00611	.02013	.62992	.02446	3.0219	.00512	.00615	.00830	.00799	.49555
#2	1.8456	.00618	.12024	.00615	.02018	.62145	.02498	3.0345	.00530	.00552	.00668	.00799	.48824
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	None	Chk Pass	Chk Fail	Chk Pass
Value	3.0000		.20000	.01000		1.0000	.04000		.00900			.01500	
Range	-30.000%		-30.000%	-30.000%		-30.000%	-30.000%		-30.000%			-30.000%	

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0527	.10329	F .00603	F .00851	.01052	.01188	F .01083	F .00531	F .01341	.01685
Stddev	.0111	.00018	.00002	.00066	.00001	.00128	.01889	.00004	.00004	.00039
%RSD	1.0508	.17635	.32711	7.6996	.13845	10.809	174.39	.66169	.30521	2.2901
#1	1.0605	.10342	.00602	.00805	.01051	.01279	-.00252	.00534	.01344	.01712
#2	1.0448	.10316	.00605	.00898	.01053	.01098	.02419	.00529	.01338	.01657
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass
Value			.01000	.01500			.06000	.01000	.02000	
Range			-30.000%	-30.000%			-30.000%	-30.000%	-30.000%	

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	4217.0	50560.	5584.1
Stddev	27.5	224.	1.9
%RSD	.65279	.44334	.03418
#1	4236.5	50719.	5582.7
#2	4197.5	50402.	5585.4

Sample Name: 280-23500-i-4-a@5 Acquired: 12/13/2011 15:31:09 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99295 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.03199**	W **11.880**	**.16644**	**.01728**	**.00004**	**.00230**	**299.03**	**.00460**	**.01448**
Stddev	.00013	.00026	.064	.00090	.00028	.00005	.00176	.04	.00093	.00002
%RSD	63.190	.80423	.54149	.54174	1.6261	127.51	76.694	.01172	20.161	.13317
#1	.00031	-.03181	11.925	.16708	.01709	.00008	.00354	299.05	.00526	.01449
#2	.00012	-.03217	11.834	.16580	.01748	.00000	.00105	299.00	.00395	.01447
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			10.000							
Low Limit			-.01000							

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00851**	**.04382**	**.12843**	W **107.78**	**.19431**	**111.52**	**.08910**	**.18228**	W **4566.6**	**.04083**
Stddev	.00011	.00013	.00092	1.42	.00132	.16	.00005	.00059	26.4	.00048
%RSD	1.3249	.29308	.71600	1.3199	.67799	.14085	.05708	.32440	.57802	1.1737
#1	.00859	.04391	.12778	106.77	.19338	111.41	.08906	.18270	4547.9	.04117
#2	.00843	.04373	.12908	108.78	.19524	111.63	.08913	.18187	4585.3	.04049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit				100.00					500.00	
Low Limit				-.50000					10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16325**	**.01809**	F **407.37**	**.03858**	**.02362**	**1.3793**	**2.9517**	**-.00214**	W **6.7877**	**-.00206**
Stddev	.00414	.00035	3.70	.00018	.00672	.0033	.0070	.00007	.0480	.00023
%RSD	2.5376	1.9255	.90827	.45864	28.432	.23790	.23790	3.1008	.70659	10.965
#1	.16618	.01833	409.99	.03846	.01887	1.3770	2.9467	-.00218	6.8216	-.00190
#2	.16032	.01784	404.76	.03871	.02837	1.3816	2.9566	-.00209	6.7538	-.00221
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit			200.00						5.0000	
Low Limit			-.20000						-.01000	

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00199**	**.00010**	**-.03441**	**.00209**	**.17731**	**.00143**
Stddev	.00015	.00052	.01602	.00002	.00038	.00100
%RSD	7.3207	547.19	46.547	1.0267	.21435	70.340
#1	.00210	.00047	-.04574	.00207	.17704	.00214
#2	.00189	-.00027	-.02309	.00210	.17758	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3204.8**	**36376.**	**5154.2**
Stddev	13.8	102.	9.5
%RSD	.43055	.28110	.18470
#1	3195.1	36449.	5161.0
#2	3214.6	36304.	5147.5

Sample Name: 280-23527-a-3-a@5 Acquired: 12/13/2011 15:33:46 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W .15290	1.0163	.69304	1.7195	.11806	.00037	.00339	153.91	W 8.6360	.09678
Stddev	.00006	.0016	.00129	.0032	.00020	.00007	.00111	.37	.0232	.00005
%RSD	.03650	.16174	.18580	.18429	.17145	20.222	32.654	.24205	.26905	.04876
#1	.15294	1.0174	.69213	1.7217	.11821	.00031	.00261	154.17	8.6524	.09681
#2	.15286	1.0151	.69395	1.7172	.11792	.00042	.00418	153.65	8.6196	.09675
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit	.10000								2.0000	
Low Limit	-.01000								-.00500	

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03685	.23886	3.9289	43.934	.20571	107.38	3.3603	.18587	W 2566.9	.29408
Stddev	.00016	.00030	.0006	.077	.00097	.30	.0153	.00032	1.6	.00101
%RSD	.42775	.12484	.01576	.17541	.47294	.28323	.45445	.17278	.06203	.34514
#1	.03696	.23865	3.9294	43.880	.20639	107.59	3.3495	.18610	2565.7	.29480
#2	.03673	.23907	3.9285	43.989	.20502	107.16	3.3711	.18565	2568.0	.29337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W 5.5120	.07553	F 608.95	.12944	.16240	14.653	31.357	.01909	3.1914	-.00597
Stddev	.0124	.00111	1.31	.00200	.00036	.022	.046	.00014	.0015	.00061
%RSD	.22576	1.4667	.21460	1.5458	.21973	.14702	.14702	.71849	.04662	10.292
#1	5.5208	.07631	609.87	.13085	.16215	14.668	31.390	.01899	3.1924	-.00554
#2	5.5032	.07474	608.03	.12802	.16266	14.638	31.324	.01919	3.1903	-.00641
Check ?	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000		200.00							
Low Limit	-1.0000		-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01707	.00081	-.03569	.19670	7.5896	.00201
Stddev	.00006	.00029	.00834	.00012	.0143	.00162
%RSD	.33505	35.262	23.374	.06128	.18821	80.767
#1	.01711	.00101	-.02979	.19662	7.5997	.00086
#2	.01702	.00061	-.04159	.19679	7.5795	.00315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	3469.7	39355.	5235.9
Stddev	7.2	166.	4.3
%RSD	.20829	.42205	.08189
#1	3464.6	39472.	5232.8
#2	3474.9	39237.	5238.9

Sample Name: 280-23527-a-5-a@5 Acquired: 12/13/2011 15:36:19 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al1670	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288
Line	328.068 {103}	167.079 {502}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04457**	**2.2696**	W **2.8486**	**4.8588**	**1.8035**	**.22158**	**.00030**	**.00122**	**201.16**	W **5.7782**
Stddev	.00038	.0164	.0118	.0006	.0005	.00077	.00004	.00082	.23	.0136
%RSD	.85938	.72234	.41598	.01226	.03011	.34600	12.516	67.449	.11306	.23498
#1	.04484	2.2580	2.8402	4.8593	1.8039	.22212	.00027	.00180	201.00	5.7878
#2	.04430	2.2811	2.8570	4.8584	1.8031	.22104	.00032	.00064	201.32	5.7686
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit			500.00							2.0000
Low Limit			3.2000							-.00500

Elem	Co2286	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	228.616 {447}	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13545**	**.04880**	**.06422**	**3.9609**	**52.960**	**.25365**	**116.83**	**3.1014**	**.54909**	W **2619.8**
Stddev	.00070	.00025	.00020	.0094	.130	.00028	.47	.0257	.00168	2.5
%RSD	.51914	.50358	.31761	.23663	.24621	.11095	.40267	.83026	.30641	.09555
#1	.13595	.04862	.06436	3.9676	52.867	.25345	117.16	3.1196	.55028	2618.0
#2	.13496	.04897	.06407	3.9543	53.052	.25385	116.49	3.0832	.54790	2621.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit										500.00
Low Limit										10.000

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28523**	W **3.2489**	**.08985**	F **679.50**	**.13017**	**.12232**	**24.973**	**53.443**	**.01693**	**3.4845**
Stddev	.00111	.0028	.00003	1.09	.00155	.00446	.300	.641	.00043	.0593
%RSD	.39060	.08740	.03032	.16057	1.1898	3.6490	1.1998	1.1998	2.5698	1.7007
#1	.28444	3.2469	.08983	678.73	.13126	.12547	25.185	53.897	.01723	3.4426
#2	.28602	3.2509	.08986	680.28	.12907	.11916	24.762	52.990	.01662	3.5264
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2.0000		200.00						
Low Limit		-1.0000		-.20000						

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	283.730 {119}	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00445**	**.01059**	**.00088**	**-.02945**	**.13135**	**7.5397**	**.00318**
Stddev	.00042	.00048	.00006	.00190	.00036	.0333	.00019
%RSD	9.3666	4.4951	6.5203	6.4612	.27742	.44209	6.0918
#1	-.00474	.01026	.00092	-.02810	.13109	7.5632	.00304
#2	-.00415	.01093	.00084	-.03079	.13161	7.5161	.00331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3484.3**	**40172.**	**5277.3**
Stddev	13.7	151.	16.0
%RSD	.39362	.37502	.30335
#1	3494.0	40065.	5288.6
#2	3474.6	40278.	5265.9

Sample Name: 280-23527-a-7-a@5 Acquired: 12/13/2011 15:38:50 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05930**	**4.2995**	**6.2376**	**1.9187**	**.11631**	**.00044**	**.00383**	**204.57**	W **3.1723**	**.26339**
Stddev	.00113	.0450	.0021	.0042	.00135	.00008	.00053	1.30	.0008	.00056
%RSD	1.9094	1.0468	.03434	.22033	1.1632	17.603	13.775	.63686	.02389	.21447
#1	.06010	4.2677	6.2361	1.9217	.11536	.00050	.00421	203.65	3.1718	.26299
#2	.05850	4.3314	6.2391	1.9157	.11727	.00039	.00346	205.49	3.1729	.26379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									2.0000	
Low Limit									-.00500	

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06593**	**.11427**	**4.0492**	**61.689**	**.34275**	**122.81**	**3.1062**	**.37305**	W **2699.6**	**.32211**
Stddev	.00004	.00023	.0359	.609	.00502	.84	.0319	.00122	22.7	.00012
%RSD	.06729	.20206	.88758	.98687	1.4637	.68541	1.0273	.32762	.84172	.03755
#1	.06596	.11443	4.0238	61.259	.33920	123.41	3.1287	.37219	2683.5	.32203
#2	.06590	.11411	4.0746	62.120	.34630	122.22	3.0836	.37391	2715.6	.32220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **6.8526**	**.16191**	F **692.71**	**.11234**	**.15656**	**27.703**	**59.284**	**.01906**	**3.6453**	**-.00542**
Stddev	.0066	.00110	.26	.00279	.00163	.049	.104	.00152	.0101	.00026
%RSD	.09570	.67996	.03717	2.4806	1.0389	.17582	.17582	7.9897	.27829	4.7984
#1	6.8479	.16113	692.89	.11037	.15541	27.737	59.358	.02014	3.6381	-.00561
#2	6.8572	.16269	692.53	.11431	.15771	27.669	59.211	.01798	3.6525	-.00524
Check ?	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000		200.00							
Low Limit	-1.0000		-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01007**	**.00165**	**-.01436**	**.16844**	**7.7770**	**.00200**
Stddev	.00027	.00005	.01281	.00082	.0712	.00070
%RSD	2.6692	3.0482	89.191	.48488	.91592	34.855
#1	.00988	.00169	-.02342	.16902	7.8274	.00250
#2	.01026	.00162	-.00531	.16787	7.7267	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3470.7**	**39893.**	**5265.1**
Stddev	8.9	171.	27.2
%RSD	.25639	.42843	.51695
#1	3477.0	39772.	5284.4
#2	3464.4	40014.	5245.9

Sample Name: 280-23527-a-9-a@5 Acquired: 12/13/2011 15:41:20 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W .17189	4.3720	2.2378	1.5573	.11496	.00048	.00328	179.75	W 2.7153	.05463
Stddev	.00113	.0184	.0037	.0077	.00074	.00008	.00013	.43	.0139	.00008
%RSD	.65862	.41970	.16777	.49726	.64594	16.480	3.8167	.23732	.51065	.15242
#1	.17269	4.3590	2.2351	1.5518	.11444	.00054	.00337	179.45	2.7055	.05469
#2	.17108	4.3849	2.2405	1.5628	.11549	.00043	.00319	180.05	2.7251	.05457
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit	.10000								2.0000	
Low Limit	-.01000								-.00500	

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03606	.28934	3.4645	45.302	.22416	105.08	1.8514	.27003	W 2449.5	.24838
Stddev	.00005	.00161	.0161	.180	.00192	.01	.0019	.00097	4.7	.00111
%RSD	.14120	.55652	.46551	.39752	.85534	.00616	.10177	.35776	.19034	.44536
#1	.03609	.29048	3.4531	45.175	.22280	105.08	1.8527	.26935	2446.2	.24760
#2	.03602	.28820	3.4759	45.430	.22552	105.09	1.8501	.27071	2452.8	.24917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W 7.5065	.15201	F 685.99	.10272	.28878	19.975	42.746	.01636	3.3022	-.00453
Stddev	.0420	.00007	4.84	.00149	.00077	.026	.055	.00063	.0543	.00005
%RSD	.55987	.04613	.70538	1.4523	.26541	.12794	.12794	3.8547	1.6430	1.0249
#1	7.4768	.15206	682.56	.10167	.28932	19.993	42.785	.01681	3.2638	-.00457
#2	7.5362	.15196	689.41	.10378	.28824	19.957	42.708	.01591	3.3406	-.00450
Check ?	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000		200.00							
Low Limit	-1.0000		-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01528	-.00199	-.01275	.22173	7.8131	.00305
Stddev	.00014	.00017	.00491	.00080	.0311	.00112
%RSD	.90873	8.6572	38.488	.36031	.39774	36.616
#1	.01538	-.00187	-.00928	.22229	7.7911	.00384
#2	.01518	-.00211	-.01622	.22116	7.8350	.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	3507.6	40458.	5307.8
Stddev	10.2	20.	5.4
%RSD	.29142	.05030	.10082
#1	3514.8	40443.	5304.0
#2	3500.4	40472.	5311.6

Sample Name: 280-23527-a-11-a@5 Acquired: 12/13/2011 15:43:46 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07220**	**4.2667**	**3.4874**	**1.2623**	**.15753**	**.00036**	**.00340**	**172.31**	W **2.5867**	**.06161**
Stddev	.00048	.0082	.0241	.0051	.00017	.00004	.00007	.69	.0074	.00050
%RSD	.65876	.19138	.69045	.40491	.11031	11.350	1.9247	.39892	.28729	.80507
#1	.07254	4.2725	3.4703	1.2587	.15740	.00039	.00335	171.82	2.5814	.06126
#2	.07187	4.2609	3.5044	1.2659	.15765	.00033	.00344	172.79	2.5919	.06196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									2.0000	
Low Limit									-.00500	

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03885**	**.29279**	**3.9475**	**35.415**	**.16589**	**98.628**	**1.5068**	**.31929**	W **2239.3**	**.26387**
Stddev	.00046	.00103	.0098	.068	.00185	.311	.0054	.00143	5.7	.00145
%RSD	1.1720	.35311	.24703	.19170	1.1165	.31559	.35789	.44844	.25639	.55103
#1	.03853	.29352	3.9406	35.367	.16458	98.849	1.5106	.31828	2235.3	.26285
#2	.03917	.29206	3.9544	35.463	.16720	98.408	1.5029	.32030	2243.4	.26490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **8.3887**	**.22038**	F **586.75**	**.08898**	**.22271**	**17.549**	**37.554**	**.01320**	**3.1962**	**-.00312**
Stddev	.0333	.00039	1.92	.00003	.00118	.005	.011	.00012	.0151	.00143
%RSD	.39747	.17770	.32793	.02873	.53187	.02963	.02963	.89085	.47209	45.844
#1	8.3651	.22066	585.39	.08900	.22355	17.545	37.547	.01328	3.2069	-.00211
#2	8.4123	.22010	588.11	.08897	.22187	17.552	37.562	.01311	3.1855	-.00413
Check ?	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000		200.00							
Low Limit	-1.0000		-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02225**	**.00003**	**-.02883**	**.21608**	**6.6163**	**.00210**
Stddev	.00053	.00015	.00271	.00123	.0198	.00113
%RSD	2.3963	583.87	9.3849	.56831	.29894	53.883
#1	.02188	-.00008	-.03074	.21695	6.6303	.00290
#2	.02263	.00013	-.02691	.21521	6.6023	.00130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3524.8**	**40714.**	**5304.9**
Stddev	18.2	94.	50.5
%RSD	.51690	.23112	.95190
#1	3537.7	40648.	5340.6
#2	3511.9	40781.	5269.2

Sample Name: 280-23527-a-13-a@5 Acquired: 12/13/2011 15:46:12 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al1670	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288
Line	328.068 {103}	167.079 {502}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06931**	**2.2914**	W **2.8501**	**2.9823**	**2.0480**	**.08259**	**.00035**	**.00439**	**151.92**	**1.8729**
Stddev	.00040	.0052	.0141	.0109	.0015	.00012	.00004	.00022	.30	.0008
%RSD	.57877	.22821	.49416	.36425	.07118	.14531	10.457	4.9574	.19772	.04514
#1	.06902	2.2951	2.8601	2.9900	2.0490	.08268	.00032	.00423	151.70	1.8723
#2	.06959	2.2877	2.8401	2.9746	2.0469	.08251	.00038	.00454	152.13	1.8735
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			500.00							
Low Limit			3.2000							

Elem	Co2286	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	228.616 {447}	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.32783**	**.06964**	**.26685**	**4.6511**	**55.798**	**.15554**	**89.972**	**1.3285**	**.19635**	W **2111.9**
Stddev	.00016	.00013	.00017	.0092	.163	.00214	.185	.0006	.00037	.4
%RSD	.05021	.18553	.06185	.19860	.29287	1.3766	.20605	.04410	.18730	.01882
#1	.32771	.06955	.26673	4.6446	55.682	.15403	90.103	1.3289	.19661	2112.2
#2	.32795	.06973	.26697	4.6577	55.913	.15706	89.841	1.3281	.19609	2111.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit										500.00
Low Limit										10.000

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29637**	W **4.0884**	**.13413**	F **491.76**	**.50253**	**.09785**	**21.779**	**46.607**	**.03475**	**2.7463**
Stddev	.00063	.0102	.00013	1.17	.00275	.00512	.038	.082	.00032	.0328
%RSD	.21122	.24918	.09710	.23813	.54726	5.2336	.17529	.17529	.92391	1.1943
#1	.29592	4.0956	.13404	492.58	.50448	.10148	21.806	46.665	.03497	2.7695
#2	.29681	4.0812	.13422	490.93	.50059	.09423	21.752	46.549	.03452	2.7231
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2.0000		200.00						
Low Limit		-1.0000		-.20000						

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	283.730 {119}	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.02364**	**.00250**	W **-.05268**	**.20199**	**5.1949**	**.00276**
Stddev	.00203	.00008	.00031	.00385	.00016	.0109	.00044
%RSD	307.84	.34770	12.269	7.3044	.07914	.21060	16.097
#1	-.00210	.02370	.00272	-.04996	.20210	5.2026	.00245
#2	.00078	.02358	.00229	-.05540	.20188	5.1871	.00308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit				45.000			
Low Limit				-.05000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3556.6**	**40937.**	**5362.0**
Stddev	4.1	101.	11.0
%RSD	.11640	.24616	.20567
#1	3559.5	40866.	5354.2
#2	3553.6	41009.	5369.8

Sample Name: 280-23527-a-15-a@5 Acquired: 12/13/2011 15:48:33 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05248**	**.75011**	W **12.116**	**2.9666**	**.06262**	**.00036**	**.00420**	**82.857**	W **2.8105**	**.21785**
Stddev	.00009	.00150	.004	.0041	.00004	.00006	.00064	.116	.0038	.00051
%RSD	.17186	.20003	.03458	.13756	.06114	15.304	15.296	.13985	.13509	.23199
#1	.05254	.74905	12.119	2.9637	.06265	.00032	.00465	82.775	2.8078	.21749
#2	.05241	.75117	12.114	2.9694	.06260	.00040	.00374	82.939	2.8132	.21820
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit			10.000						2.0000	
Low Limit			-.01000						-.00500	

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10448**	**.48629**	**4.4554**	**47.522**	**.13804**	**66.200**	**1.0761**	**.21301**	W **1994.6**	**.34761**
Stddev	.00035	.00152	.0057	.062	.00073	.103	.0019	.00067	.1	.00016
%RSD	.33249	.31323	.12834	.13144	.52613	.15619	.17633	.31668	.00322	.04587
#1	.10473	.48737	4.4595	47.566	.13753	66.127	1.0748	.21253	1994.6	.34749
#2	.10424	.48521	4.4514	47.478	.13855	66.273	1.0775	.21349	1994.7	.34772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **6.4192**	**.10407**	F **492.64**	**.36153**	**.06052**	**19.167**	**41.016**	**.01669**	**1.6911**	**-.00263**
Stddev	.0055	.00023	1.10	.00140	.00284	.057	.123	.00109	.0033	.00109
%RSD	.08621	.22168	.22411	.38634	4.6925	.29963	.29963	6.5237	.19635	41.645
#1	6.4231	.10391	493.42	.36252	.05851	19.207	41.103	.01746	1.6934	-.00185
#2	6.4153	.10423	491.86	.36054	.06253	19.126	40.929	.01592	1.6887	-.00340
Check ?	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000		200.00							
Low Limit	-1.0000		-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01124**	**.00058**	**-.00351**	**.15891**	**7.8748**	**.00179**
Stddev	.00013	.00031	.02122	.00003	.0250	.00115
%RSD	1.1554	52.752	605.25	.02186	.31713	64.240
#1	.01115	.00036	-.01851	.15893	7.8571	.00261
#2	.01133	.00080	.01150	.15888	7.8924	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3585.9**	**40710.**	**5401.3**
Stddev	.7	1.	1.7
%RSD	.01911	.00349	.03236
#1	3586.4	40709.	5402.5
#2	3585.4	40711.	5400.1

Sample Name: 280-23500-I-5-a Acquired: 12/13/2011 15:50:53 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	W **-.05028**	**.18224**	**2.6371**	**.10472**	**.00006**	**-.00059**	W **629.56**	**.00049**	**.01309**
Stddev	.00071	.00050	.00494	.0196	.00060	.00004	.00330	8.23	.00002	.00019
%RSD	237.71	.99333	2.7089	.74328	.57443	60.439	559.81	1.3072	3.7715	1.4683
#1	-.00080	-.05063	.17875	2.6510	.10515	.00003	.00174	623.74	.00048	.01323
#2	.00020	-.04993	.18573	2.6233	.10430	.00008	-.00292	635.38	.00050	.01296
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit		2.5000						500.00		
Low Limit		-.05000						-.05000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00941**	**.00078**	**.13229**	F **1425.2**	**.43616**	W **563.99**	**3.9601**	**.07309**	W **2295.8**	**.10095**
Stddev	.00014	.00038	.00074	28.9	.00409	1.68	.0307	.00154	5.7	.00210
%RSD	1.4589	48.449	.56210	2.0289	.93707	.29848	.77577	2.1051	.24946	2.0816
#1	.00950	.00051	.13282	1445.6	.43905	562.80	3.9383	.07418	2299.8	.10244
#2	.00931	.00104	.13177	1404.7	.43327	565.18	3.9818	.07200	2291.7	.09947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit				500.00		500.00			500.00	
Low Limit				-2.0000		-.10000			10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **2.1321**	**-.00073**	F **1220.4**	**-.00387**	**.04210**	**12.523**	**26.799**	**-.00121**	W **18.292**	**-.00499**
Stddev	.0381	.00034	8.6	.00081	.00697	.065	.139	.00068	.213	.00094
%RSD	1.7890	46.393	.70215	20.866	16.565	.51763	.51763	56.594	1.1630	18.798
#1	2.1591	-.00098	1226.5	-.00444	.03717	12.477	26.701	-.00169	18.442	-.00432
#2	2.1052	-.00049	1214.4	-.00330	.04704	12.569	26.897	-.00073	18.141	-.00565
Check ?	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit	2.0000		200.00						5.0000	
Low Limit	-1.0000		-.20000						-.01000	

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00967**	**-.00043**	**-.02457**	**.05409**	**.00530**	**.02258**
Stddev	.00012	.00068	.00078	.00024	.00032	.00250
%RSD	1.2872	158.86	3.1698	.43734	6.0306	11.054
#1	.00976	-.00090	-.02512	.05426	.00553	.02435
#2	.00958	.00005	-.02402	.05393	.00507	.02082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3204.4**	**37482.**	**5238.2**
Stddev	4.2	14.	7.8
%RSD	.13145	.03808	.14892
#1	3201.4	37493.	5243.7
#2	3207.3	37472.	5232.7

Sample Name: 280-23527-a-4-a Acquired: 12/13/2011 15:53:47 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.04812**	**.00443**	**.01635**	**.65155**	**-.00006**	**.00063**	F **2022.0**	**.00040**	**.00026**
Stddev	.00023	.00087	.00232	.00091	.00415	.00003	.00103	12.9	.00002	.00023
%RSD	55.513	1.8176	52.359	5.5717	.63637	49.451	163.59	.63689	5.0445	90.012
#1	-.00025	.04751	.00279	.01700	.64861	-.00008	.00136	2012.9	.00042	.00042
#2	-.00057	.04874	.00607	.01571	.65448	-.00004	-.00010	2031.1	.00039	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit								2000.0		
Low Limit								-.10000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00314**	**.21974**	**.02703**	**8.2879**	**.03264**	**.13284**	**.00271**	**.16709**	**94.706**	**-.00171**
Stddev	.00007	.00042	.00124	.2620	.00035	.00276	.00000	.00052	.757	.00018
%RSD	2.2224	.19204	4.5967	3.1606	1.0674	2.0808	.02088	.31274	.79895	10.704
#1	.00319	.21944	.02615	8.4731	.03289	.13089	.00271	.16746	94.171	-.00184
#2	.00309	.22004	.02791	8.1027	.03240	.13480	.00271	.16672	95.241	-.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01345**	**.01671**	**3.8126**	W **-.01818**	**.01860**	**.39622**	**.84792**	**.00138**	**1.7474**	**-.00040**
Stddev	.00059	.00005	.0306	.00077	.00626	.00845	.01808	.00089	.0121	.00049
%RSD	4.4009	.30465	.80313	4.2286	33.673	2.1321	2.1321	64.874	.69368	120.05
#1	.01303	.01675	3.8343	-.01872	.01417	.40220	.86070	.00201	1.7388	-.00075
#2	.01387	.01668	3.7910	-.01764	.02303	.39025	.83514	.00075	1.7560	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				2.0000						
Low Limit				-.01000						

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01136**	**-.00199**	**-.02534**	**.00203**	**.01381**	**.00220**
Stddev	.00015	.00088	.01666	.00036	.00043	.00062
%RSD	1.3637	44.404	65.744	17.966	3.1196	28.132
#1	.01126	-.00136	-.03712	.00229	.01411	.00177
#2	.01147	-.00261	-.01356	.00177	.01350	.00264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3467.4**	**40960.**	**5305.8**
Stddev	14.7	18.	19.2
%RSD	.42348	.04411	.36279
#1	3477.7	40973.	5319.4
#2	3457.0	40947.	5292.2

Sample Name: CCVH-1169743 Acquired: 12/13/2011 15:56:16 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**49.400**	**-.00284**	**.00598**	**.00043**	**-.00014**	**.98836**	**.15154**	**-.00068**	**.00085**	**.00034**	**-.00107**	**49.459**
Stddev	.00022	.115	.00033	.00010	.00018	.00007	.00084	.03104	.00004	.00001	.00004	.00073	.561
%RSD	45.098	.23239	11.645	1.7074	42.223	46.758	.08508	20.480	6.3293	.65466	12.299	68.545	1.1338
#1	-.00063	49.481	-.00261	.00605	.00030	-.00010	.98896	.17348	-.00071	.00085	.00031	-.00158	49.855
#2	-.00033	49.319	-.00308	.00591	.00056	-.00019	.98777	.12959	-.00065	.00086	.00037	-.00055	49.062
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98097**	**.00121**	**.01372**	**-.00131**	**-.00192**	**246.50**	**.00108**	**.00356**	**-.00098**	**5.0177**	**-.00344**	**.00798**	**.03381**
Stddev	.07404	.00025	.00147	.00003	.00015	1.49	.00015	.00012	.00000	.0553	.00047	.00403	.00660
%RSD	7.5477	20.681	10.678	2.3627	7.6818	.60501	13.754	3.4344	.28916	1.1028	13.692	50.513	19.519
#1	1.0333	.00104	.01476	-.00133	-.00181	247.55	.00119	.00365	-.00098	5.0569	-.00377	.00513	.02915
#2	.92862	.00139	.01268	-.00129	-.00202	245.44	.00098	.00348	-.00098	4.9786	-.00311	.01083	.03848
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07236**	**.00249**	**.00122**	**4.8014**	**.00110**	**-.00515**	**10.012**	**-.00019**	**.00219**	**-.00976**
Stddev	.01412	.00050	.00005	.0116	.00007	.00074	.026	.00022	.00013	.00186
%RSD	19.519	19.921	4.4300	.24156	6.8028	14.290	.26305	119.94	5.7259	19.107
#1	.06237	.00284	.00125	4.8096	.00104	-.00463	9.9934	-.00003	.00210	-.01108
#2	.08235	.00214	.00118	4.7932	.00115	-.00567	10.031	-.00035	.00228	-.00844
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3960.9**	**47474.**	**5494.0**
Stddev	13.4	68.	4.3
%RSD	.33896	.14314	.07808
#1	3951.4	47426.	5491.0
#2	3970.4	47522.	5497.0

Sample Name: CCV-1169927 Acquired: 12/13/2011 15:58:36 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48278**	**.50814**	**.98234**	**.49538**	**.48219**	**.49222**	**.00276**	**4.9768**	**.49480**	**.50004**	**.50035**	**.49383**	**2.4159**
Stddev	.00101	.00021	.00585	.00156	.00057	.00155	.00131	.0313	.00121	.00132	.00067	.00059	.0145
%RSD	.20889	.04063	.59591	.31430	.11811	.31584	47.664	.62887	.24467	.26313	.13331	.11905	.59911
#1	.48350	.50829	.97820	.49428	.48179	.49112	.00369	4.9546	.49394	.49911	.49988	.49342	2.4056
#2	.48207	.50800	.98648	.49649	.48260	.49332	.00183	4.9989	.49565	.50097	.50082	.49425	2.4261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.261**	**.99382**	**19.286**	**.48744**	**.49852**	**5.2215**	**.49924**	**.98228**	**.98373**	**.10453**	**.97882**	**.97387**	**4.8752**
Stddev	.141	.00199	.019	.00133	.00161	.0074	.00083	.00240	.00349	.00001	.00093	.00460	.0301
%RSD	.28530	.20034	.09774	.27206	.32337	.14159	.16725	.24436	.35483	.01289	.09537	.47284	.61808
#1	49.162	.99523	19.300	.48837	.49738	5.2163	.49865	.98058	.98126	.10454	.97816	.97062	4.8539
#2	49.361	.99242	19.273	.48650	.49966	5.2267	.49983	.98397	.98620	.10452	.97948	.97713	4.8965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.433**	**.99539**	**.49347**	**-.00131**	**.49705**	**1.0033**	**-.00115**	**.48805**	**.49008**	**.48658**
Stddev	.064	.00181	.00130	.00111	.00053	.0044	.02351	.00240	.00065	.00070
%RSD	.61808	.18134	.26319	84.560	.10581	.43968	2038.6	.49269	.13347	.14447
#1	10.387	.99411	.49256	-.00210	.49742	1.0002	.01547	.48975	.49054	.48609
#2	10.479	.99667	.49439	-.00053	.49668	1.0064	-.01777	.48635	.48961	.48708
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4072.2**	**48672.**	**5602.6**
Stddev	1.7	31.	34.6
%RSD	.04217	.06320	.61823
#1	4073.4	48693.	5627.1
#2	4071.0	48650.	5578.1

Sample Name: CCB Acquired: 12/13/2011 16:00:48 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**-.00143**	**-.00106**	W **.00304**	**.00000**	**.00006**	**-.00156**	W **.03462**	**.00006**	**.00014**	**.00011**	**-.00015**
Stddev	.00009	.00290	.00340	.00019	.00014	.00006	.00248	.00098	.00001	.00025	.00012	.00006
%RSD	33.916	203.10	319.39	6.2222	4047.3	103.62	158.30	2.8173	9.9616	181.38	109.34	42.287
#1	-.00034	-.00348	.00134	.00318	.00010	.00010	-.00332	.03531	.00005	-.00004	.00020	-.00020
#2	-.00021	.00062	-.00347	.00291	-.00009	.00002	.00019	.03393	.00006	.00032	.00003	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00156				.03450				
Low Limit				-.00156				-.03450				

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	W **.25367**	**-.00024**	**.00362**	**.00007**	**.00051**	F **.29154**	**-.00036**	**.00100**	**-.00028**	**.09289**	**.00073**
Stddev	.00158	.01889	.00046	.00103	.00003	.00025	.00568	.00001	.00030	.00132	.00357	.00130
%RSD	90.925	7.4459	190.89	28.433	47.826	48.914	1.9474	2.0982	29.897	477.44	3.8466	178.20
#1	.00285	.24031	-.00056	.00289	.00005	.00033	.28752	-.00037	.00122	-.00121	.09541	-.00019
#2	.00062	.26702	.00008	.00435	.00009	.00068	.29555	-.00036	.00079	.00066	.09036	.00165
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.23700					.18300					
Low Limit		-.23700					-.18320					

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**-.00289**	**-.00619**	**-.00029**	**.00017**	**.00002**	**.00025**	**.00029**	**-.01391**	**.00011**	**.00167**	**.00086**
Stddev	.00032	.00167	.00357	.00072	.00006	.00024	.00015	.00107	.01087	.00005	.00006	.00028
%RSD	44.964	57.630	57.630	243.21	35.457	1264.0	61.945	375.60	78.164	46.121	3.6348	32.486
#1	.00093	-.00171	-.00367	-.00080	.00022	-.00015	.00035	-.00047	-.00622	.00008	.00171	.00066
#2	.00048	-.00407	-.00871	.00021	.00013	.00019	.00014	.00105	-.02160	.00015	.00162	.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4110.4**	**49191.**	**5596.8**
Stddev	6.2	164.	1.4
%RSD	.15171	.33400	.02561
#1	4106.0	49075.	5595.8
#2	4114.8	49307.	5597.8

Sample Name: CCVL1171013 Acquired: 12/13/2011 16:03:13 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00994**	**.10441**	**.01530**	**.10555**	**.00976**	**.00101**	**.11172**	**.22438**	**.00495**	**.01046**	**.01040**	**.01512**	**.09862**	**3.2625**
Stddev	.00011	.00177	.00018	.00026	.00018	.00000	.00068	.00256	.00001	.00018	.00010	.00006	.00230	.0086
%RSD	1.0846	1.6926	1.1687	.24333	1.8580	.05168	.61175	1.1424	.12279	1.7235	.96327	.38292	2.3305	.26254
#1	.00987	.10316	.01517	.10537	.00963	.00101	.11220	.22256	.00495	.01033	.01033	.01516	.09699	3.2564
#2	.01002	.10566	.01543	.10573	.00989	.00101	.11124	.22619	.00494	.01059	.01047	.01508	.10024	3.2686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01272**	**.20642**	**.01016**	**.02041**	**1.2847**	**.04097**	**3.0615**	**.00857**	**.06858**	**.00939**	**.01254**	**.50224**	**1.0748**	**.10349**
Stddev	.00146	.00394	.00002	.00039	.0173	.00023	.0152	.00000	.00590	.00097	.00282	.00029	.0006	.00007
%RSD	11.449	1.9108	.17378	1.9115	1.3486	.55406	.49698	.01022	8.5983	10.378	22.474	.05729	.05729	.07078
#1	.01375	.20921	.01017	.02013	1.2724	.04113	3.0508	.00857	.06441	.00870	.01054	.50204	1.0744	.10344
#2	.01169	.20363	.01014	.02068	1.2970	.04081	3.0723	.00857	.07275	.01008	.01453	.50244	1.0752	.10354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01022**	**.01368**	**.01053**	**.01777**	**.07107**	**.00932**	**.02147**	**.01602**
Stddev	.00007	.00005	.00005	.00099	.00452	.00014	.00033	.00025
%RSD	.72759	.34393	.49672	5.5597	6.3540	1.4678	1.5385	1.5482
#1	.01017	.01371	.01050	.01708	.07426	.00922	.02171	.01619
#2	.01027	.01364	.01057	.01847	.06788	.00941	.02124	.01584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4249.4**	**50962.**	**5683.6**
Stddev	10.2	93.	37.3
%RSD	.23987	.18316	.65674
#1	4256.6	50896.	5710.0
#2	4242.2	51028.	5657.2

Sample Name: 280-23527-a-6-a Acquired: 12/13/2011 16:05:36 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.33907**	**.00809**	**.00831**	**2.6889**	**-.00002**	**.00314**	W **1876.7**	**.00085**	**.00061**
Stddev	.00039	.00058	.00011	.00006	.0107	.00003	.00083	17.7	.00014	.00040
%RSD	141.03	.17019	1.3652	.68273	.39677	124.52	26.371	.94544	16.366	65.570
#1	-.00056	.33866	.00801	.00827	2.6965	.00000	.00373	1889.3	.00075	.00090
#2	.00000	.33948	.00817	.00835	2.6814	-.00004	.00256	1864.2	.00095	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								500.00		
Low Limit								-.05000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00220**	**.63381**	**.05038**	**5.5534**	**.02267**	**.12670**	**.00538**	**.05670**	**86.001**	**-.00140**
Stddev	.00011	.00305	.00193	.0237	.00195	.00066	.00001	.00027	.032	.00008
%RSD	5.0138	.48117	3.8246	.42715	8.6119	.52455	.20312	.47231	.03688	5.6979
#1	.00213	.63596	.04902	5.5702	.02129	.12623	.00539	.05689	85.978	-.00145
#2	.00228	.63165	.05175	5.5366	.02405	.12717	.00537	.05651	86.023	-.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14821**	**.39376**	**1.7283**	W **-.01664**	**.03028**	**.61001**	**1.3054**	**.01165**	**1.5310**	**.00150**
Stddev	.00187	.00043	.0193	.00078	.00235	.00251	.0054	.00060	.0029	.00024
%RSD	1.2586	.10869	1.1184	4.6803	7.7540	.41123	.41123	5.1704	.18586	16.335
#1	.14689	.39346	1.7146	-.01609	.03194	.60823	1.3016	.01207	1.5330	.00132
#2	.14953	.39407	1.7420	-.01719	.02862	.61178	1.3092	.01122	1.5290	.00167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				2.0000						
Low Limit				-.01000						

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01111**	**-.00066**	W **-.05446**	**.00163**	**.01900**	**.00225**
Stddev	.00023	.00059	.02166	.00034	.00002	.00046
%RSD	2.0951	90.149	39.768	21.105	.12456	20.475
#1	.01095	-.00108	-.06978	.00188	.01898	.00257
#2	.01128	-.00024	-.03915	.00139	.01901	.00192
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			45.000			
Low Limit			-.05000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3520.3**	**41540.**	**5358.8**
Stddev	4.3	111.	3.2
%RSD	.12271	.26824	.06063
#1	3523.4	41461.	5356.5
#2	3517.2	41619.	5361.1

Sample Name: 280-23527-a-8-a Acquired: 12/13/2011 16:08:05 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**1.2129**	**.02861**	**.01358**	**2.8787**	**-.00007**	**.00082**	W **1753.0**	**.00077**	**.00023**
Stddev	.00035	.0011	.00332	.00022	.0130	.00002	.00234	5.5	.00019	.00028
%RSD	130.05	.08893	11.605	1.6261	.45072	27.561	285.73	.31377	24.460	122.53
#1	-.00002	1.2122	.02626	.01373	2.8695	-.00006	.00247	1756.9	.00090	.00003
#2	-.00052	1.2137	.03096	.01342	2.8879	-.00009	-.00083	1749.1	.00063	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								500.00		
Low Limit								-.05000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00238**	**.05982**	**.00638**	**5.5002**	**.02240**	**.10056**	**.00122**	**.04388**	**91.494**	**-.00144**
Stddev	.00008	.00004	.00239	.0657	.00174	.00033	.00002	.00043	.326	.00010
%RSD	3.2661	.06983	37.420	1.1946	7.7755	.33167	1.3649	.97089	.35622	7.0797
#1	.00232	.05985	.00469	5.4538	.02117	.10032	.00121	.04358	91.264	-.00136
#2	.00243	.05979	.00806	5.5467	.02363	.10080	.00123	.04419	91.725	-.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06830**	**.02952**	**1.6097**	W **-.01436**	**.03054**	**.99887**	**2.1376**	**.00607**	**1.6464**	**.00080**
Stddev	.00367	.00140	.0057	.00269	.00351	.00378	.0081	.00162	.0040	.00019
%RSD	5.3787	4.7379	.35656	18.747	11.493	.37879	.37879	26.658	.24315	24.014
#1	.07090	.02853	1.6056	-.01626	.03302	1.0015	2.1433	.00493	1.6436	.00094
#2	.06570	.03051	1.6137	-.01246	.02805	.99619	2.1319	.00722	1.6492	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				2.0000						
Low Limit				-.01000						

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00928**	**-.00339**	W **-.05452**	**.00372**	**.01417**	**.00097**
Stddev	.00003	.00164	.02330	.00001	.00011	.00130
%RSD	.28040	48.468	42.736	.28099	.75469	134.52
#1	.00930	-.00456	-.03804	.00371	.01410	.00189
#2	.00926	-.00223	-.07099	.00372	.01425	.00005
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			45.000			
Low Limit			-.05000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3551.1**	**42151.**	**5354.0**
Stddev	9.7	19.	5.8
%RSD	.27249	.04394	.10817
#1	3557.9	42164.	5358.1
#2	3544.2	42138.	5349.9

Sample Name: 280-23527-a-10-a Acquired: 12/13/2011 16:10:35 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.19879**	**.03976**	**.00713**	**1.7598**	**-.00004**	**.00231**	W **1707.0**	**-.00002**	**.00027**
Stddev	.00067	.00313	.00263	.00081	.0061	.00004	.00002	13.0	.00005	.00001
%RSD	72.035	1.5730	6.6081	11.420	.34433	99.012	1.0735	.76010	228.03	4.6024
#1	-.00141	.19658	.03791	.00770	1.7640	-.00001	.00229	1697.8	-.00005	.00028
#2	-.00046	.20100	.04162	.00655	1.7555	-.00008	.00232	1716.2	.00001	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								500.00		
Low Limit								-.05000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00941**	**.00978**	**.01386**	**4.8151**	**.02764**	**.09042**	**.00139**	**.20327**	**71.523**	**-.00152**
Stddev	.00008	.00022	.00112	.0214	.00086	.00164	.00008	.00003	.197	.00007
%RSD	.82729	2.2910	8.0523	.44402	3.1260	1.8117	6.1177	.01711	.27555	4.7108
#1	.00935	.00994	.01465	4.8302	.02826	.08926	.00133	.20330	71.662	-.00157
#2	.00946	.00963	.01307	4.8000	.02703	.09158	.00145	.20325	71.383	-.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05072**	**.02412**	**10.970**	W **-.01516**	**.02651**	**1.3414**	**2.8705**	**.00127**	**1.4262**	**.00048**
Stddev	.00022	.00021	.077	.00011	.00072	.0107	.0230	.00036	.0034	.00009
%RSD	.43684	.85216	.70196	.70829	2.7020	.80056	.80056	28.662	.23895	18.756
#1	.05088	.02398	10.916	-.01524	.02702	1.3490	2.8868	.00153	1.4286	.00042
#2	.05057	.02427	11.025	-.01509	.02600	1.3338	2.8543	.00101	1.4238	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				2.0000						
Low Limit				-.01000						

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00946**	**-.00054**	**-.03771**	**.00356**	**.00854**	**.00090**
Stddev	.00007	.00087	.05976	.00032	.00008	.00103
%RSD	.75345	161.78	158.46	9.1039	.89703	114.53
#1	.00951	.00008	-.07997	.00379	.00859	.00163
#2	.00941	-.00115	.00454	.00333	.00848	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3562.4**	**42146.**	**5460.1**
Stddev	.6	12.	18.4
%RSD	.01674	.02890	.33782
#1	3562.0	42155.	5473.2
#2	3562.8	42137.	5447.1

Sample Name: 280-23527-a-12-a Acquired: 12/13/2011 16:13:02 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.12998**	**.00997**	**.00451**	**.82696**	**-.00008**	**.00471**	W **1964.0**	**.00073**	**.00013**
Stddev	.00037	.00112	.00475	.00011	.00816	.00000	.00065	6.9	.00002	.00024
%RSD	152.74	.86286	47.649	2.3466	.98695	1.0432	13.756	.34967	3.1828	187.11
#1	-.00051	.12919	.01333	.00459	.82119	-.00008	.00425	1959.2	.00071	-.00004
#2	.00002	.13078	.00661	.00444	.83273	-.00008	.00516	1968.9	.00074	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								500.00		
Low Limit								-.05000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00331**	**.04679**	**.02745**	**3.8913**	**.02754**	**.06446**	**.00191**	**.08538**	**62.975**	**-.00167**
Stddev	.00007	.00034	.00135	.0068	.00284	.00088	.00009	.00029	.334	.00028
%RSD	1.9622	.73247	4.9355	.17448	10.311	1.3705	4.7364	.33532	.53044	17.090
#1	.00336	.04703	.02649	3.8865	.02553	.06383	.00185	.08518	62.739	-.00147
#2	.00327	.04655	.02841	3.8961	.02955	.06508	.00198	.08558	63.211	-.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01255**	**.17527**	**2.2053**	W **-.01545**	**.02289**	**.40257**	**.86151**	**.00241**	**1.4923**	**.00070**
Stddev	.00108	.00174	.0245	.00355	.00133	.02326	.04978	.00073	.0134	.00083
%RSD	8.6255	.99381	1.1122	22.961	5.8225	5.7777	5.7777	30.506	.89709	118.64
#1	.01331	.17403	2.1880	-.01796	.02384	.38613	.82631	.00189	1.4829	.00011
#2	.01178	.17650	2.2226	-.01294	.02195	.41902	.89670	.00293	1.5018	.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				2.0000						
Low Limit				-.01000						

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01102**	**.00006**	**-.02671**	**.00095**	**.01034**	**.00123**
Stddev	.00017	.00014	.00506	.00021	.00004	.00185
%RSD	1.5047	236.62	18.933	21.986	.40997	149.47
#1	.01113	.00015	-.02314	.00110	.01031	.00254
#2	.01090	-.00004	-.03029	.00080	.01037	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3516.8**	**41273.**	**5441.3**
Stddev	13.0	173.	27.7
%RSD	.36970	.41810	.50932
#1	3525.9	41395.	5460.9
#2	3507.6	41151.	5421.7

Sample Name: 280-23527-a-14-a Acquired: 12/13/2011 16:15:33 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99261 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.55133**	**.01234**	**7.1630**	**.81022**	**-.00009**	**.00222**	W **1682.7**	**-.00007**	**.00049**
Stddev	.00048	.00038	.00006	.0130	.00563	.00004	.00179	28.7	.00003	.00005
%RSD	517.93	.06938	.48003	.18125	.69547	40.506	80.455	1.7060	51.997	10.002
#1	.00043	.55160	.01230	7.1722	.80623	-.00012	.00096	1662.4	-.00004	.00053
#2	-.00025	.55106	.01238	7.1538	.81420	-.00007	.00349	1703.0	-.00009	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								500.00		
Low Limit								-.05000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00282**	**.02656**	**.03453**	**3.7463**	**.02227**	**.10436**	**.00126**	**.10238**	**41.815**	**-.00084**
Stddev	.00008	.00021	.00009	.0099	.00202	.00206	.00002	.00032	.016	.00025
%RSD	2.9028	.78180	.25799	.26522	9.0891	1.9730	1.2913	.31441	.03912	29.644
#1	.00288	.02671	.03447	3.7392	.02370	.10291	.00125	.10215	41.803	-.00101
#2	.00276	.02641	.03459	3.7533	.02084	.10582	.00127	.10260	41.826	-.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00684**	**3.3504**	**10.307**	**.04617**	**.02175**	**1.0210**	**2.1850**	**.00361**	**1.1553**	**-.00040**
Stddev	.00232	.0112	.050	.00080	.00092	.0047	.0101	.00008	.0045	.00136
%RSD	33.905	.33273	.48341	1.7229	4.2515	.46376	.46376	2.0835	.38668	341.64
#1	.00848	3.3583	10.342	.04673	.02240	1.0177	2.1779	.00356	1.1521	.00056
#2	.00520	3.3425	10.272	.04561	.02109	1.0244	2.1922	.00366	1.1584	-.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00917**	**-.00140**	**-.03083**	**.00094**	**.01015**	**.00076**
Stddev	.00000	.00149	.01944	.00037	.00025	.00101
%RSD	.00164	106.53	63.064	39.651	2.4885	134.02
#1	.00917	-.00246	-.04458	.00067	.00997	.00004
#2	.00916	-.00035	-.01708	.00120	.01033	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3563.8**	**42238.**	**5544.2**
Stddev	2.4	13.	18.4
%RSD	.06607	.03071	.33111
#1	3565.5	42229.	5557.2
#2	3562.1	42247.	5531.2

Sample Name: 280-23334-h-2-c@10 Acquired: 12/13/2011 16:18:01 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 98660 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.01161**	**.01371**	**.47172**	**.23485**	**.00005**	**.00121**	**16.987**	**.00016**	**.00354**
Stddev	.00076	.00176	.00166	.00564	.00025	.00005	.00125	.014	.00000	.00014
%RSD	600.28	15.114	12.105	1.1964	.10834	105.95	103.65	.08509	.68981	3.9239
#1	-.00067	.01285	.01488	.47571	.23503	.00009	.00032	16.997	.00016	.00364
#2	.00041	.01037	.01253	.46773	.23467	.00001	.00209	16.976	.00017	.00345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00568**	**.00041**	**.82803**	**30.262**	**.01011**	**6.3097**	**.70114**	**.00052**	**102.69**	**.01378**
Stddev	.00021	.00015	.00442	.040	.00105	.0404	.00494	.00021	.17	.00038
%RSD	3.6553	36.786	.53328	.13357	10.358	.64019	.70504	41.074	.16538	2.7364
#1	.00582	.00030	.82491	30.291	.00937	6.3382	.70464	.00037	102.81	.01404
#2	.00553	.00052	.83115	30.233	.01085	6.2811	.69765	.00067	102.57	.01351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.36348**	**.00100**	**1.7351**	**.00076**	**.00055**	**1.4764**	**3.1595**	**.00010**	**.18723**	**.00068**
Stddev	.00224	.00006	.0169	.00019	.00140	.0055	.0117	.00001	.00077	.00167
%RSD	.61726	6.1633	.97180	24.523	254.93	.36908	.36908	11.073	.41299	246.41
#1	.36507	.00105	1.7470	.00063	-.00044	1.4803	3.1678	.00009	.18778	-.00050
#2	.36190	.00096	1.7232	.00089	.00154	1.4726	3.1513	.00011	.18669	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00640**	**-.00030**	**-.02424**	**.01006**	**.00416**	**.00394**
Stddev	.00023	.00176	.00230	.00011	.00022	.00047
%RSD	3.6441	589.99	9.4734	1.0617	5.1877	11.903
#1	.00656	-.00154	-.02586	.01013	.00401	.00361
#2	.00623	.00095	-.02262	.00998	.00431	.00427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4035.1**	**47840.**	**5782.6**
Stddev	15.4	149.	28.7
%RSD	.38183	.31129	.49572
#1	4024.2	47735.	5802.9
#2	4046.0	47946.	5762.3

Sample Name: CCVH-1169743 Acquired: 12/13/2011 16:20:24 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**48.950**	**.00192**	**.00671**	**.00064**	**-.00014**	**.98803**	**.07102**	**-.00081**	**.00080**	**.00036**	**-.00173**
Stddev	.00011	.067	.00331	.00021	.00001	.00004	.00083	.00575	.00001	.00008	.00008	.00004
%RSD	15.840	.13590	172.66	3.2021	2.2908	29.472	.08358	8.0898	1.2841	9.4694	21.127	2.2429
#1	-.00077	48.903	-.00042	.00686	.00063	-.00011	.98745	.07508	-.00081	.00086	.00031	-.00170
#2	-.00061	48.997	.00426	.00655	.00065	-.00017	.98861	.06696	-.00080	.00075	.00041	-.00175
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None
Value												
Range												

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.212**	**.39978**	**.00162**	**-.00135**	**-.00147**	**-.00177**	**241.11**	**.00083**	**.00233**	**-.00126**	W **4.7494**	**-.00325**
Stddev	.054	.02343	.00005	.00451	.00001	.00003	.39	.00030	.00055	.00119	.0097	.00301
%RSD	.11007	5.8607	3.1572	334.45	.77021	1.4439	.16329	36.718	23.571	94.957	.20446	92.715
#1	49.250	.41635	.00166	-.00453	-.00148	-.00179	240.83	.00104	.00272	-.00041	4.7425	-.00538
#2	49.174	.38322	.00159	.00184	-.00146	-.00175	241.39	.00061	.00195	-.00210	4.7563	-.00112
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None	None	None	Chk Warn	None
Value											5.0000	
Range											-5.0000%	

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00536**	**.02286**	**.04892**	**.00278**	**.00049**	W **4.7278**	**.00178**	**-.00444**	**9.8737**	**-.00045**	**.00196**	**-.01375**
Stddev	.00329	.00406	.00869	.00064	.00006	.0482	.00028	.00022	.1132	.00064	.00019	.00293
%RSD	61.364	17.773	17.773	22.863	11.438	1.0190	15.917	4.8609	1.1462	143.66	9.7871	21.292
#1	.00769	.02573	.05507	.00323	.00053	4.6938	.00158	-.00428	9.7936	-.00090	.00182	-.01168
#2	.00303	.01999	.04277	.00233	.00045	4.7619	.00198	-.00459	9.9537	.00001	.00209	-.01582
Check ?	None	None	None	None	None	Chk Warn	None	None	Chk Pass	None	None	None
Value						5.0000						
Range						-5.0000%						

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4006.5**	**47789.**	**5722.0**
Stddev	9.6	394.	5.7
%RSD	.23880	.82355	.09999
#1	4013.2	48067.	5718.0
#2	3999.7	47510.	5726.1

Sample Name: CCV-1169927 Acquired: 12/13/2011 16:22:46 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47233**	**.48750**	**.95312**	**.48143**	**.47541**	**.49114**	**-.00018**	**4.9130**	**.48354**	**.48874**	**.48950**	**.48469**	**2.4208**
Stddev	.00250	.00167	.00275	.00136	.00145	.00337	.00050	.0259	.00059	.00027	.00123	.00117	.0165
%RSD	.53020	.34345	.28884	.28175	.30547	.68640	270.47	.52690	.12265	.05476	.25209	.24103	.68247
#1	.47410	.48632	.95117	.48239	.47438	.48875	.00017	4.8947	.48396	.48893	.49038	.48387	2.4091
#2	.47056	.48869	.95507	.48047	.47643	.49352	-.00054	4.9313	.48312	.48855	.48863	.48552	2.4325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.634**	**.98615**	**18.904**	**.47501**	**.48781**	**5.0114**	**.48827**	**.95322**	**.96006**	**.00334**	**.95235**	**.94772**	**4.8412**
Stddev	.314	.00307	.016	.00066	.00115	.0295	.00102	.00414	.00052	.00424	.00192	.00345	.0097
%RSD	.64481	.31112	.08372	.13934	.23477	.58891	.20903	.43413	.05425	126.93	.20184	.36399	.19943
#1	48.412	.98398	18.893	.47454	.48862	4.9906	.48899	.95615	.96043	.00633	.95099	.95016	4.8481
#2	48.856	.98832	18.915	.47548	.48700	5.0323	.48755	.95030	.95969	.00034	.95371	.94528	4.8344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.360**	**.97400**	**.49259**	**-.00080**	**.48841**	**.97527**	**-.01376**	**.47450**	**.47270**	**.48073**
Stddev	.021	.00035	.00190	.00079	.00033	.00034	.00641	.00113	.00144	.00339
%RSD	.19943	.03610	.38620	98.613	.06830	.03440	46.550	.23715	.30510	.70536
#1	10.375	.97425	.49125	-.00136	.48818	.97503	-.01829	.47371	.47372	.47833
#2	10.346	.97375	.49394	-.00024	.48865	.97551	-.00923	.47530	.47168	.48313
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4132.1**	**49361.**	**5681.4**
Stddev	2.8	52.	25.2
%RSD	.06751	.10573	.44321
#1	4134.1	49398.	5699.3
#2	4130.1	49325.	5663.6

Sample Name: CCB Acquired: 12/13/2011 16:24:58 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.00240**	**.00050**	F **.00326**	**.00000**	**-.00002**	**.00103**	**.01898**	**.00003**	**.00013**	**.00015**	**-.00024**
Stddev	.00054	.00018	.00086	.00001	.00008	.00004	.00026	.00199	.00004	.00003	.00012	.00002
%RSD	222.96	7.4498	171.99	.43295	1965.9	259.76	25.433	10.460	133.08	24.180	80.486	7.5972
#1	-.00063	-.00227	.00111	.00325	.00006	-.00005	.00122	.02038	.00000	.00011	.00007	-.00025
#2	.00014	-.00252	-.00011	.00327	-.00005	.00001	.00085	.01758	.00005	.00015	.00024	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00312								
Low Limit				-.00312								

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00159**	**.15956**	**.00076**	**.00049**	**.00002**	**.00027**	W **.16340**	**-.00001**	**-.00233**	**-.00095**	**.01826**	**.00062**
Stddev	.00039	.05792	.00031	.00059	.00001	.00017	.00553	.00004	.00176	.00100	.00428	.00158
%RSD	24.361	36.300	40.349	121.84	45.957	62.108	3.3868	461.46	75.687	105.64	23.456	254.84
#1	.00131	.20051	.00054	.00090	.00003	.00039	.15949	-.00003	-.00357	-.00165	.01523	-.00050
#2	.00186	.11860	.00098	.00007	.00002	.00015	.16732	.00002	-.00108	-.00024	.02128	.00173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							.09160					
Low Limit							-.09160					

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**-.01247**	**-.02668**	**.00025**	**.00003**	**-.00046**	**.00013**	**.00098**	**-.02540**	**-.00002**	**.00116**	**.00025**
Stddev	.00362	.00550	.01176	.00006	.00001	.00066	.00008	.00008	.01536	.00040	.00005	.00090
%RSD	181.38	44.083	44.083	25.325	48.711	144.79	62.696	8.5315	60.477	1745.1	4.3669	352.84
#1	-.00056	-.00858	-.01836	.00021	.00004	.00001	.00007	.00092	-.03626	.00026	.00119	.00089
#2	.00456	-.01635	-.03500	.00030	.00002	-.00092	.00019	.00104	-.01454	-.00031	.00112	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4141.2**	**50323.**	**5685.2**
Stddev	1.9	5.	44.5
%RSD	.04635	.00962	.78357
#1	4139.8	50326.	5716.7
#2	4142.5	50320.	5653.7

Sample Name: CCVL1171013 Acquired: 12/13/2011 16:27:24 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01002**	**.10701**	**.01407**	**.10625**	**.00967**	**.00101**	**.11364**	**.23429**	**.00509**	**.01082**	**.01037**	**.01536**	**.11023**	**3.1786**
Stddev	.00035	.00049	.00233	.00033	.00010	.00002	.00184	.00222	.00020	.00011	.00003	.00022	.00383	.0076
%RSD	3.4769	.46070	16.552	.30969	.98712	2.0364	1.6198	.94786	3.8968	1.0395	.29127	1.4031	3.4725	.24061
#1	.00977	.10736	.01572	.10648	.00974	.00102	.11494	.23272	.00523	.01074	.01035	.01520	.11294	3.1840
#2	.01026	.10666	.01242	.10601	.00960	.00099	.11234	.23586	.00495	.01090	.01039	.01551	.10753	3.1732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01233**	**.20627**	**.01046**	**.02033**	**1.2008**	**.04159**	**3.0986**	**.00901**	**.02202**	**.00864**	**.01299**	**.48785**	**1.0440**	**.10653**
Stddev	.00031	.00316	.00015	.00006	.0047	.00035	.0042	.00078	.00338	.00018	.00077	.00618	.0132	.00076
%RSD	2.4981	1.5344	1.4021	.28339	.38902	.84521	.13619	8.6167	15.329	2.0906	5.9205	1.2659	1.2659	.71534
#1	.01254	.20403	.01036	.02037	1.1975	.04184	3.1016	.00956	.02441	.00877	.01353	.49221	1.0533	.10707
#2	.01211	.20851	.01056	.02029	1.2041	.04134	3.0956	.00846	.01963	.00851	.01244	.48348	1.0346	.10599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01005**	**.01380**	**.01058**	**.01734**	**.05784**	**.00977**	**.02446**	**.01669**
Stddev	.00009	.00028	.00019	.00151	.01350	.00047	.00060	.00003
%RSD	.84909	2.0614	1.7487	8.7056	23.339	4.8394	2.4617	.19322
#1	.01011	.01360	.01045	.01840	.04830	.01011	.02403	.01671
#2	.00999	.01401	.01071	.01627	.06739	.00944	.02489	.01667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4224.1**	**51238.**	**5882.8**
Stddev	.8	577.	30.5
%RSD	.01938	1.1263	.51811
#1	4224.7	51646.	5861.3
#2	4223.6	50830.	5904.4

Sample Name: mb 280-99301/1-a Acquired: 12/13/2011 16:29:47 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99301 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**-.00380**	**-.00026**	**.00111**	**-.00001**	**-.00005**	**.00531**	**.00547**	**-.00003**	**.00023**
Stddev	.00050	.00113	.00045	.00002	.00017	.00002	.00010	.00077	.00024	.00001
%RSD	59.070	29.802	173.02	2.2174	1712.2	47.265	1.8800	14.125	884.91	4.3031
#1	-.00049	-.00460	-.00058	.00113	-.00013	-.00006	.00538	.00492	.00014	.00022
#2	-.00120	-.00300	.00006	.00109	.00011	-.00003	.00524	.00601	-.00019	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00024**	**.00247**	**.10327**	**.00114**	**.00077**	**.00017**	**-.00011**	**.14490**	**.00003**
Stddev	.00004	.00008	.00020	.00303	.00094	.00010	.00002	.00016	.00859	.00001
%RSD	78.105	33.369	8.1182	2.9356	83.130	12.931	11.979	144.04	5.9278	28.709
#1	.00009	-.00018	.00233	.10113	.00180	.00070	.00015	-.00023	.15097	.00003
#2	.00003	-.00030	.00261	.10542	.00047	.00084	.00018	.00000	.13882	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00172**	**-.00063**	F **.02120**	**-.00203**	**.00019**	**.00168**	**.00360**	**-.00106**	**.00004**	**.00050**
Stddev	.00081	.00012	.00239	.00081	.00277	.01268	.02713	.00006	.00008	.00017
%RSD	47.188	18.460	11.292	39.748	1454.2	754.18	754.18	5.8871	201.95	33.545
#1	-.00229	-.00055	.02289	-.00146	-.00177	-.00728	-.01559	-.00102	-.00002	.00061
#2	-.00114	-.00071	.01950	-.00260	.00215	.01065	.02278	-.00111	.00009	.00038
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.01000							
Low Limit			-.01000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00184**	**-.02472**	**-.00034**	**.00230**	**.00158**
Stddev	.00009	.00011	.00347	.00006	.00030	.00025
%RSD	211.57	5.7482	14.041	16.434	13.073	15.701
#1	.00011	.00191	-.02717	-.00037	.00251	.00141
#2	-.00002	.00176	-.02226	-.00030	.00209	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4239.4**	**51223.**	**5846.2**
Stddev	2.8	23.	66.2
%RSD	.06524	.04489	1.1329
#1	4237.5	51239.	5893.0
#2	4241.4	51207.	5799.4

Sample Name: lcs 280-99301/2-a Acquired: 12/13/2011 16:32:13 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99301 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04951**	**1.9186**	**.99484**	**1.0121**	**1.9010**	**.04875**	**2.0699**	**47.103**	**.09852**	**.47991**
Stddev	.00004	.0091	.00092	.0026	.0103	.00032	.0056	.124	.00010	.00092
%RSD	.07179	.47386	.09255	.25230	.53968	.65143	.26799	.26419	.09911	.19126
#1	.04948	1.9250	.99549	1.0103	1.9083	.04897	2.0738	47.191	.09859	.48056
#2	.04953	1.9122	.99418	1.0140	1.8938	.04853	2.0659	47.015	.09845	.47926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19464**	**.24520**	**.94591**	**48.429**	**.97095**	**48.287**	**.48157**	**.96275**	**50.715**	**.48689**
Stddev	.00040	.00029	.00098	.121	.00466	.035	.00098	.00185	.286	.00135
%RSD	.20606	.11715	.10381	.24973	.47947	.07237	.20397	.19252	.56472	.27664
#1	.19492	.24541	.94522	48.515	.97425	48.312	.48227	.96406	50.513	.48785
#2	.19435	.24500	.94661	48.344	.96766	48.263	.48088	.96144	50.918	.48594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.083**	**.48699**	**.01233**	**.49049**	**1.9994**	**9.5927**	F **20.528**	**1.9292**	**.97716**	**.99178**
Stddev	.003	.00219	.01224	.00205	.0060	.0109	.023	.0047	.00332	.00287
%RSD	.03271	.45001	99.259	.41811	.29882	.11355	.11355	.24270	.33956	.28889
#1	10.085	.48854	.02098	.48904	2.0037	9.6004	20.545	1.9325	.97951	.98975
#2	10.081	.48544	.00368	.49194	1.9952	9.5850	20.512	1.9259	.97482	.99381
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							24.610			
Low Limit							20.100			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98251**	**1.9634**	**2.0892**	**.48040**	**.47576**	**.48300**
Stddev	.00048	.0038	.0204	.00215	.00107	.00432
%RSD	.04927	.19565	.97553	.44822	.22399	.89462
#1	.98286	1.9607	2.1036	.47888	.47651	.48605
#2	.98217	1.9661	2.0748	.48192	.47501	.47994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4058.8**	**48256.**	**5762.2**
Stddev	.4	89.	78.5
%RSD	.00905	.18449	1.3618
#1	4058.5	48318.	5817.7
#2	4059.0	48193.	5706.7

Sample Name: 280-23472-d-1-a Acquired: 12/13/2011 16:34:21 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99301 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.00397**	**.05889**	**.04827**	**.07259**	**.00010**	**.00476**	**167.94**	**.00021**	**.00652**
Stddev	.00014	.00077	.00169	.00129	.00006	.00002	.00227	.30	.00023	.00000
%RSD	17.226	19.498	2.8708	2.6683	.07723	20.113	47.736	.17759	106.24	.02399
#1	-.00093	.00342	.05770	.04736	.07255	.00011	.00637	167.73	.00005	.00652
#2	-.00073	.00451	.06009	.04918	.07263	.00008	.00316	168.15	.00038	.00652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00080**	**31.873**	**.29824**	**.00170**	**91.440**	**3.7718**	**.00415**	**22.955**	**.00207**
Stddev	.00007	.00002	.037	.01197	.00166	.155	.0339	.00014	.138	.00016
%RSD	9.5774	2.2266	.11584	4.0126	97.720	.16986	.89764	3.2551	.60017	7.5562
#1	.00076	.00078	31.846	.30670	.00053	91.550	3.7958	.00405	22.858	.00218
#2	.00066	.00081	31.899	.28978	.00287	91.330	3.7479	.00425	23.053	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16962**	**-.00027**	**8.9088**	**-.00511**	**-.00128**	**14.263**	**30.523**	**-.00036**	**.31553**	**.00086**
Stddev	.00008	.00018	.0440	.00148	.00082	.077	.165	.00046	.00129	.00280
%RSD	.04520	64.636	.49404	28.876	63.734	.54166	.54166	127.42	.40817	323.53
#1	.16968	-.00040	8.8776	-.00407	-.00070	14.208	30.406	-.00069	.31462	-.00111
#2	.16957	-.00015	8.9399	-.00616	-.00186	14.318	30.640	-.00004	.31644	.00284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.00358**	**-.04595**	**.00305**	**.00374**	**.00090**
Stddev	.00048	.00010	.01022	.00006	.00025	.00023
%RSD	23.638	2.6916	22.239	1.9492	6.6290	25.655
#1	.00238	.00352	-.03872	.00309	.00357	.00107
#2	.00170	.00365	-.05318	.00301	.00392	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3965.2**	**47749.**	**5795.8**
Stddev	13.3	96.	24.1
%RSD	.33468	.20101	.41554
#1	3974.5	47681.	5812.8
#2	3955.8	47817.	5778.8

Sample Name: 280-23472-d-1-aSD@5 Acquired: 12/13/2011 16:36:49 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99301 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**-.00234**	**.00986**	**.01035**	**.01439**	**-.00001**	**.00102**	**33.922**	**.00020**	**.00170**
Stddev	.00001	.00155	.00305	.00002	.00000	.00004	.00117	.014	.00005	.00004
%RSD	3.0235	66.544	30.963	.18524	.01604	280.15	115.14	.04067	22.721	2.1788
#1	-.00040	-.00343	.00770	.01036	.01439	.00001	.00019	33.912	.00024	.00172
#2	-.00042	-.00124	.01201	.01033	.01439	-.00004	.00185	33.931	.00017	.00167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00005**	**6.4555**	**.14592**	**.00167**	**17.539**	**.77560**	**.00066**	**4.4753**	**.00048**
Stddev	.00007	.00002	.0050	.01544	.00017	.059	.00073	.00030	.0125	.00030
%RSD	33.241	33.256	.07742	10.581	10.463	.33813	.09438	44.745	.27919	61.950
#1	.00025	.00006	6.4519	.13500	.00179	17.581	.77612	.00045	4.4842	.00070
#2	.00015	.00004	6.4590	.15684	.00154	17.497	.77508	.00087	4.4665	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03224**	**.00131**	**1.6408**	**-.00193**	**.00074**	**2.7974**	**5.9865**	**-.00008**	**.06332**	**-.00026**
Stddev	.00060	.00030	.0042	.00008	.00256	.0155	.0331	.00051	.00007	.00018
%RSD	1.8707	22.663	.25842	4.3186	346.60	.55312	.55312	621.36	.11732	70.514
#1	.03266	.00110	1.6438	-.00199	-.00107	2.7865	5.9631	-.00044	.06327	-.00039
#2	.03181	.00152	1.6378	-.00187	.00255	2.8084	6.0099	.00028	.06338	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.00120**	**-.00667**	**.00071**	**.00367**	**.00158**
Stddev	.00036	.00063	.02577	.00026	.00007	.00067
%RSD	57.562	52.633	386.17	36.285	1.7958	42.500
#1	.00089	.00076	.01155	.00090	.00371	.00111
#2	.00038	.00165	-.02490	.00053	.00362	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4095.6**	**49471.**	**5760.6**
Stddev	12.0	112.	11.1
%RSD	.29191	.22722	.19301
#1	4087.1	49391.	5768.5
#2	4104.0	49550.	5752.8

Sample Name: 280-23472-d-1-b ms Acquired: 12/13/2011 16:39:12 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99301 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05041**	**1.8954**	**1.0741**	**1.0692**	**1.9717**	**.04858**	F **2.1217**	**208.99**	**.10203**	**.48452**
Stddev	.00037	.0005	.0016	.0044	.0080	.00043	.0159	.24	.00098	.00040
%RSD	.73460	.02738	.14776	.40960	.40458	.88789	.75015	.11698	.95908	.08229
#1	.05067	1.8950	1.0730	1.0661	1.9774	.04889	2.1104	208.82	.10133	.48424
#2	.05015	1.8958	1.0752	1.0723	1.9661	.04828	2.1329	209.16	.10272	.48481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19670**	**.25054**	**31.982**	**49.761**	**.99722**	**139.43**	**4.1581**	**.97878**	**73.829**	**.48718**
Stddev	.00029	.00059	.182	.258	.00481	.28	.0013	.00318	.301	.00115
%RSD	.14541	.23691	.56999	.51864	.48262	.19725	.03037	.32505	.40794	.23555
#1	.19650	.25096	32.110	49.944	1.0006	139.24	4.1590	.97653	74.042	.48637
#2	.19690	.25012	31.853	49.579	.99381	139.63	4.1572	.98103	73.616	.48799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **10.575**	**.48119**	**8.8002**	**.49831**	**2.0098**	**23.556**	**50.410**	**1.9331**	**1.2941**	**1.0036**
Stddev	.033	.00108	.0239	.00052	.0192	.186	.399	.0021	.0023	.0002
%RSD	.31086	.22454	.27116	.10364	.95421	.79139	.79139	.10785	.17984	.02421
#1	10.552	.48043	8.7833	.49795	1.9962	23.688	50.692	1.9316	1.2957	1.0034
#2	10.598	.48195	8.8171	.49868	2.0233	23.424	50.128	1.9346	1.2924	1.0037
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99126**	**1.9244**	**2.0751**	**.48322**	**.46860**	**.47394**
Stddev	.00307	.0060	.0144	.00122	.00163	.00400
%RSD	.30940	.31304	.69298	.25276	.34746	.84354
#1	.98909	1.9202	2.0649	.48236	.46745	.47677
#2	.99342	1.9287	2.0853	.48408	.46975	.47111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3894.7**	**46600.**	**5767.4**
Stddev	6.8	42.	18.0
%RSD	.17379	.08950	.31225
#1	3899.5	46570.	5754.7
#2	3889.9	46629.	5780.2

Sample Name: 280-23472-d-1-c msd Acquired: 12/13/2011 16:41:27 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99301 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05065**	**1.9286**	**1.0974**	**1.0930**	**2.0338**	**.04962**	F **2.1561**	**215.17**	**.10343**	**.49265**
Stddev	.00045	.0663	.0340	.0369	.0107	.00020	.0765	.89	.00368	.01655
%RSD	.88067	3.4391	3.0976	3.3742	.52752	.40629	3.5460	.41220	3.5589	3.3584
#1	.05033	1.8817	1.0734	1.0670	2.0413	.04976	2.1021	215.79	.10083	.48095
#2	.05097	1.9755	1.1214	1.1191	2.0262	.04948	2.2102	214.54	.10604	.50435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20026**	**.25212**	**32.929**	**50.709**	**1.0206**	**138.79**	**4.2236**	**1.0005**	**74.910**	**.49379**
Stddev	.00593	.00054	.146	.166	.0063	.23	.0426	.0313	.368	.01543
%RSD	2.9634	.21582	.44210	.32818	.61906	.16824	1.0088	3.1254	.49186	3.1252
#1	.19606	.25174	33.032	50.827	1.0250	138.96	4.2537	.97842	75.170	.48287
#2	.20445	.25251	32.826	50.591	1.0161	138.63	4.1935	1.0226	74.649	.50470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **10.757**	**.49235**	**9.0239**	**.50890**	**2.0637**	**24.178**	**51.740**	**1.9755**	**1.3204**	**1.0052**
Stddev	.351	.01302	.3049	.02017	.0611	.107	.228	.0668	.0059	.0032
%RSD	3.2673	2.6435	3.3791	3.9635	2.9625	.44135	.44135	3.3832	.44380	.32221
#1	10.508	.48315	8.8083	.49464	2.0205	24.253	51.902	1.9283	1.3245	1.0075
#2	11.005	.50156	9.2395	.52316	2.1070	24.102	51.579	2.0228	1.3163	1.0029
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99000**	**1.9570**	**2.0961**	**.48501**	**.46399**	**.49249**
Stddev	.00152	.0676	.0062	.00063	.00505	.00240
%RSD	.15394	3.4537	.29770	.13005	1.0889	.48827
#1	.99108	1.9092	2.0917	.48546	.46756	.49079
#2	.98893	2.0048	2.1005	.48456	.46042	.49420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3842.7**	**46632.**	**5666.6**
Stddev	90.2	59.	6.9
%RSD	2.3478	.12675	.12134
#1	3906.5	46590.	5671.5
#2	3778.9	46673.	5661.7

Sample Name: 280-23472-d-1-aPDS Acquired: 12/13/2011 16:43:39 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99301 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04239**	**1.1410**	**.28991**	**.15306**	**.18168**	**.05632**	**.00444**	**188.28**	**.05948**	**.06124**
Stddev	.00020	.0047	.00249	.00085	.00123	.00010	.00091	.01	.00020	.00010
%RSD	.46135	.41532	.85796	.55438	.67676	.18054	20.392	.00594	.32874	.16376
#1	.04253	1.1377	.28815	.15246	.18081	.05624	.00380	188.29	.05934	.06117
#2	.04225	1.1444	.29167	.15366	.18255	.05639	.00508	188.28	.05962	.06131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05784**	**.05917**	**32.806**	**22.969**	**.11953**	**113.62**	**3.8401**	**.05252**	**46.523**	**.05801**
Stddev	.00047	.00007	.041	.044	.00009	.09	.0255	.00028	.035	.00013
%RSD	.81808	.11439	.12632	.19331	.07385	.07604	.66480	.53056	.07562	.22050
#1	.05751	.05913	32.777	22.937	.11947	113.55	3.8581	.05272	46.548	.05792
#2	.05818	.05922	32.835	23.000	.11959	113.68	3.8220	.05232	46.498	.05810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **2.5589**	**.11268**	**8.9635**	**.09734**	**.23875**	**19.076**	**40.822**	**.09812**	**.37180**	**.23069**
Stddev	.0100	.00020	.0332	.00044	.00275	.005	.011	.00071	.00090	.00546
%RSD	.39181	.18109	.37063	.45437	1.1515	.02661	.02661	.72056	.24274	2.3667
#1	2.5660	.11254	8.9400	.09765	.23680	19.079	40.830	.09762	.37116	.23455
#2	2.5518	.11283	8.9869	.09703	.24069	19.072	40.814	.09862	.37244	.22683
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05241**	**.22819**	**.54951**	**.05880**	**.21900**	**.04873**
Stddev	.00055	.00071	.03891	.00052	.00153	.00027
%RSD	1.0426	.30936	7.0804	.89039	.69805	.55567
#1	.05203	.22769	.57703	.05917	.21791	.04854
#2	.05280	.22869	.52200	.05843	.22008	.04893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3889.6**	**46532.**	**5742.9**
Stddev	.4	31.	3.8
%RSD	.00913	.06626	.06645
#1	3889.9	46554.	5740.2
#2	3889.4	46510.	5745.6

Sample Name: 280-23548-b-1-a Acquired: 12/13/2011 16:46:01 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99301 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00740**	**.05657**	**.03866**	**.28399**	**.00003**	**.00615**	**161.00**	**.00002**	**.00236**
Stddev	.00047	.00042	.00122	.00022	.00014	.00000	.00140	.85	.00017	.00003
%RSD	113.83	5.6758	2.1581	.56836	.04980	15.415	22.796	.52944	934.41	1.2726
#1	-.00008	.00711	.05571	.03851	.28409	.00003	.00516	161.60	-.00010	.00234
#2	-.00075	.00770	.05744	.03882	.28389	.00003	.00714	160.40	.00014	.00238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**.00093**	**23.225**	**.50597**	**.00422**	**87.419**	**4.6985**	**.00260**	**40.332**	**.00056**
Stddev	.00004	.00021	.062	.01660	.00044	.313	.0000	.00021	.432	.00006
%RSD	5.1263	22.409	.26667	3.2818	10.537	.35858	.00013	8.0718	1.0714	10.527
#1	.00075	.00078	23.268	.49423	.00391	87.198	4.6985	.00245	40.637	.00052
#2	.00070	.00108	23.181	.51771	.00454	87.641	4.6985	.00275	40.026	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11898**	**.00076**	**.12008**	**-.00393**	**-.00067**	**12.443**	**26.629**	**-.00121**	**.34836**	**-.00056**
Stddev	.00133	.00137	.00478	.00093	.00038	.080	.171	.00076	.00143	.00107
%RSD	1.1202	179.78	3.9783	23.586	57.247	.64200	.64200	62.926	.41149	189.18
#1	.11992	-.00021	.11670	-.00327	-.00040	12.500	26.750	-.00067	.34937	-.00132
#2	.11804	.00173	.12346	-.00459	-.00094	12.387	26.508	-.00175	.34734	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**.00347**	**-.02114**	**.00170**	**.00572**	**.00193**
Stddev	.00001	.00082	.04651	.00008	.00025	.00093
%RSD	.82580	23.659	220.01	4.4216	4.3466	48.506
#1	.00121	.00405	.01175	.00175	.00555	.00259
#2	.00122	.00289	-.05403	.00164	.00590	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3923.1**	**46918.**	**5721.5**
Stddev	9.5	273.	19.4
%RSD	.24223	.58286	.33854
#1	3916.4	47111.	5707.8
#2	3929.8	46724.	5735.2

Sample Name: 280-23548-b-4-a Acquired: 12/13/2011 16:48:29 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99301 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00308**	**.00089**	**.04331**	**.06252**	**.00008**	**.00560**	**88.862**	**.00017**	**.00026**
Stddev	.00037	.00217	.00309	.00018	.00023	.00008	.00082	.161	.00002	.00002
%RSD	244.98	70.487	347.18	.42396	.36213	102.19	14.741	.18162	9.4270	7.9954
#1	.00041	.00155	.00307	.04318	.06236	.00014	.00501	88.748	.00018	.00027
#2	-.00011	.00462	-.00129	.04343	.06268	.00002	.00618	88.976	.00015	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00177**	**.00087**	**.01321**	**.71216**	**.00389**	**43.568**	**.02790**	**.00086**	**8.8781**	**.00067**
Stddev	.00022	.00009	.00070	.00494	.00085	.070	.00006	.00031	.0264	.00027
%RSD	12.683	10.352	5.3231	.69337	21.782	.16029	.22982	35.843	.29697	40.275
#1	.00161	.00081	.01370	.71565	.00449	43.519	.02785	.00108	8.8595	.00048
#2	.00193	.00094	.01271	.70866	.00329	43.618	.02794	.00064	8.8968	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03268**	**-.00032**	**19.829**	**-.00208**	**.00188**	**11.199**	**23.966**	**-.00095**	**.13835**	**.00000**
Stddev	.00056	.00010	.108	.00036	.00150	.036	.077	.00030	.00048	.00145
%RSD	1.7032	30.853	.54495	17.239	80.014	.31952	.31952	31.171	.34702	920410.
#1	.03308	-.00025	19.905	-.00182	.00082	11.174	23.912	-.00116	.13801	.00103
#2	.03229	-.00038	19.752	-.00233	.00294	11.224	24.020	-.00074	.13869	-.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**.00274**	**-.02306**	**.00098**	**.00807**	**.00190**
Stddev	.00010	.00010	.02065	.00020	.00020	.00017
%RSD	10.696	3.8259	89.542	20.761	2.5053	9.0542
#1	.00086	.00266	-.03766	.00112	.00793	.00177
#2	.00100	.00281	-.00846	.00083	.00822	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4000.3**	**48063.**	**5722.7**
Stddev	2.5	433.	20.9
%RSD	.06206	.90141	.36482
#1	4002.0	48370.	5737.4
#2	3998.5	47757.	5707.9

Sample Name: 280-23548-b-8-a Acquired: 12/13/2011 16:50:51 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99301 6010B Q4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**.00250**	**.01791**	**.10241**	**.12059**	**.00000**	**.00476**	**160.59**	**.00022**	**.00072**
Stddev	.00025	.00012	.00098	.00116	.00007	.00005	.00341	.17	.00017	.00006
%RSD	20.297	4.8681	5.4824	1.1349	.05512	1087.7	71.742	.10645	78.015	8.6247
#1	-.00141	.00258	.01860	.10159	.12054	-.00003	.00717	160.71	.00034	.00076
#2	-.00106	.00241	.01721	.10324	.12063	.00004	.00234	160.47	.00010	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00043**	**8.7674**	**.31558**	**.00327**	**85.460**	**6.5233**	**.00056**	**16.291**	**.00060**
Stddev	.00006	.00003	.0063	.02231	.00181	.032	.0109	.00014	.011	.00011
%RSD	10.512	6.3099	.07246	7.0686	55.316	.03752	.16736	25.548	.06612	18.046
#1	.00058	.00041	8.7719	.33135	.00199	85.437	6.5156	.00046	16.284	.00052
#2	.00050	.00045	8.7629	.29980	.00455	85.482	6.5310	.00067	16.299	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11798**	**.00064**	**43.060**	**-.00336**	**-.00041**	**13.776**	**29.480**	**-.00092**	**.19463**	**-.00159**
Stddev	.00137	.00256	.297	.00202	.00027	.045	.095	.00016	.00030	.00053
%RSD	1.1589	400.12	.68927	60.258	65.974	.32379	.32379	17.421	.15298	33.679
#1	.11701	-.00117	42.851	-.00479	-.00022	13.807	29.547	-.00103	.19442	-.00196
#2	.11894	.00245	43.270	-.00193	-.00060	13.744	29.412	-.00080	.19484	-.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00142**	**.00370**	**-.01843**	**.00019**	**.00394**	**.00222**
Stddev	.00013	.00086	.00824	.00023	.00057	.00010
%RSD	9.2606	23.265	44.694	122.02	14.384	4.3713
#1	.00151	.00431	-.01260	.00035	.00354	.00215
#2	.00132	.00309	-.02425	.00003	.00435	.00229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3898.5**	**46786.**	**5688.8**
Stddev	14.9	4.	4.8
%RSD	.38236	.00800	.08524
#1	3909.1	46788.	5685.4
#2	3888.0	46783.	5692.2

Sample Name: CCVH-1169743 Acquired: 12/13/2011 16:53:20 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**49.495**	**-.00192**	**.00243**	**.00023**	**-.00015**	**.99103**	**.00877**	**-.00073**	**.00088**	**.00042**	**-.00089**	**49.595**
Stddev	.00004	.119	.00026	.00091	.00003	.00007	.00441	.00023	.00003	.00017	.00003	.00029	.114
%RSD	9.5690	.24075	13.571	37.420	15.046	44.262	.44543	2.6549	3.9511	18.989	7.9059	32.823	.22968
#1	-.00036	49.410	-.00173	.00307	.00021	-.00020	.99415	.00894	-.00075	.00076	.00040	-.00110	49.514
#2	-.00041	49.579	-.00210	.00179	.00026	-.00010	.98791	.00861	-.00071	.00100	.00045	-.00069	49.675
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08767**	**.00194**	**.00013**	**-.00123**	**-.00177**	**243.79**	**.00090**	**.00167**	**-.00107**	**4.8563**	**-.00181**	**.00327**	**.01892**
Stddev	.01893	.00008	.00119	.00001	.00019	.04	.00005	.00204	.00020	.0056	.00072	.00056	.00361
%RSD	21.592	4.0663	917.18	.59464	10.781	.01828	5.0589	122.13	18.582	.11466	39.954	17.199	19.109
#1	.07428	.00199	.00097	-.00123	-.00190	243.82	.00094	.00311	-.00121	4.8602	-.00130	.00367	.02147
#2	.10105	.00188	-.00071	-.00122	-.00163	243.76	.00087	.00023	-.00093	4.8523	-.00232	.00287	.01636
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04048**	**.00188**	**.00044**	**4.8330**	**.00086**	**-.00362**	**10.115**	**-.00059**	**.00133**	**-.01220**
Stddev	.00774	.00008	.00003	.0097	.00001	.00073	.008	.00044	.00021	.00003
%RSD	19.109	4.3697	6.0173	.20125	1.7131	20.258	.08082	73.297	15.628	.22227
#1	.04595	.00182	.00042	4.8261	.00085	-.00310	10.109	-.00090	.00119	-.01222
#2	.03501	.00194	.00045	4.8399	.00087	-.00414	10.121	-.00029	.00148	-.01218
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3967.8**	**46955.**	**5623.7**
Stddev	33.2	227.	27.4
%RSD	.83758	.48394	.48768
#1	3944.3	47116.	5643.1
#2	3991.3	46795.	5604.3

Sample Name: CCV-1169927 Acquired: 12/13/2011 16:55:41 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48853**	**.50911**	**.99589**	**.49698**	**.48301**	**.49613**	**.00197**	**4.9217**	**.49847**	**.50435**	**.50504**	**.49794**	**2.4148**
Stddev	.00200	.00348	.00514	.00021	.00042	.00046	.00134	.0074	.00001	.00085	.00095	.00070	.0022
%RSD	.41010	.68281	.51657	.04207	.08610	.09342	68.146	.15009	.00106	.16819	.18743	.13962	.08885
#1	.48995	.50665	.99226	.49683	.48272	.49581	.00102	4.9269	.49847	.50375	.50437	.49745	2.4133
#2	.48712	.51157	.99953	.49713	.48331	.49646	.00291	4.9165	.49848	.50495	.50571	.49843	2.4163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.882**	**.99024**	**19.431**	**.49003**	**.50267**	**5.0281**	**.50286**	**.99073**	**.99205**	**.00394**	**.99141**	**.98285**	**4.8986**
Stddev	.021	.00085	.035	.00128	.00033	.0105	.00031	.00122	.00037	.00425	.00145	.00262	.0053
%RSD	.04257	.08611	.18212	.26110	.06591	.20950	.06088	.12332	.03687	107.75	.14602	.26638	.10799
#1	48.896	.98964	19.456	.49094	.50244	5.0356	.50308	.98986	.99231	.00094	.99244	.98100	4.8949
#2	48.867	.99085	19.406	.48913	.50291	5.0207	.50265	.99159	.99179	.00694	.99039	.98470	4.9024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.483**	**1.0037**	**.49680**	**-.00092**	**.49931**	**1.0056**	**-.01312**	**.49131**	**.48841**	**.48575**
Stddev	.011	.0028	.00008	.00120	.00103	.0035	.03465	.00317	.00331	.00434
%RSD	.10799	.27903	.01513	130.82	.20719	.34989	263.98	.64578	.67732	.89423
#1	10.475	1.0017	.49685	-.00007	.49858	1.0081	-.03762	.49356	.49075	.48268
#2	10.491	1.0057	.49674	-.00177	.50005	1.0031	.01137	.48907	.48607	.48883
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4041.4**	**48686.**	**5685.2**
Stddev	8.6	110.	6.4
%RSD	.21293	.22693	.11338
#1	4047.4	48608.	5689.8
#2	4035.3	48764.	5680.7

Sample Name: CCB Acquired: 12/13/2011 16:57:53 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00045**	**.00037**	**.00137**	**-.00003**	**.00002**	**.00135**	**.00153**	**.00013**	**.00013**	**-.00005**	**.00020**
Stddev	.00020	.00156	.00096	.00046	.00004	.00008	.00097	.00030	.00015	.00012	.00001	.00004
%RSD	61.450	348.45	257.64	33.511	135.99	425.69	72.251	19.674	115.93	86.904	12.216	21.873
#1	-.00046	.00155	.00105	.00169	-.00005	-.00004	.00066	.00132	.00002	.00022	-.00004	.00023
#2	-.00018	-.00066	-.00030	.00104	.00000	.00007	.00203	.00175	.00023	.00005	-.00005	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.07664**	**.00112**	**.00159**	**.00011**	**.00033**	W **.14009**	**.00013**	**-.00044**	**.00005**	**.01420**	**.00184**
Stddev	.00124	.01164	.00129	.00174	.00004	.00011	.01016	.00025	.00004	.00133	.00260	.00041
%RSD	2104.4	15.184	114.40	109.30	34.086	32.624	7.2546	199.39	9.6163	2472.8	18.339	22.200
#1	.00082	.08487	.00203	.00283	.00008	.00040	.14728	-.00005	-.00041	.00099	.01604	.00155
#2	-.00093	.06841	.00021	.00036	.00013	.00025	.13290	.00031	-.00047	-.00088	.01235	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							.09160					
Low Limit							-.09160					

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**-.00453**	**-.00970**	**-.00110**	**.00008**	**.00055**	**.00014**	**.00118**	**-.01648**	**.00028**	**.00108**	**.00134**
Stddev	.00157	.01574	.03368	.00034	.00001	.00007	.00023	.00032	.00308	.00003	.00022	.00174
%RSD	180.69	347.26	347.26	30.971	13.656	12.247	167.16	26.741	18.662	11.087	20.258	129.75
#1	-.00197	-.01566	-.03351	-.00134	.00009	.00059	-.00003	.00140	-.01865	.00031	.00123	.00257
#2	.00024	.00660	.01412	-.00086	.00007	.00050	.00031	.00096	-.01430	.00026	.00092	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4072.5**	**49619.**	**5618.2**
Stddev	13.4	145.	32.3
%RSD	.32980	.29322	.57537
#1	4082.0	49722.	5641.1
#2	4063.0	49516.	5595.4

Sample Name: CCVL1171013 Acquired: 12/13/2011 17:00:19 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01003**	**.10472**	**.01228**	**.10573**	**.00956**	**.00103**	**.11415**	**.20009**	**.00509**	**.01067**	**.01043**	**.01566**	**.09757**
Stddev	.00014	.00015	.00128	.00020	.00003	.00002	.00334	.00454	.00002	.00006	.00012	.00028	.00027
%RSD	1.4411	.14784	10.460	.19230	.34316	1.6710	2.9279	2.2705	.43818	.60101	1.1109	1.7705	.27982
#1	.01013	.10483	.01137	.10587	.00953	.00104	.11651	.20331	.00508	.01063	.01035	.01586	.09776
#2	.00993	.10461	.01319	.10559	.00958	.00101	.11179	.19688	.00511	.01072	.01052	.01547	.09737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1139**	**.01218**	**.20431**	**.01031**	**.02030**	**1.1533**	**.04122**	**3.1053**	**.00838**	**.01396**	**.00858**	**.01155**	**.50934**
Stddev	.0078	.00144	.00066	.00000	.00010	.0043	.00005	.0044	.00055	.00676	.00012	.00307	.00816
%RSD	.25147	11.798	.32385	.01610	.49921	.37376	.12584	.14189	6.5123	48.452	1.3774	26.612	1.6012
#1	3.1195	.01116	.20384	.01031	.02023	1.1563	.04118	3.1084	.00877	.00918	.00849	.01373	.50357
#2	3.1084	.01319	.20477	.01031	.02037	1.1502	.04126	3.1022	.00799	.01874	.00866	.00938	.51511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0900**	**.10481**	**.01013**	**.01548**	**.01041**	**.01715**	F **.04021**	**.00979**	**.02140**	**.01708**
Stddev	.0175	.00061	.00006	.00037	.00029	.00083	.01189	.00017	.00027	.00077
%RSD	1.6012	.58460	.57505	2.3806	2.8078	4.8536	29.579	1.7047	1.2700	4.5190
#1	1.0776	.10438	.01009	.01522	.01061	.01656	.04862	.00991	.02160	.01653
#2	1.1023	.10525	.01017	.01574	.01020	.01774	.03180	.00967	.02121	.01763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value							.06000			
Range							-30.000%			

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4200.9**	**50800.**	**5766.4**
Stddev	9.0	112.	18.7
%RSD	.21336	.21953	.32423
#1	4207.2	50721.	5779.6
#2	4194.5	50879.	5753.1

Sample Name: mb 280-99499/1-a Acquired: 12/13/2011 17:02:43 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99499 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**-.00170**	**-.00191**	**-.00020**	**.00091**	**.00003**	**.00385**	**.00391**	**.00008**	**.00021**
Stddev	.00008	.00011	.00035	.00017	.00005	.00001	.00351	.00030	.00009	.00002
%RSD	16.988	6.7627	18.399	84.092	5.1803	43.561	91.168	7.7579	112.74	10.974
#1	-.00055	-.00161	-.00166	-.00008	.00094	.00002	.00633	.00369	.00002	.00023
#2	-.00043	-.00178	-.00215	-.00031	.00087	.00004	.00137	.00412	.00014	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.00007**	**.00708**	**.08681**	**.00166**	**-.00068**	**.00016**	**-.00005**	**.11572**	**-.00003**
Stddev	.00016	.00054	.00288	.00396	.00099	.00043	.00001	.00012	.00391	.00011
%RSD	51.772	796.69	40.733	4.5644	59.728	64.181	6.6648	218.72	3.3772	339.06
#1	.00042	.00031	.00504	.08962	.00237	-.00099	.00015	-.00014	.11295	-.00011
#2	.00019	-.00045	.00911	.08401	.00096	-.00037	.00017	.00003	.11848	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00022**	F **.01279**	**-.00180**	**.00227**	W **-.00791**	W **-.01694**	**-.00063**	**.00013**	**-.00044**
Stddev	.00122	.00092	.00104	.00009	.00343	.00894	.01914	.00102	.00002	.00035
%RSD	153.23	417.22	8.1515	4.8071	151.15	113.00	113.00	160.75	17.347	81.262
#1	.00166	-.00043	.01353	-.00186	.00470	-.01424	-.03047	-.00136	.00011	-.00069
#2	-.00007	.00087	.01205	-.00174	-.00016	-.00159	-.00340	.00009	.00015	-.00019
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			.01000			.00500	.00500			
Low Limit			-.01000			-.00500	-.00500			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00138**	**-.00188**	**-.00010**	**.00255**	**.00158**
Stddev	.00012	.00079	.01123	.00001	.00006	.00100
%RSD	39.478	56.982	598.63	7.2145	2.2526	63.201
#1	.00023	.00194	.00607	-.00009	.00251	.00229
#2	.00040	.00083	-.00982	-.00010	.00259	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4188.7**	**50557.**	**5777.8**
Stddev	9.0	4.	60.4
%RSD	.21483	.00863	1.0458
#1	4195.1	50554.	5820.5
#2	4182.3	50560.	5735.1

Sample Name: lcs 280-99499/2-a Acquired: 12/13/2011 17:05:08 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99499 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05092**	**1.9707**	**1.0275**	**1.0355**	**1.9723**	**.05043**	**2.1144**	**48.626**	**.10112**	**.49176**
Stddev	.00029	.0072	.0002	.0001	.0946	.00229	.0031	2.163	.00038	.00013
%RSD	.57342	.36368	.01865	.00754	4.7991	4.5383	.14735	4.4491	.37176	.02546
#1	.05112	1.9656	1.0274	1.0354	1.9054	.04881	2.1166	47.097	.10138	.49167
#2	.05071	1.9757	1.0277	1.0356	2.0393	.05205	2.1122	50.156	.10085	.49185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19911**	**.24999**	**.98155**	**49.782**	**1.0027**	**48.954**	**.49080**	**.98948**	**52.194**	**.49660**
Stddev	.00075	.00037	.04144	2.143	.0392	.113	.00143	.00022	2.255	.00004
%RSD	.37702	.14810	4.2221	4.3047	3.9055	.23004	.29083	.02264	4.3204	.00802
#1	.19964	.25025	.95225	48.266	.97496	49.034	.49181	.98963	50.600	.49658
#2	.19857	.24973	1.0109	51.297	1.0303	48.874	.48979	.98932	53.789	.49663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.341**	**.49728**	**.00794**	**.50354**	**2.0466**	**9.9003**	F **21.187**	**1.9850**	**1.0126**	**1.0093**
Stddev	.000	.00378	.00027	.00077	.0119	.4328	.926	.0001	.0459	.0024
%RSD	.00273	.75915	3.4277	.15341	.58001	4.3712	4.3712	.00744	4.5301	.23370
#1	10.341	.49995	.00775	.50299	2.0550	9.5943	20.532	1.9851	.98015	1.0110
#2	10.342	.49461	.00813	.50408	2.0382	10.206	21.842	1.9849	1.0450	1.0076
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							24.610			
Low Limit							20.100			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99992**	**2.0105**	**2.1529**	**.49015**	**.48438**	**.50063**
Stddev	.00103	.0046	.0062	.00069	.00090	.02641
%RSD	.10255	.23050	.28672	.14043	.18583	5.2763
#1	1.0006	2.0138	2.1573	.49064	.48502	.48195
#2	.99919	2.0073	2.1486	.48966	.48375	.51930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3976.6**	**47537.**	**5691.7**
Stddev	15.7	116.	194.0
%RSD	.39363	.24492	3.4078
#1	3987.6	47455.	5828.9
#2	3965.5	47619.	5554.6

Sample Name: lcsd 280-99499/3-a Acquired: 12/13/2011 17:07:17 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99499 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05173**	**1.9828**	**1.0394**	**1.0528**	**1.9690**	**.05036**	**2.1517**	**48.487**	**.10253**	**.49868**
Stddev	.00016	.0049	.0073	.0048	.0077	.00008	.0035	.058	.00016	.00210
%RSD	.31867	.24504	.70754	.46010	.39049	.14907	.16352	.11931	.15915	.42072
#1	.05162	1.9793	1.0342	1.0494	1.9745	.05041	2.1492	48.528	.10242	.49720
#2	.05185	1.9862	1.0446	1.0562	1.9636	.05030	2.1542	48.446	.10265	.50016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20224**	**.25381**	**.97338**	**49.741**	**1.0042**	**49.731**	**.49591**	**1.0063**	**52.353**	**.50448**
Stddev	.00035	.00058	.00304	.080	.0022	.141	.00075	.0024	.008	.00031
%RSD	.17073	.23009	.31181	.16166	.21524	.28430	.15193	.23713	.01551	.06076
#1	.20248	.25340	.97124	49.798	1.0027	49.831	.49644	1.0046	52.348	.50427
#2	.20200	.25422	.97553	49.684	1.0057	49.631	.49538	1.0080	52.359	.50470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.493**	**.50530**	**-.00122**	**.51052**	**2.0747**	**9.8884**	F **21.161**	**2.0134**	**1.0106**	**1.0216**
Stddev	.027	.00049	.00442	.00127	.0089	.0052	.011	.0004	.0003	.0050
%RSD	.25780	.09730	361.40	.24959	.42728	.05250	.05250	.01766	.03265	.48987
#1	10.473	.50496	-.00435	.50962	2.0684	9.8847	21.153	2.0136	1.0104	1.0180
#2	10.512	.50565	.00190	.51142	2.0810	9.8920	21.169	2.0131	1.0109	1.0251
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							24.610			
Low Limit							20.100			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0185**	**2.0390**	**2.1750**	**.49797**	**.49192**	**.49650**
Stddev	.0008	.0029	.0343	.00081	.00084	.00185
%RSD	.07433	.14384	1.5772	.16247	.17059	.37310
#1	1.0190	2.0369	2.1993	.49740	.49252	.49519
#2	1.0179	2.0411	2.1507	.49855	.49133	.49781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3984.2**	**47729.**	**5732.2**
Stddev	16.3	38.	13.5
%RSD	.41021	.07860	.23614
#1	3995.7	47756.	5722.6
#2	3972.6	47703.	5741.8

Sample Name: 280-23650-a-4-a Acquired: 12/13/2011 17:09:25 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99499 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00317**	**-.00333**	**.00332**	**.14935**	**.03799**	**.00003**	**.00702**	**119.13**	**.00034**	**.00004**
Stddev	.00032	.00160	.00148	.00047	.00058	.00001	.00103	.52	.00009	.00007
%RSD	10.101	47.934	44.462	.31487	1.5352	52.658	14.668	.44065	25.554	210.44
#1	-.00295	-.00446	.00227	.14968	.03840	.00004	.00629	119.50	.00028	-.00002
#2	-.00340	-.00220	.00436	.14902	.03758	.00002	.00775	118.76	.00040	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14329**	**.00164**	**.01039**	**6.6716**	**.00778**	**32.033**	F **37.684**	**-.00021**	**32.837**	**.00149**
Stddev	.00016	.00049	.00084	.0301	.00183	.205	.856	.00047	.063	.00004
%RSD	.11484	29.941	8.0797	.45173	23.559	.64007	2.2717	219.73	.19043	2.8671
#1	.14317	.00199	.00980	6.6929	.00648	32.178	38.290	-.00054	32.881	.00146
#2	.14340	.00130	.01099	6.6503	.00907	31.888	37.079	.00012	32.793	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							20.000			
Low Limit							-.02000			

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15375**	**.00372**	**27.236**	**-.00613**	**.00946**	**19.049**	**40.765**	**.00039**	**.49791**	**-.00275**
Stddev	.00034	.00129	.104	.00068	.00105	.064	.137	.00007	.00180	.00148
%RSD	.22349	34.747	.38187	11.080	11.146	.33492	.33492	17.365	.36174	53.618
#1	.15400	.00281	27.162	-.00565	.00871	19.094	40.862	.00034	.49918	-.00380
#2	.15351	.00463	27.309	-.00661	.01020	19.004	40.669	.00044	.49663	-.00171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00156**	**.01897**	W **-.08122**	F **-.02000**	**.07945**	**.00091**
Stddev	.00003	.00096	.01009	.00025	.00157	.00117
%RSD	2.2033	5.0525	12.424	1.2642	1.9762	128.28
#1	.00159	.01829	-.07409	-.02018	.08056	.00174
#2	.00154	.01965	-.08836	-.01982	.07834	.00008
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Fail	Chk Pass	Chk Pass
High Limit			45.000	50.000		
Low Limit			-.05000	-.02000		

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4012.3**	**48151.**	**5822.0**
Stddev	3.7	334.	10.2
%RSD	.09331	.69323	.17594
#1	4015.0	47915.	5814.8
#2	4009.7	48387.	5829.2

Sample Name: 280-23650-a-5-a Acquired: 12/13/2011 17:11:52 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99499 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00288**	**-.00375**	**.00013**	**.08917**	**.01299**	**-.00001**	**.00453**	**81.660**	**.00027**	**.00017**
Stddev	.00008	.00196	.00011	.00012	.00010	.00003	.00084	.038	.00001	.00014
%RSD	2.7343	52.328	90.255	.13658	.75363	534.94	18.579	.04696	3.0623	80.230
#1	-.00293	-.00514	.00005	.08909	.01292	-.00003	.00513	81.687	.00026	.00007
#2	-.00282	-.00236	.00021	.08926	.01306	.00002	.00394	81.633	.00027	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12573**	**.00048**	**.00331**	**2.9197**	**.00669**	**22.637**	F **26.587**	**-.00100**	**17.650**	**.00038**
Stddev	.00030	.00015	.00067	.0038	.00063	.011	.272	.00003	.250	.00036
%RSD	.23629	31.779	20.339	.13097	9.4478	.04903	1.0242	3.5120	1.4137	93.229
#1	.12552	.00059	.00378	2.9170	.00625	22.644	26.394	-.00097	17.826	.00013
#2	.12594	.00037	.00283	2.9224	.00714	22.629	26.780	-.00102	17.474	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							20.000			
Low Limit							-.02000			

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03940**	**.00177**	**7.0960**	**-.00659**	**.00964**	**21.144**	**45.248**	**-.00152**	**.40452**	**-.00281**
Stddev	.00146	.00017	.0250	.00066	.00377	.026	.055	.00000	.00002	.00045
%RSD	3.6937	9.5757	.35205	9.9942	39.095	.12180	.12180	.19459	.00526	16.147
#1	.03837	.00189	7.1136	-.00706	.01231	21.162	45.287	-.00152	.40450	-.00249
#2	.04043	.00165	7.0783	-.00613	.00698	21.126	45.210	-.00152	.40453	-.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**.01132**	W **-.05048**	**-.00760**	**.04203**	**.00193**
Stddev	.00021	.00017	.00719	.00016	.00042	.00015
%RSD	19.929	1.4710	14.246	2.0582	.99600	7.8425
#1	.00123	.01144	-.04539	-.00749	.04232	.00204
#2	.00092	.01120	-.05556	-.00771	.04173	.00182
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			45.000			
Low Limit			-.05000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4052.3**	**48923.**	**5891.6**
Stddev	12.2	227.	10.1
%RSD	.30192	.46366	.17069
#1	4060.9	49084.	5884.5
#2	4043.6	48763.	5898.7

Sample Name: 280-23650-a-12-a Acquired: 12/13/2011 17:14:20 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99499 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.01055**	**.00101**	**.04045**	**.00935**	**.00004**	**.00389**	**58.304**	**.00008**	**.00005**
Stddev	.00018	.00452	.00426	.00286	.00018	.00002	.00031	.077	.00004	.00009
%RSD	66.531	42.836	423.15	7.0601	1.9233	48.304	7.8927	.13163	56.110	197.38
#1	-.00014	.00736	-.00200	.03843	.00922	.00005	.00410	58.358	.00005	-.00002
#2	-.00039	.01375	.00402	.04247	.00948	.00002	.00367	58.249	.00010	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03993**	**.00038**	**.13018**	**2.6745**	**.00504**	**14.762**	**1.7324**	**.00020**	**16.738**	**.00083**
Stddev	.00225	.00001	.00086	.0205	.00044	.026	.0057	.00031	.303	.00018
%RSD	5.6258	3.4127	.65831	.76844	8.6814	.17752	.32674	158.05	1.8095	21.719
#1	.03835	.00039	.12957	2.6890	.00535	14.743	1.7284	-.00002	16.523	.00070
#2	.04152	.00037	.13078	2.6599	.00473	14.780	1.7364	.00042	16.952	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04787**	**-.00002**	**6.9364**	**-.00269**	**.00024**	**18.026**	**38.576**	**-.00087**	**.28099**	**-.00004**
Stddev	.00245	.00021	.4007	.00053	.00269	.053	.114	.00074	.00094	.00148
%RSD	5.1142	1102.2	5.7766	19.590	1116.3	.29663	.29663	85.301	.33526	3995.6
#1	.04613	.00013	6.6531	-.00232	.00215	18.064	38.657	-.00139	.28032	-.00108
#2	.04960	-.00017	7.2198	-.00306	-.00166	17.988	38.495	-.00034	.28166	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00230**	**-.01394**	**.00583**	**.06612**	**.00152**
Stddev	.00018	.00015	.01412	.00016	.00060	.00004
%RSD	17.985	6.5402	101.31	2.7970	.90581	2.6278
#1	.00114	.00241	-.00395	.00571	.06570	.00149
#2	.00088	.00220	-.02392	.00594	.06654	.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3990.7**	**49694.**	**5905.8**
Stddev	191.1	236.	13.1
%RSD	4.7891	.47396	.22185
#1	4125.9	49861.	5915.1
#2	3855.6	49528.	5896.6

Sample Name: CCVH-1169743 Acquired: 12/13/2011 17:16:43 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**49.775**	**-.00047**	**.00179**	**.00022**	**-.00010**	**1.0092**	**.00417**	**-.00081**	**.00096**	**.00036**	**-.00102**	**49.861**
Stddev	.00008	.052	.00120	.00024	.00013	.00005	.0023	.00271	.00020	.00026	.00019	.00031	.186
%RSD	8.0571	.10482	254.32	13.390	60.521	49.339	.22356	65.052	25.117	26.810	52.145	30.663	.37326
#1	-.00099	49.738	-.00132	.00162	.00012	-.00007	1.0108	.00225	-.00096	.00077	.00049	-.00124	49.730
#2	-.00111	49.812	.00038	.00196	.00031	-.00014	1.0076	.00608	-.00067	.00114	.00023	-.00080	49.993
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08590**	**.00156**	**.00006**	**-.00091**	**-.00201**	**244.75**	**.00078**	**.00020**	**-.00181**	**4.9801**	**-.00228**	**.00441**	**.02577**
Stddev	.02303	.00009	.00299	.00008	.00021	.92	.00008	.00097	.00062	.0211	.00065	.00320	.00309
%RSD	26.807	5.5808	4913.0	8.5123	10.635	.37762	9.8474	496.16	34.585	.42279	28.601	72.500	11.988
#1	.06962	.00150	.00218	-.00085	-.00216	244.09	.00073	.00088	-.00225	4.9652	-.00274	.00667	.02358
#2	.10218	.00162	-.00205	-.00096	-.00186	245.40	.00084	-.00049	-.00136	4.9950	-.00182	.00215	.02795
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05514**	**.00196**	**.00048**	**4.8911**	**.00149**	**-.00539**	**10.205**	**-.00027**	**.00183**	**-.01321**
Stddev	.00661	.00129	.00002	.0063	.00010	.00013	.023	.00032	.00000	.00165
%RSD	11.988	65.714	5.1795	.12873	6.8904	2.4376	.22911	119.48	.03040	12.517
#1	.05046	.00105	.00050	4.8867	.00156	-.00530	10.189	-.00004	.00183	-.01437
#2	.05981	.00287	.00046	4.8956	.00142	-.00548	10.222	-.00050	.00183	-.01204
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3922.5**	**46942.**	**5650.0**
Stddev	7.6	108.	29.0
%RSD	.19470	.23075	.51393
#1	3927.9	46866.	5670.5
#2	3917.1	47019.	5629.5

Sample Name: CCV-1169927 Acquired: 12/13/2011 17:19:03 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48514**	**.51671**	**1.0061**	**.50110**	**.49088**	**.50245**	**.00011**	**4.9945**	**.50022**	**.50615**	**.50586**	**.49594**	**2.4591**
Stddev	.00732	.00476	.0043	.00242	.00074	.00071	.00036	.0025	.00138	.00242	.00159	.00807	.0039
%RSD	1.5096	.92031	.42582	.48309	.14973	.14078	330.86	.04923	.27539	.47881	.31400	1.6276	.15943
#1	.47996	.51335	1.0030	.49939	.49036	.50194	-.00015	4.9928	.49925	.50443	.50474	.49023	2.4563
#2	.49032	.52007	1.0091	.50281	.49140	.50295	.00036	4.9962	.50120	.50786	.50698	.50164	2.4619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.461**	**1.0036**	**19.351**	**.48943**	**.50385**	**5.0454**	**.50548**	**.99690**	**1.0061**	**-.00560**	**.99798**	**1.0018**	**4.9439**
Stddev	.045	.0005	.224	.00689	.00078	.0065	.00088	.00118	.0034	.00089	.00494	.0031	.0658
%RSD	.09134	.05318	1.1591	1.4078	.15498	.12790	.17424	.11876	.33821	15.817	.49530	.31100	1.3315
#1	49.429	1.0032	19.193	.48456	.50330	5.0408	.50486	.99607	1.0037	-.00497	.99449	1.0040	4.8974
#2	49.493	1.0040	19.510	.49430	.50440	5.0499	.50610	.99774	1.0085	-.00623	1.0015	.99959	4.9905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.580**	**1.0079**	**.50267**	**-.00048**	**.49615**	**1.0133**	**-.00415**	**.48859**	**.48818**	**.49458**
Stddev	.141	.0054	.00002	.00057	.00566	.0023	.02201	.00518	.00121	.00161
%RSD	1.3315	.53349	.00372	117.92	1.1415	.22736	530.34	1.0600	.24708	.32478
#1	10.480	1.0041	.50268	-.00008	.49215	1.0117	-.01971	.48493	.48733	.49572
#2	10.680	1.0117	.50265	-.00088	.50016	1.0150	.01141	.49225	.48903	.49345
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4026.4**	**48873.**	**5621.1**
Stddev	8.4	357.	.2
%RSD	.20905	.73147	.00341
#1	4032.3	49126.	5621.2
#2	4020.4	48620.	5621.0

Sample Name: CCB Acquired: 12/13/2011 17:21:14 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00014**	**-.00211**	**.00058**	**-.00010**	**.00004**	**.00024**	**.00154**	**.00019**	**.00009**	**.00007**	**.00002**
Stddev	.00010	.00154	.00246	.00010	.00004	.00003	.00092	.00112	.00014	.00006	.00005	.00010
%RSD	29.749	1060.5	116.75	16.993	43.405	69.494	384.31	72.505	71.311	62.223	81.403	595.22
#1	-.00026	.00123	-.00037	.00065	-.00007	.00002	-.00041	.00075	.00009	.00013	.00011	-.00006
#2	-.00040	-.00094	-.00385	.00051	-.00013	.00005	.00089	.00233	.00029	.00005	.00003	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.05247**	**.00211**	**.00092**	W **.00027**	**.00061**	**.08010**	**.00000**	**-.00079**	**.00030**	**.00978**	**.00058**
Stddev	.00013	.00756	.00152	.00378	.00001	.00034	.00039	.0000	.00019	.00067	.00460	.00103
%RSD	20.457	14.409	72.283	411.45	3.4652	55.924	.48081	7352.2	23.695	223.10	47.068	177.07
#1	.00054	.04713	.00103	.00359	.00027	.00037	.07983	.00003	-.00092	.00077	.01304	.00131
#2	.00072	.05782	.00318	-.00176	.00028	.00084	.08037	-.00003	-.00066	-.00017	.00653	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.00025							
Low Limit					-.00025							

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00186**	**.00339**	**.00725**	**-.00014**	**.00002**	**.00088**	**.00023**	**-.00007**	**.00578**	**-.00008**	**.00149**	**.00162**
Stddev	.00425	.00297	.00635	.00042	.00007	.00169	.00016	.00032	.00327	.00027	.00003	.00071
%RSD	228.04	87.601	87.601	308.96	302.35	191.30	70.483	480.23	56.489	329.51	1.7356	43.660
#1	.00487	.00549	.01175	.00016	-.00003	.00207	.00034	-.00029	.00347	.00011	.00147	.00112
#2	-.00114	.00129	.00276	-.00043	.00007	-.00031	.00011	.00016	.00809	-.00028	.00151	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4066.7**	**49013.**	**5603.3**
Stddev	20.2	59.	17.9
%RSD	.49641	.11983	.31867
#1	4052.4	49054.	5616.0
#2	4080.9	48971.	5590.7

Sample Name: CCVL1171013 Acquired: 12/13/2011 17:23:40 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00955**	**.10636**	**.01770**	**.10598**	**.00954**	**.00097**	**.11483**	**.20053**	**.00504**	**.01081**	**.01036**	**.01562**	**.09848**	**3.0743**
Stddev	.00078	.00072	.00024	.00115	.00018	.00002	.00127	.00163	.00008	.00004	.00000	.00019	.00035	.0367
%RSD	8.1823	.67594	1.3576	1.0887	1.8352	2.5553	1.1023	.81247	1.6331	.38284	.01164	1.2383	.35689	1.1922
#1	.00900	.10687	.01753	.10516	.00942	.00098	.11393	.20168	.00498	.01084	.01036	.01576	.09873	3.0484
#2	.01011	.10586	.01787	.10679	.00966	.00095	.11572	.19938	.00509	.01078	.01036	.01548	.09823	3.1002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01142**	**.20596**	**.01053**	**.02037**	**1.1041**	**.04144**	**3.1308**	**.00960**	**.00615**	**.00810**	**.01506**	**.50735**	**1.0857**	**.10413**
Stddev	.00077	.00232	.00008	.00007	.0062	.00009	.0184	.00103	.00006	.00206	.00250	.00844	.0181	.00208
%RSD	6.7663	1.1245	.75214	.33744	.56075	.20846	.58809	10.737	.95881	25.474	16.582	1.6628	1.6628	1.9931
#1	.01087	.20760	.01058	.02042	1.1085	.04137	3.1178	.01033	.00620	.00956	.01330	.50139	1.0730	.10266
#2	.01196	.20433	.01047	.02033	1.0998	.04150	3.1439	.00887	.00611	.00664	.01683	.51332	1.0985	.10560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01016**	**.01586**	**.01057**	**.01850**	**.06072**	**.00933**	**.02162**	**.01684**
Stddev	.00003	.00059	.00015	.00132	.02453	.00003	.00032	.00018
%RSD	.27227	3.7403	1.3736	7.1548	40.399	.34856	1.4804	1.0689
#1	.01014	.01544	.01068	.01756	.07806	.00931	.02140	.01696
#2	.01018	.01627	.01047	.01944	.04337	.00936	.02185	.01671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4160.5**	**50805.**	**5793.1**
Stddev	30.2	241.	57.7
%RSD	.72560	.47482	.99564
#1	4181.9	50975.	5833.9
#2	4139.2	50634.	5752.3

Sample Name: 280-23650-a-3-a Acquired: 12/13/2011 17:26:03 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99499 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00771**	**-.00035**	**.03785**	**.00929**	**.00004**	**.00409**	**58.931**	**.00009**	**.00019**
Stddev	.00013	.00074	.00314	.00050	.00011	.00001	.00450	1.210	.00007	.00004
%RSD	6692.9	9.5792	903.06	1.3251	1.2225	18.103	109.90	2.0532	76.796	19.080
#1	.00009	.00719	.00187	.03820	.00921	.00004	.00091	58.076	.00004	.00022
#2	-.00009	.00823	-.00257	.03750	.00938	.00005	.00727	59.787	.00013	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03909**	**.00057**	**.32076**	**2.6846**	**.00408**	**14.997**	**1.9198**	**-.00017**	**16.661**	**.00053**
Stddev	.00004	.00001	.00961	.1250	.00188	.026	.0039	.00011	.373	.00020
%RSD	.11233	1.5076	2.9976	4.6562	46.154	.17223	.20219	64.706	2.2401	36.901
#1	.03912	.00056	.31396	2.5962	.00275	15.015	1.9225	-.00024	16.397	.00039
#2	.03906	.00058	.32755	2.7730	.00541	14.979	1.9170	-.00009	16.925	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04559**	**-.00057**	**6.6657**	**-.00417**	**.00168**	**18.341**	**39.249**	**-.00161**	**.28159**	**-.00089**
Stddev	.00052	.00056	.0894	.00005	.00254	.443	.948	.00051	.00734	.00139
%RSD	1.1411	98.530	1.3411	1.1146	151.60	2.4143	2.4143	31.661	2.6078	156.35
#1	.04522	-.00017	6.7289	-.00414	.00347	18.028	38.579	-.00125	.27640	-.00187
#2	.04596	-.00097	6.6025	-.00421	-.00012	18.654	39.919	-.00197	.28679	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00340**	**-.02116**	**.00644**	**.06842**	**.00158**
Stddev	.00013	.00047	.01843	.00033	.00009	.00040
%RSD	15.991	13.704	87.100	5.1389	.13102	25.592
#1	.00090	.00307	-.00813	.00620	.06836	.00186
#2	.00071	.00373	-.03419	.00667	.06849	.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4098.0**	**49042.**	**5779.3**
Stddev	10.7	155.	129.1
%RSD	.26008	.31542	2.2334
#1	4090.4	49152.	5870.6
#2	4105.5	48933.	5688.0

Sample Name: 280-23650-a-3-aSD@5 Acquired: 12/13/2011 17:28:25 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99499 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.01694**	**.00012**	**.00762**	**.00190**	**.00004**	**-.00065**	**11.934**	**.00013**	**.00011**
Stddev	.00009	.00055	.00122	.00054	.00004	.00003	.00007	.006	.00003	.00003
%RSD	22.367	3.2559	1056.0	7.0615	2.1848	63.842	10.637	.05446	24.865	24.413
#1	-.00032	.01733	.00098	.00800	.00187	.00002	-.00070	11.929	.00015	.00013
#2	-.00044	.01655	-.00075	.00724	.00193	.00006	-.00060	11.939	.00011	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00820**	**.00029**	**.07149**	**.58421**	**.00085**	**3.0544**	**.39443**	**-.00011**	**3.2705**	**-.00004**
Stddev	.00001	.00006	.00102	.00410	.00113	.0157	.00218	.00037	.0027	.00022
%RSD	.14994	20.656	1.4230	.70154	132.89	.51261	.55307	322.32	.08328	508.48
#1	.00819	.00034	.07221	.58131	.00165	3.0655	.39598	-.00037	3.2686	-.00020
#2	.00821	.00025	.07077	.58711	.00005	3.0434	.39289	.00015	3.2724	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00848**	**.00019**	**1.2858**	**-.00218**	**.00226**	**3.6260**	**7.7597**	**-.00021**	**.05732**	**.00028**
Stddev	.00244	.00044	.0051	.00010	.00207	.0134	.0287	.00050	.00008	.00081
%RSD	28.754	229.34	.39771	4.7693	91.524	.36994	.36994	236.00	.13851	287.03
#1	.00676	-.00012	1.2822	-.00225	.00373	3.6165	7.7394	.00014	.05738	.00085
#2	.01020	.00051	1.2894	-.00210	.00080	3.6355	7.7800	-.00057	.05727	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00112**	**-.02828**	**.00119**	**.01696**	**.00100**
Stddev	.00006	.00007	.01174	.00020	.00016	.00020
%RSD	22.550	5.8301	41.523	16.769	.92779	20.201
#1	.00029	.00117	-.01998	.00105	.01685	.00115
#2	.00021	.00108	-.03658	.00133	.01707	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4113.5**	**49305.**	**5728.9**
Stddev	7.4	147.	20.9
%RSD	.18104	.29854	.36464
#1	4108.2	49201.	5743.7
#2	4118.8	49409.	5714.2

Sample Name: 280-23650-a-3-b ms Acquired: 12/13/2011 17:30:49 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99499 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05107**	**1.9870**	**1.0314**	**1.0802**	**1.9669**	**.04954**	F **2.1229**	**106.94**	**.10182**	**.48591**
Stddev	.00029	.0031	.0037	.0004	.0037	.00004	.0018	.35	.00024	.00122
%RSD	.55837	.15532	.36321	.04070	.18631	.09060	.08275	.32957	.23977	.25131
#1	.05127	1.9892	1.0340	1.0799	1.9695	.04957	2.1241	107.19	.10164	.48677
#2	.05087	1.9848	1.0287	1.0805	1.9643	.04950	2.1217	106.69	.10199	.48504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23664**	**.25135**	**1.2847**	**52.181**	**.99864**	**63.756**	**2.3937**	**.98322**	**67.979**	**.49129**
Stddev	.00045	.00070	.0080	.277	.00395	.008	.0052	.00133	.116	.00030
%RSD	.19105	.27806	.62486	.53060	.39527	.01317	.21734	.13519	.17020	.06199
#1	.23696	.25085	1.2790	52.377	1.0014	63.762	2.3974	.98416	68.061	.49150
#2	.23632	.25184	1.2904	51.985	.99585	63.751	2.3901	.98228	67.897	.49107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **10.435**	**.49808**	**7.0359**	**.50687**	**2.0651**	**28.437**	**60.856**	**1.9689**	**1.2808**	**1.0118**
Stddev	.005	.00136	.0036	.00087	.0053	.092	.197	.0036	.0019	.0028
%RSD	.04607	.27242	.05143	.17255	.25905	.32400	.32400	.18005	.15225	.27613
#1	10.438	.49904	7.0334	.50625	2.0613	28.502	60.995	1.9714	1.2822	1.0138
#2	10.431	.49712	7.0385	.50749	2.0688	28.372	60.716	1.9664	1.2794	1.0099
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99674**	**1.9761**	**2.1030**	**.49675**	**.54337**	**.49654**
Stddev	.00001	.0033	.0095	.00079	.00252	.00305
%RSD	.00051	.16566	.45110	.15926	.46341	.61474
#1	.99674	1.9785	2.1097	.49731	.54515	.49869
#2	.99674	1.9738	2.0963	.49619	.54159	.49438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3964.7**	**47584.**	**5698.4**
Stddev	3.9	147.	6.2
%RSD	.09944	.30902	.10964
#1	3967.5	47480.	5702.8
#2	3961.9	47688.	5694.0

Sample Name: 280-23650-a-3-c msd Acquired: 12/13/2011 17:32:56 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99499 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05038**	**1.9959**	**1.0268**	**1.0835**	**1.9483**	**.04983**	F **2.1312**	**105.56**	**.10187**	**.48733**
Stddev	.00077	.0025	.0024	.0008	.0173	.00007	.0039	.53	.00030	.00203
%RSD	1.5260	.12366	.23319	.07786	.88637	.14859	.18137	.50132	.29163	.41633
#1	.05092	1.9942	1.0251	1.0829	1.9360	.04978	2.1284	105.19	.10166	.48590
#2	.04984	1.9977	1.0285	1.0841	1.9605	.04989	2.1339	105.93	.10208	.48877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23745**	**.25197**	**1.2613**	**51.548**	**.99498**	**63.331**	**2.3759**	**.98876**	**67.832**	**.49371**
Stddev	.00097	.00094	.0071	.265	.00913	.333	.0126	.00079	.282	.00183
%RSD	.40966	.37180	.56025	.51398	.91756	.52577	.52844	.07971	.41630	.37058
#1	.23676	.25263	1.2563	51.360	.98853	63.566	2.3848	.98820	67.632	.49242
#2	.23814	.25131	1.2663	51.735	1.0014	63.096	2.3670	.98931	68.032	.49501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **10.447**	**.49580**	**6.9408**	**.50670**	**2.0615**	**28.173**	**60.290**	**1.9816**	**1.2712**	**1.0031**
Stddev	.040	.00280	.0066	.00140	.0014	.138	.295	.0032	.0081	.0055
%RSD	.38023	.56480	.09478	.27641	.06913	.48955	.48955	.16088	.63771	.55245
#1	10.419	.49382	6.9361	.50571	2.0604	28.075	60.081	1.9793	1.2655	1.0070
#2	10.475	.49778	6.9454	.50769	2.0625	28.271	60.499	1.9838	1.2769	.99915
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0001**	**1.9799**	**2.1314**	**.49586**	**.54260**	**.49118**
Stddev	.0042	.0113	.0164	.00284	.00623	.00381
%RSD	.42161	.56842	.77035	.57181	1.1490	.77633
#1	1.0031	1.9720	2.1430	.49787	.54701	.48848
#2	.99710	1.9879	2.1198	.49386	.53819	.49387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3939.4**	**47299.**	**5730.3**
Stddev	9.5	50.	47.5
%RSD	.24066	.10625	.82946
#1	3946.1	47263.	5763.9
#2	3932.7	47334.	5696.7

Sample Name: 280-23650-a-3-aPDS Acquired: 12/13/2011 17:35:03 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99499 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04257**	**1.1703**	**.23484**	**.14334**	**.11843**	**.05693**	**.00575**	**79.500**	**.05872**	**.05604**
Stddev	.00037	.0079	.00458	.00023	.00072	.00010	.00041	.047	.00020	.00068
%RSD	.86475	.67192	1.9509	.15939	.60859	.18000	7.2034	.05951	.33301	1.2111
#1	.04283	1.1648	.23160	.14318	.11792	.05700	.00546	79.534	.05858	.05556
#2	.04231	1.1759	.23808	.14350	.11894	.05686	.00604	79.467	.05886	.05652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09588**	**.05789**	**1.4129**	**25.161**	**.11939**	**36.872**	**1.9163**	**.04989**	**40.011**	**.05648**
Stddev	.00056	.00028	.0012	.030	.00042	.010	.0028	.00025	.047	.00056
%RSD	.58841	.47596	.08150	.12019	.35509	.02809	.14415	.50126	.11712	.98264
#1	.09548	.05808	1.4121	25.140	.11909	36.864	1.9183	.04972	39.978	.05609
#2	.09628	.05769	1.4137	25.183	.11969	36.879	1.9144	.05007	40.044	.05688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **2.3893**	**.11098**	**6.6465**	**.09859**	**.23559**	**23.000**	**49.221**	**.09818**	**.33565**	**.23172**
Stddev	.0166	.00045	.0548	.00029	.00150	.038	.081	.00027	.00035	.00159
%RSD	.69495	.40315	.82511	.29520	.63737	.16494	.16494	.27881	.10329	.68643
#1	2.3776	.11066	6.6077	.09838	.23453	23.027	49.278	.09798	.33541	.23060
#2	2.4011	.11129	6.6853	.09879	.23665	22.973	49.163	.09837	.33590	.23285
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05242**	**.23098**	**.58862**	**.06228**	**.29036**	**.04966**
Stddev	.00008	.00128	.00622	.00004	.00002	.00119
%RSD	.16021	.55540	1.0563	.06381	.00633	2.3938
#1	.05236	.23189	.59301	.06225	.29038	.04882
#2	.05248	.23008	.58422	.06231	.29035	.05050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4028.7**	**48023.**	**5730.4**
Stddev	2.7	102.	5.9
%RSD	.06625	.21286	.10273
#1	4030.6	47951.	5726.2
#2	4026.8	48096.	5734.6

Sample Name: CCVH-1169743 Acquired: 12/13/2011 17:37:18 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**49.000**	**.00032**	**.00223**	**.00015**	**-.00013**	**.98790**	**-.00069**	**-.00078**	**.00064**	**.00036**	**-.00076**	**49.051**
Stddev	.00017	.043	.00124	.00019	.00037	.00004	.00110	.00145	.00010	.00010	.00016	.00035	.037
%RSD	1322.5	.08711	390.91	8.7461	248.91	34.104	.11136	208.65	12.958	16.149	46.055	45.975	.07542
#1	.00013	48.970	.00120	.00236	.00041	-.00016	.98712	.00033	-.00085	.00056	.00047	-.00051	49.077
#2	-.00010	49.030	-.00056	.00209	-.00011	-.00009	.98868	-.00172	-.00071	.00071	.00024	-.00100	49.025
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12921**	**.00204**	**-.00219**	**-.00148**	**-.00138**	**241.37**	**.00100**	**.00213**	**-.00041**	**4.8684**	**-.00181**	**.00597**	**.01259**
Stddev	.03052	.00045	.00194	.00001	.00064	.15	.00002	.00047	.00199	.0126	.00182	.00347	.00390
%RSD	23.619	21.849	88.307	.54556	46.545	.06327	1.8682	21.909	487.52	.25931	100.16	58.086	30.936
#1	.15078	.00236	-.00082	-.00148	-.00184	241.27	.00098	.00246	-.00182	4.8774	-.00310	.00352	.00984
#2	.10763	.00173	-.00356	-.00147	-.00093	241.48	.00101	.00180	.00100	4.8595	-.00053	.00842	.01535
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02695**	**.00325**	**.00039**	**4.7879**	**.00092**	**-.00407**	**10.021**	**-.00002**	**.00129**	**-.00968**
Stddev	.00834	.00066	.00001	.0215	.00027	.00225	.086	.00052	.00005	.00102
%RSD	30.936	20.370	2.3681	.44984	29.851	55.346	.85661	2295.1	4.0851	10.586
#1	.02106	.00371	.00040	4.8031	.00072	-.00566	10.081	.00035	.00125	-.01040
#2	.03285	.00278	.00039	4.7726	.00111	-.00248	9.9601	-.00039	.00133	-.00895
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3985.2**	**47591.**	**5701.8**
Stddev	5.2	189.	18.5
%RSD	.12981	.39695	.32527
#1	3981.5	47457.	5715.0
#2	3988.8	47724.	5688.7

Sample Name: CCV-1169927 Acquired: 12/13/2011 17:39:39 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48444**	**.50387**	**.98551**	**.49568**	**.48409**	**.49467**	**.00188**	**4.9161**	**.49561**	**.50081**	**.50240**	**.49566**	**2.4199**
Stddev	.00024	.00475	.00740	.00360	.00003	.00058	.00201	.0010	.00265	.00138	.00153	.00035	.0045
%RSD	.04898	.94358	.75131	.72583	.00520	.11710	106.91	.02004	.53428	.27585	.30487	.07028	.18755
#1	.48428	.50051	.98028	.49314	.48410	.49426	.00331	4.9154	.49374	.49983	.50132	.49541	2.4231
#2	.48461	.50723	.99075	.49823	.48407	.49508	.00046	4.9168	.49748	.50178	.50349	.49590	2.4166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.713**	**.98682**	**19.316**	**.48931**	**.49934**	**4.9858**	**.50035**	**.98319**	**.98982**	**-.00860**	**.98634**	**.98306**	**4.8901**
Stddev	.100	.00291	.032	.00139	.00298	.0008	.00139	.00512	.00120	.00332	.00202	.00363	.0202
%RSD	.20500	.29530	.16583	.28403	.59736	.01554	.27806	.52063	.12154	38.601	.20459	.36888	.41384
#1	48.642	.98476	19.294	.48833	.49723	4.9853	.49937	.97957	.98896	-.01095	.98491	.98050	4.8758
#2	48.784	.98888	19.339	.49030	.50144	4.9864	.50134	.98681	.99067	-.00626	.98777	.98562	4.9044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.465**	**1.0004**	**.49448**	**-.00274**	**.49755**	**1.0060**	**.00324**	**.48967**	**.48425**	**.48865**
Stddev	.043	.0071	.00100	.00023	.00063	.0036	.00781	.00016	.00181	.00136
%RSD	.41384	.70786	.20176	8.2658	.12679	.35292	241.01	.03294	.37312	.27818
#1	10.434	.99540	.49378	-.00290	.49710	1.0035	-.00228	.48978	.48553	.48769
#2	10.495	1.0054	.49519	-.00258	.49800	1.0085	.00877	.48955	.48297	.48961
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4060.7**	**48874.**	**5690.7**
Stddev	9.6	112.	26.8
%RSD	.23573	.23015	.47176
#1	4067.4	48954.	5671.7
#2	4053.9	48795.	5709.7

Sample Name: CCB Acquired: 12/13/2011 17:41:51 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00101**	**-.00075**	**.00052**	**-.00006**	**.00003**	**-.00030**	**-.00217**	**.00002**	**.00020**	**.00010**	**-.00007**	**.00043**
Stddev	.00016	.00145	.00022	.00004	.00020	.00004	.00029	.00025	.00009	.00020	.00004	.00002	.00006
%RSD	121.49	144.40	29.808	8.5927	323.94	141.49	95.991	11.405	388.37	97.738	38.903	32.666	13.714
#1	.00024	.00002	-.00090	.00049	-.00020	.00005	-.00010	-.00234	.00009	.00006	.00007	-.00009	.00039
#2	.00002	-.00204	-.00059	.00055	.00008	.00000	-.00050	-.00199	-.00004	.00034	.00012	-.00005	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06219**	**-.00009**	**-.00102**	**.00006**	**.00031**	**.07846**	**-.00010**	**-.00014**	**.00001**	**.01193**	**.00027**	**.00347**	**-.00141**
Stddev	.01903	.00163	.00270	.00001	.00004	.00564	.00029	.00024	.00005	.00082	.00009	.00486	.01458
%RSD	30.594	1874.9	264.69	17.126	13.707	7.1924	280.83	164.33	356.25	6.8512	33.919	140.28	1037.4
#1	.04874	-.00124	.00089	.00006	.00034	.08245	.00010	.00002	-.00002	.01251	.00020	.00690	-.01171
#2	.07565	.00107	-.00293	.00005	.00028	.07447	-.00031	-.00031	.00005	.01136	.00033	.00003	.00890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00301**	**-.00069**	**-.00004**	**-.00002**	**.00006**	**-.00010**	**.00361**	**-.00027**	**.00170**	**.00080**
Stddev	.03120	.00056	.00001	.00135	.00014	.00280	.04089	.00042	.00030	.00014
%RSD	1037.4	81.857	28.901	7925.8	231.25	2892.7	1133.5	157.03	17.756	17.452
#1	-.02507	-.00108	-.00003	-.00097	.00016	-.00207	.03252	.00003	.00191	.00089
#2	.01905	-.00029	-.00005	.00094	-.00004	.00188	-.02531	-.00057	.00149	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4069.0**	**49522.**	**5618.6**
Stddev	5.6	99.	23.6
%RSD	.13802	.19918	.42079
#1	4065.1	49452.	5601.9
#2	4073.0	49591.	5635.3

Sample Name: CCVL1171013 Acquired: 12/13/2011 17:44:15 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00984**	**.10694**	**.01383**	**.10535**	**.00966**	**.00103**	**.11294**	**.20238**	**.00507**	**.01058**	**.01042**	**.01527**	**.09924**	**3.0788**
Stddev	.00020	.00118	.00347	.00098	.00020	.00004	.00232	.00250	.00004	.00005	.00005	.00033	.00051	.0510
%RSD	2.0069	1.1074	25.079	.93346	2.1027	4.0407	2.0530	1.2376	.80566	.49902	.48224	2.1772	.51158	1.6578
#1	.00970	.10610	.01628	.10465	.00981	.00106	.11458	.20415	.00510	.01054	.01046	.01551	.09888	3.1149
#2	.00998	.10777	.01138	.10604	.00952	.00100	.11130	.20061	.00504	.01062	.01039	.01504	.09960	3.0427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00988**	**.20359**	**.01034**	**.02041**	**1.1116**	**.04120**	**3.1009**	**.00826**	**.00862**	**.00867**	**.01446**	**.50240**	**1.0751**	**.10372**
Stddev	.00089	.00092	.00009	.00002	.0031	.00031	.0161	.00125	.00774	.00105	.00492	.00220	.0047	.00133
%RSD	9.0611	.45213	.86906	.09792	.27890	.75819	.52000	15.147	89.726	12.142	34.011	.43800	.43800	1.2814
#1	.00924	.20294	.01041	.02043	1.1138	.04098	3.0895	.00737	.01410	.00942	.01794	.50396	1.0785	.10278
#2	.01051	.20424	.01028	.02040	1.1094	.04142	3.1123	.00914	.00315	.00793	.01098	.50084	1.0718	.10466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01013**	**.01535**	**.01044**	**.01790**	**.05163**	**.00995**	**.02190**	**.01655**
Stddev	.00010	.00015	.00013	.00041	.03714	.00034	.00032	.00093
%RSD	.97898	1.0091	1.2264	2.3045	71.948	3.3795	1.4427	5.6136
#1	.01020	.01546	.01053	.01819	.02536	.00972	.02212	.01589
#2	.01006	.01524	.01034	.01761	.07789	.01019	.02168	.01721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4176.1**	**50924.**	**5788.7**
Stddev	21.3	22.	13.0
%RSD	.50992	.04238	.22435
#1	4191.2	50909.	5779.5
#2	4161.1	50939.	5797.9

Sample Name: mb 280-99564/1-a Acquired: 12/13/2011 17:46:38 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**-.00030**	**-.00025**	**-.00050**	**.00027**	**-.00001**	**.00485**	**.01700**	**-.00012**	**.00040**
Stddev	.00049	.00065	.00150	.00011	.00035	.00006	.00227	.02045	.00013	.00005
%RSD	139.36	216.64	605.60	22.543	129.10	846.67	46.857	120.27	111.20	11.375
#1	-.00001	-.00077	.00081	-.00042	.00052	-.00005	.00646	.03147	-.00021	.00037
#2	-.00070	.00016	-.00131	-.00057	.00002	.00003	.00324	.00254	-.00002	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00344**	**.00028**	W **.03098**	**.04846**	**.00072**	**.00086**	**.00103**	**-.00005**	**.10008**	**.00024**
Stddev	.00009	.00029	.00452	.04277	.00020	.00045	.00001	.00024	.04191	.00013
%RSD	2.6026	100.68	14.595	88.254	28.396	52.148	1.3130	469.93	41.872	54.741
#1	.00338	.00049	.03417	.07870	.00086	.00118	.00104	.00012	.12972	.00014
#2	.00350	.00008	.02778	.01822	.00057	.00055	.00102	-.00022	.07045	.00033
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.03000							
Low Limit			-.05000							

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**-.00044**	F **.01106**	**-.00276**	**-.00145**	**.00199**	**.00426**	**-.00139**	**.00012**	**-.00094**
Stddev	.00018	.00134	.00191	.00219	.00062	.02189	.04685	.00047	.00025	.00077
%RSD	49.535	307.09	17.245	79.245	42.994	1100.4	1100.4	33.971	202.86	81.290
#1	-.00050	.00051	.01241	-.00431	-.00189	.01747	.03739	-.00172	.00030	-.00149
#2	-.00024	-.00138	.00971	-.00121	-.00101	-.01349	-.02887	-.00106	-.00005	-.00040
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.01000							
Low Limit			-.01000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00159**	**.00279**	**.00006**	**.00466**	**.00107**
Stddev	.00004	.00097	.00406	.00011	.00087	.00085
%RSD	18.974	61.034	145.58	188.01	18.740	79.630
#1	.00020	.00090	.00566	-.00002	.00528	.00047
#2	.00026	.00228	-.00008	.00014	.00404	.00167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4150.1**	**50360.**	**5349.9**
Stddev	9.0	35.	544.2
%RSD	.21777	.06909	10.173
#1	4156.5	50335.	4965.0
#2	4143.8	50385.	5734.7

Sample Name: lcs 280-99564/2-a Acquired: 12/13/2011 17:49:03 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05125**	**2.0056**	**1.0376**	**1.0543**	**1.9724**	**.05025**	**2.1453**	**48.556**	**.10273**	**.49820**
Stddev	.00020	.0069	.0037	.0009	.0023	.00015	.0012	.037	.00003	.00093
%RSD	.39235	.34674	.35344	.08335	.11865	.29811	.05529	.07623	.03040	.18701
#1	.05139	2.0106	1.0402	1.0549	1.9708	.05036	2.1445	48.582	.10271	.49886
#2	.05111	2.0007	1.0350	1.0537	1.9741	.05015	2.1461	48.530	.10276	.49754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20189**	**.25358**	**.99796**	**49.567**	**.99634**	**49.826**	**.49998**	**1.0022**	**51.883**	**.50491**
Stddev	.00108	.00085	.00220	.158	.00330	.062	.00048	.0021	.079	.00042
%RSD	.53401	.33684	.22056	.31880	.33087	.12442	.09649	.20913	.15266	.08270
#1	.20265	.25298	.99952	49.455	.99867	49.783	.49964	1.0037	51.827	.50461
#2	.20113	.25419	.99641	49.679	.99401	49.870	.50032	1.0007	51.939	.50520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.488**	**.50726**	**-.00297**	**.50910**	**2.0659**	**9.9591**	F **21.312**	**2.0143**	**1.0049**	**1.0224**
Stddev	.050	.00245	.00161	.00309	.0116	.0082	.018	.0013	.0011	.0047
%RSD	.47498	.48278	54.245	.60787	.55900	.08266	.08266	.06663	.11269	.45974
#1	10.524	.50899	-.00411	.51129	2.0577	9.9533	21.300	2.0133	1.0057	1.0191
#2	10.453	.50552	-.00183	.50691	2.0740	9.9649	21.325	2.0152	1.0041	1.0257
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							24.610			
Low Limit							20.100			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0212**	**2.0329**	**2.1522**	**.50113**	**.49913**	**.49980**
Stddev	.0003	.0058	.0181	.00190	.00052	.00224
%RSD	.02759	.28477	.84098	.37818	.10463	.44753
#1	1.0210	2.0288	2.1650	.49979	.49876	.49822
#2	1.0214	2.0370	2.1394	.50247	.49950	.50138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3984.4**	**47562.**	**5700.8**
Stddev	10.1	74.	40.0
%RSD	.25334	.15495	.70169
#1	3977.3	47614.	5729.1
#2	3991.6	47510.	5672.5

Sample Name: 280-23669-b-2-a Acquired: 12/13/2011 17:51:10 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.01037**	**.00341**	**.03641**	**.07049**	**-.00005**	**.00500**	**41.521**	**.00023**	**.00806**
Stddev	.00007	.00074	.00056	.00004	.00014	.00005	.00066	.192	.00001	.00031
%RSD	15.553	7.1388	16.488	.11333	.19448	101.84	13.267	.46122	5.8880	3.8401
#1	-.00050	.00985	.00301	.03638	.07059	-.00001	.00546	41.656	.00022	.00784
#2	-.00040	.01089	.00381	.03644	.07039	-.00008	.00453	41.385	.00024	.00828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.00131**	**1.4490**	**2.3677**	**.00504**	**11.187**	**.52541**	**.00116**	**14.442**	**.00436**
Stddev	.00006	.00024	.0133	.0320	.00022	.001	.00156	.00015	.033	.00012
%RSD	12.154	18.312	.91592	1.3531	4.3491	.00720	.29690	12.983	.22659	2.7087
#1	.00057	.00148	1.4584	2.3451	.00519	11.187	.52651	.00126	14.465	.00444
#2	.00048	.00114	1.4396	2.3904	.00488	11.186	.52431	.00105	14.419	.00428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06506**	**-.00027**	**3.2781**	**-.00164**	**.00258**	**19.981**	**42.760**	**.00019**	**.17896**	**-.00001**
Stddev	.00061	.00001	.0241	.00043	.00128	.053	.114	.00006	.00024	.00121
%RSD	.93978	5.1846	.73588	26.218	49.691	.26752	.26752	28.963	.13338	10163.
#1	.06463	-.00028	3.2611	-.00195	.00348	20.019	42.841	.00023	.17879	.00084
#2	.06550	-.00026	3.2952	-.00134	.00167	19.944	42.680	.00015	.17913	-.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00115**	**.00211**	**-.00564**	**.00483**	**.00395**	**.00177**
Stddev	.00022	.00028	.00392	.00016	.00050	.00048
%RSD	18.856	13.411	69.454	3.3012	12.702	26.854
#1	.00100	.00191	-.00841	.00472	.00431	.00211
#2	.00131	.00231	-.00287	.00495	.00360	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4087.5**	**49179.**	**5785.5**
Stddev	16.3	81.	2.0
%RSD	.39877	.16463	.03382
#1	4099.1	49122.	5784.1
#2	4076.0	49236.	5786.9

Sample Name: 280-23669-b-3-a Acquired: 12/13/2011 17:53:32 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00435**	**.14867**	**.00287**	**.04490**	**.00764**	**-.00003**	**.00817**	**15.620**	**.00027**	**-.00009**
Stddev	.00016	.00044	.00140	.00042	.00023	.00006	.00211	.024	.00005	.00005
%RSD	3.5858	.29639	48.711	.93727	2.9804	161.12	25.854	.15500	17.237	63.969
#1	-.00424	.14898	.00188	.04520	.00748	.00000	.00667	15.603	.00023	-.00005
#2	-.00446	.14836	.00385	.04460	.00780	-.00007	.00966	15.637	.00030	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09989**	**.00058**	**.17246**	**4.0783**	**.00525**	**3.6737**	F **44.279**	**-.00153**	**117.09**	**.00099**
Stddev	.00066	.00004	.00290	.0274	.00029	.0026	.177	.00014	.45	.00032
%RSD	.65757	6.9045	1.6840	.67218	5.5035	.06984	.39874	9.4163	.38094	31.891
#1	.10035	.00061	.17040	4.0590	.00546	3.6755	44.154	-.00143	116.78	.00077
#2	.09942	.00055	.17451	4.0977	.00505	3.6719	44.403	-.00164	117.41	.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							20.000			
Low Limit							-.02000			

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11623**	**.00630**	**4.4938**	**-.00719**	**.00763**	**19.651**	**42.052**	**-.00084**	**.08048**	**-.00400**
Stddev	.00121	.00090	.0115	.00055	.00257	.005	.010	.00036	.00009	.00064
%RSD	1.0393	14.349	.25594	7.7062	33.655	.02400	.02400	43.165	.10831	16.052
#1	.11708	.00566	4.4857	-.00758	.00582	19.647	42.045	-.00109	.08042	-.00355
#2	.11537	.00694	4.5020	-.00680	.00945	19.654	42.059	-.00058	.08055	-.00446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01325**	**.02249**	W **-.07874**	F **-.02617**	**.00781**	**.00174**
Stddev	.00002	.00021	.00058	.00051	.00040	.00020
%RSD	.14538	.93396	.73268	1.9373	5.1087	11.379
#1	.01326	.02264	-.07833	-.02581	.00809	.00160
#2	.01323	.02234	-.07915	-.02653	.00753	.00188
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Fail	Chk Pass	Chk Pass
High Limit			45.000	50.000		
Low Limit			-.05000	-.02000		

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4035.1**	**47840.**	**5742.1**
Stddev	.1	142.	1.1
%RSD	.00138	.29758	.01976
#1	4035.1	47941.	5741.3
#2	4035.2	47740.	5742.9

Sample Name: 280-23669-b-4-a Acquired: 12/13/2011 17:55:58 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00204**	**.07118**	**.00043**	**.11012**	**.08264**	**.00001**	**.00539**	**86.252**	**.00030**	**.00039**
Stddev	.00007	.00260	.00399	.00010	.00024	.00000	.00098	.095	.00021	.00011
%RSD	3.4945	3.6561	932.58	.09114	.29420	18.216	18.135	.10974	67.935	27.338
#1	-.00209	.07302	-.00240	.11004	.08282	.00001	.00608	86.319	.00016	.00031
#2	-.00199	.06934	.00325	.11019	.08247	.00001	.00470	86.185	.00045	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09269**	**.00141**	**.07657**	**6.2349**	**.00737**	**22.084**	W **17.982**	**-.00040**	**111.94**	**.00252**
Stddev	.00013	.00011	.00071	.0403	.00063	.046	.089	.00020	.06	.00048
%RSD	.14564	7.8683	.92228	.64564	8.5449	.20966	.49675	50.175	.05490	18.974
#1	.09279	.00149	.07707	6.2633	.00693	22.117	17.919	-.00054	111.90	.00218
#2	.09259	.00134	.07607	6.2064	.00782	22.052	18.045	-.00026	111.99	.00286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit							10.000			
Low Limit							-.01000			

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14844**	**.00197**	**4.5355**	**-.00325**	**.00374**	**20.451**	**43.764**	**-.00152**	**.40652**	**-.00267**
Stddev	.00043	.00039	.0227	.00021	.00265	.033	.071	.00022	.00090	.00140
%RSD	.29264	19.865	.50016	6.6075	70.645	.16337	.16337	14.668	.22054	52.458
#1	.14813	.00169	4.5194	-.00310	.00187	20.474	43.815	-.00136	.40715	-.00168
#2	.14875	.00225	4.5515	-.00340	.00562	20.427	43.714	-.00167	.40589	-.00366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00620**	**.00829**	**-.04302**	**-.00185**	**.01384**	**.00224**
Stddev	.00045	.00073	.01765	.00009	.00041	.00009
%RSD	7.2986	8.8127	41.020	5.1226	2.9636	4.0563
#1	.00588	.00777	-.05550	-.00178	.01355	.00230
#2	.00652	.00880	-.03054	-.00192	.01413	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3959.1**	**47429.**	**5719.2**
Stddev	2.2	224.	13.2
%RSD	.05667	.47169	.23078
#1	3957.5	47588.	5728.6
#2	3960.7	47271.	5709.9

Sample Name: 280-23669-b-5-a Acquired: 12/13/2011 17:58:23 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.58551**	**.00010**	**.02623**	**.01150**	**.00006**	**.00477**	**44.027**	**.00015**	**.00036**
Stddev	.00036	.00372	.00159	.00006	.00003	.00007	.00189	.019	.00008	.00006
%RSD	72.742	.63501	1539.4	.22477	.24397	125.19	39.561	.04358	53.119	16.513
#1	-.00074	.58288	.00123	.02618	.01152	.00001	.00344	44.041	.00010	.00031
#2	-.00024	.58814	-.00102	.02627	.01148	.00011	.00611	44.014	.00021	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00141**	**.72735**	**2.1666**	**.00406**	**12.016**	**.02690**	**.00003**	**13.334**	**.00138**
Stddev	.00001	.00001	.00330	.0164	.00072	.024	.00026	.00003	.246	.00000
%RSD	.84235	.77357	.45407	.75493	17.767	.19629	.97924	92.519	1.8457	.05012
#1	.00101	.00142	.72501	2.1781	.00457	12.033	.02672	.00001	13.160	.00138
#2	.00100	.00140	.72968	2.1550	.00355	12.000	.02709	.00005	13.508	.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07008**	**.00067**	**3.3227**	**-.00186**	**-.00120**	**21.518**	**46.048**	**-.00050**	**.21196**	**-.00072**
Stddev	.00321	.00005	.0188	.00118	.00292	.044	.094	.00026	.00095	.00028
%RSD	4.5740	7.5920	.56712	63.750	243.05	.20329	.20329	52.519	.44667	39.080
#1	.06781	.00070	3.3094	-.00102	-.00327	21.487	45.982	-.00069	.21129	-.00052
#2	.07234	.00063	3.3360	-.00270	.00086	21.549	46.114	-.00032	.21263	-.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05785**	**.00167**	**.01131**	**.00860**	**.00506**	**.00348**
Stddev	.00201	.00009	.01651	.00000	.00002	.00040
%RSD	3.4724	5.5229	145.91	.01577	.42276	11.556
#1	.05643	.00160	-.00036	.00860	.00505	.00376
#2	.05927	.00173	.02299	.00860	.00508	.00319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4105.9**	**49524.**	**5870.5**
Stddev	16.1	119.	22.8
%RSD	.39174	.24028	.38784
#1	4117.3	49608.	5886.6
#2	4094.5	49440.	5854.4

Sample Name: 280-23669-b-6-a Acquired: 12/13/2011 18:00:44 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**1.6823**	**.00357**	**.54020**	**.23036**	**.00016**	**.00535**	**169.08**	**.00056**	**.00549**
Stddev	.00018	.0032	.00027	.00089	.00149	.00008	.00123	1.33	.00001	.00018
%RSD	66.607	.18808	7.5777	.16556	.64621	46.652	23.079	.78799	1.4867	3.2700
#1	-.00014	1.6846	.00338	.54083	.22931	.00022	.00447	168.14	.00057	.00561
#2	-.00040	1.6801	.00376	.53957	.23141	.00011	.00622	170.02	.00056	.00536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00929**	**.05053**	**3.8521**	**15.386**	**.01364**	**54.122**	**7.3706**	**.00012**	**147.02**	**.03976**
Stddev	.00011	.00048	.0143	.124	.00003	.183	.1124	.00004	1.12	.00016
%RSD	1.1359	.95343	.37022	.80825	.21209	.33848	1.5251	35.691	.75875	.39236
#1	.00936	.05019	3.8421	15.298	.01362	54.251	7.4501	.00009	146.23	.03987
#2	.00921	.05087	3.8622	15.474	.01366	53.992	7.2911	.00015	147.81	.03965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46077**	**.00243**	**8.6829**	**-.00363**	**-.00020**	**24.489**	**52.406**	**-.00173**	**.69661**	**-.00018**
Stddev	.00044	.00007	.0676	.00125	.00187	.191	.408	.00016	.00515	.00013
%RSD	.09655	2.8918	.77837	34.287	912.95	.77927	.77927	9.2234	.73962	68.718
#1	.46046	.00238	8.7307	-.00452	.00112	24.354	52.118	-.00184	.69297	-.00009
#2	.46109	.00248	8.6352	-.00275	-.00153	24.624	52.695	-.00162	.70025	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28127**	**.00487**	**-.01328**	**.02373**	**.05773**	**.00733**
Stddev	.00047	.00124	.00158	.00046	.00017	.00014
%RSD	.16576	25.543	11.871	1.9396	.29756	1.9700
#1	.28160	.00575	-.01439	.02405	.05786	.00723
#2	.28094	.00399	-.01216	.02340	.05761	.00744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3903.4**	**46665.**	**5764.0**
Stddev	5.4	117.	30.0
%RSD	.13829	.25022	.51984
#1	3899.6	46582.	5785.2
#2	3907.3	46747.	5742.8

Sample Name: CCVH-1169743 Acquired: 12/13/2011 18:03:10 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**49.462**	**-.00431**	**.00211**	**.00023**	**-.00015**	**1.0009**	**.00642**	**-.00073**	**.00086**	**.00030**	**-.00070**	**49.489**
Stddev	.00041	.112	.00025	.00009	.00019	.00001	.0026	.00109	.00006	.00020	.00023	.00024	.001
%RSD	86.555	.22605	5.7954	4.3834	83.747	4.0328	.26084	17.003	8.4770	22.925	77.870	34.283	.00193
#1	-.00076	49.383	-.00449	.00217	.00009	-.00015	1.0027	.00720	-.00069	.00100	.00013	-.00053	49.490
#2	-.00018	49.542	-.00413	.00204	.00036	-.00014	.99905	.00565	-.00078	.00072	.00046	-.00087	49.488
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11434**	**.00218**	**-.00471**	**-.00134**	**-.00215**	**244.02**	**.00040**	**.00076**	**-.00104**	**4.9761**	**-.00235**	**.00041**	**.02915**
Stddev	.00597	.00129	.00274	.00006	.00009	.48	.00003	.00067	.00080	.0418	.00161	.00242	.01165
%RSD	5.2230	59.235	58.162	4.1435	4.1146	.19827	8.5852	87.292	76.704	.83948	68.738	595.01	39.948
#1	.11856	.00127	-.00278	-.00138	-.00209	243.67	.00038	.00123	-.00161	5.0056	-.00121	-.00130	.03739
#2	.11012	.00309	-.00665	-.00130	-.00222	244.36	.00043	.00029	-.00048	4.9465	-.00349	.00211	.02092
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06239**	**.00219**	**.00043**	**4.8644**	**.00114**	**-.00435**	**10.176**	**-.00055**	**.00192**	**-.01180**
Stddev	.02492	.00008	.00007	.0085	.00022	.00080	.046	.00018	.00037	.00126
%RSD	39.948	3.5485	16.154	.17440	18.939	18.440	.45331	33.199	19.064	10.710
#1	.08001	.00213	.00048	4.8584	.00099	-.00492	10.144	-.00068	.00218	-.01269
#2	.04477	.00224	.00038	4.8704	.00130	-.00378	10.209	-.00042	.00166	-.01091
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3940.1**	**47058.**	**5624.5**
Stddev	25.0	30.	.7
%RSD	.63484	.06275	.01253
#1	3922.4	47079.	5624.0
#2	3957.8	47037.	5625.0

Sample Name: CCV-1169927 Acquired: 12/13/2011 18:05:31 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48795**	**.51186**	**1.0024**	**.49745**	**.48829**	**.49883**	**.00033**	**4.9663**	**.49982**	**.50623**	**.50730**	**.49686**	**2.4544**
Stddev	.00116	.00287	.0004	.00134	.00113	.00005	.00182	.0010	.00023	.00041	.00024	.00132	.0108
%RSD	.23702	.56065	.04357	.26927	.23114	.01102	549.80	.02093	.04685	.08186	.04659	.26647	.44182
#1	.48713	.50983	1.0028	.49651	.48909	.49879	-.00096	4.9656	.49966	.50653	.50714	.49592	2.4467
#2	.48876	.51389	1.0021	.49840	.48749	.49887	.00162	4.9671	.49999	.50594	.50747	.49780	2.4621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.223**	**.99904**	**19.438**	**.49223**	**.50400**	**5.0577**	**.50602**	**.99796**	**1.0017**	**-.01013**	**.99348**	**1.0006**	**4.9390**
Stddev	.101	.00281	.009	.00007	.00014	.0636	.00075	.00187	.0025	.00107	.00064	.0011	.0146
%RSD	.20431	.28121	.04428	.01401	.02802	1.2580	.14850	.18727	.25360	10.559	.06396	.10967	.29640
#1	49.294	1.0010	19.445	.49228	.50410	5.0127	.50549	.99664	.99990	-.01088	.99393	.99980	4.9286
#2	49.152	.99706	19.432	.49218	.50390	5.1027	.50655	.99928	1.0035	-.00937	.99303	1.0013	4.9493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.569**	**1.0101**	**.49968**	**-.00139**	**.50061**	**1.0093**	**.00134**	**.49348**	**.49205**	**.49592**
Stddev	.031	.0014	.00092	.00112	.00034	.0029	.00511	.00134	.00195	.00011
%RSD	.29640	.14289	.18373	80.860	.06871	.29203	381.84	.27105	.39547	.02210
#1	10.547	1.0091	.50033	-.00218	.50085	1.0072	-.00228	.49253	.49343	.49585
#2	10.592	1.0111	.49903	-.00059	.50037	1.0114	.00495	.49442	.49067	.49600
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4024.2**	**48496.**	**5651.4**
Stddev	5.2	113.	.4
%RSD	.12892	.23242	.00665
#1	4027.9	48417.	5651.1
#2	4020.6	48576.	5651.7

Sample Name: CCB Acquired: 12/13/2011 18:07:43 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00214**	**-.00010**	**.00060**	**-.00006**	**.00004**	**-.00241**	**.00028**	**.00007**	**.00010**	**.00013**	**-.00030**	**-.00140**
Stddev	.00078	.00008	.00017	.00005	.00005	.00002	.00039	.00031	.00010	.00019	.00033	.00008	.00049
%RSD	415.00	3.9296	165.06	8.8052	89.423	50.449	16.062	112.72	136.79	190.55	258.85	25.870	35.126
#1	-.00074	-.00220	-.00022	.00056	-.00009	.00002	-.00214	.00050	.00000	.00023	.00036	-.00025	-.00175
#2	.00037	-.00208	.00002	.00064	-.00002	.00005	-.00269	.00006	.00014	-.00003	-.00010	-.00036	-.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07204**	**.00114**	**-.00005**	**.00012**	**.00055**	**.07393**	**-.00012**	**-.00051**	**.00161**	**.00633**	**.00020**	**.00201**	**.00033**
Stddev	.00136	.00130	.00111	.00005	.00013	.00151	.00012	.00054	.00034	.00311	.00122	.00340	.00845
%RSD	1.8923	113.65	2084.8	38.589	23.989	2.0479	98.282	106.52	21.020	49.209	615.15	169.21	2573.0
#1	.07107	.00206	-.00084	.00015	.00046	.07500	-.00004	-.00089	.00184	.00413	.00106	-.00040	-.00565
#2	.07300	.00022	.00073	.00009	.00064	.07286	-.00020	-.00012	.00137	.00853	-.00066	.00442	.00631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00011**	**.00009**	**-.00133**	**.00042**	**.00003**	**-.02197**	**-.00006**	**.00140**	**.00043**
Stddev	.01809	.00022	.00008	.00056	.00012	.00007	.02186	.00022	.00051	.00066
%RSD	2573.0	197.69	93.379	41.983	28.022	226.36	99.513	345.71	36.462	151.98
#1	-.01209	-.00004	.00015	-.00173	.00034	.00008	-.00651	.00009	.00104	-.00003
#2	.01350	.00027	.00003	-.00094	.00051	-.00002	-.03742	-.00022	.00176	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4035.5**	**49737.**	**5580.3**
Stddev	9.4	55.	4.0
%RSD	.23212	.11105	.07233
#1	4042.1	49776.	5577.4
#2	4028.8	49698.	5583.1

Sample Name: CCVL1171013 Acquired: 12/13/2011 18:10:08 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00994**	**.10625**	**.01469**	**.10476**	**.00990**	**.00101**	**.11267**	**.20167**	**.00510**	**.01061**	**.01033**	**.01577**	**.09798**
Stddev	.00019	.00015	.00013	.00037	.00010	.00000	.00240	.00235	.00014	.00003	.00000	.00003	.00245
%RSD	1.8651	.14546	.89041	.35088	.97788	.14098	2.1308	1.1653	2.8320	.26670	.02653	.16655	2.5015
#1	.00981	.10614	.01460	.10502	.00997	.00101	.11437	.20334	.00520	.01063	.01033	.01579	.09625
#2	.01007	.10636	.01479	.10450	.00984	.00101	.11097	.20001	.00499	.01059	.01033	.01575	.09972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1128**	F **.01383**	**.20460**	**.01058**	**.02051**	**1.0930**	**.04160**	**3.1080**	**.00879**	**.00330**	**.00963**	**.01431**	**.49747**
Stddev	.0126	.00005	.00077	.00002	.00025	.0008	.00027	.0038	.00021	.00356	.00034	.00085	.00504
%RSD	.40542	.34759	.37428	.22138	1.2154	.07603	.65462	.12169	2.3520	107.92	3.5033	5.9196	1.0134
#1	3.1218	.01386	.20514	.01057	.02033	1.0936	.04141	3.1053	.00894	.00582	.00987	.01491	.50103
#2	3.1039	.01379	.20406	.01060	.02068	1.0925	.04179	3.1107	.00865	.00078	.00939	.01371	.49390
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value		.01000											
Range		30.000%											

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0646**	**.10460**	**.01008**	**.01498**	**.01059**	**.01663**	**.05033**	**.00946**	**.02201**	**.01685**
Stddev	.0108	.00215	.00001	.00020	.00046	.00118	.00831	.00046	.00018	.00065
%RSD	1.0134	2.0539	.06822	1.3450	4.3247	7.0979	16.516	4.8834	.79938	3.8591
#1	1.0722	.10308	.01008	.01512	.01026	.01747	.04446	.00978	.02213	.01731
#2	1.0570	.10612	.01009	.01484	.01091	.01580	.05621	.00913	.02188	.01639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4154.2**	**50270.**	**5701.9**
Stddev	11.3	20.	44.7
%RSD	.27208	.04030	.78356
#1	4162.1	50256.	5733.5
#2	4146.2	50285.	5670.3

Sample Name: 280-23669-b-7-a Acquired: 12/13/2011 18:12:31 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00245**	**-.00047**	**.34973**	**.03948**	**.00004**	**.00434**	**165.72**	**.00030**	**.00033**
Stddev	.00003	.00021	.00127	.00027	.00027	.00000	.00098	1.20	.00016	.00008
%RSD	7.6047	8.7283	271.58	.07783	.68571	.12374	22.643	.72369	52.812	22.997
#1	-.00039	.00230	-.00137	.34992	.03967	.00004	.00364	166.57	.00042	.00028
#2	-.00044	.00260	.00043	.34954	.03929	.00004	.00503	164.87	.00019	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04509**	**.00395**	**.00555**	**16.320**	**.01330**	**51.700**	**.02568**	**.00020**	**245.62**	**.00979**
Stddev	.00027	.00009	.00033	.085	.00111	.214	.00006	.00020	1.80	.00008
%RSD	.60095	2.3113	6.0050	.51960	8.3483	.41455	.23162	101.15	.73123	.82638
#1	.04528	.00388	.00531	16.380	.01252	51.851	.02572	.00006	246.89	.00973
#2	.04490	.00401	.00579	16.260	.01409	51.548	.02564	.00034	244.35	.00984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11802**	**-.00141**	**22.921**	**-.00491**	**.00224**	**18.329**	**39.225**	**-.00112**	**.64934**	**-.00255**
Stddev	.00120	.00012	.167	.00099	.00354	.123	.263	.00005	.00465	.00204
%RSD	1.0205	8.3229	.72958	20.114	158.07	.67043	.67043	4.7778	.71594	80.147
#1	.11887	-.00133	23.039	-.00561	.00474	18.416	39.410	-.00108	.65263	-.00110
#2	.11716	-.00150	22.803	-.00421	-.00026	18.242	39.039	-.00116	.64605	-.00399
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.00203**	**.03666**	**.00084**	**.00356**	**.00214**
Stddev	.00010	.00085	.00820	.00004	.00031	.00053
%RSD	8.5856	41.847	22.358	4.8674	8.6534	24.571
#1	.00129	.00263	.04245	.00081	.00378	.00251
#2	.00114	.00143	.03086	.00086	.00334	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3854.4**	**45970.**	**5704.2**
Stddev	15.8	22.	38.6
%RSD	.41045	.04794	.67688
#1	3843.2	45986.	5676.9
#2	3865.6	45955.	5731.5

Sample Name: 280-23669-b-8-a Acquired: 12/13/2011 18:14:52 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.14099**	**.00255**	**.19238**	**.02800**	**.00005**	**.00561**	**126.67**	**.00014**	**.00278**
Stddev	.00036	.00088	.00227	.00016	.00005	.00002	.00044	.53	.00002	.00010
%RSD	177.97	.62068	88.934	.08546	.17689	45.670	7.8942	.41560	17.204	3.6194
#1	-.00046	.14161	.00416	.19249	.02803	.00007	.00529	127.04	.00012	.00271
#2	.00005	.14037	.00095	.19226	.02796	.00003	.00592	126.30	.00016	.00285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.00242**	**.34919**	**5.7743**	**.00943**	**35.014**	**2.7438**	**.00202**	**41.673**	**.00982**
Stddev	.00004	.00006	.00191	.0195	.00128	.063	.0110	.00008	.142	.00005
%RSD	6.2600	2.5393	.54619	.33736	13.576	.17993	.40106	3.7556	.34167	.54691
#1	.00066	.00237	.35054	5.7881	.01034	35.058	2.7516	.00196	41.774	.00986
#2	.00072	.00246	.34784	5.7605	.00853	34.969	2.7361	.00207	41.572	.00978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19153**	**.00030**	**4.4985**	**-.00386**	**-.00094**	**19.792**	**42.354**	**-.00069**	**.52433**	**-.00009**
Stddev	.00190	.00110	.0034	.00012	.00067	.073	.156	.00072	.00191	.00113
%RSD	.98958	368.12	.07610	3.2079	71.217	.36868	.36868	104.26	.36410	1197.0
#1	.19287	.00108	4.5009	-.00395	-.00142	19.843	42.465	-.00018	.52568	.00071
#2	.19019	-.00048	4.4961	-.00377	-.00047	19.740	42.244	-.00120	.52298	-.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01819**	**.00208**	**-.02642**	**.00672**	**.00548**	**.00186**
Stddev	.00003	.00090	.02443	.00026	.00030	.00062
%RSD	.13920	43.196	92.478	3.7985	5.4695	33.406
#1	.01817	.00144	-.00914	.00690	.00527	.00230
#2	.01820	.00272	-.04370	.00654	.00569	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3972.5**	**47851.**	**5742.5**
Stddev	3.6	47.	38.1
%RSD	.09028	.09872	.66336
#1	3969.9	47817.	5769.4
#2	3975.0	47884.	5715.5

Sample Name: 280-23669-b-9-a Acquired: 12/13/2011 18:17:19 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**.00933**	**.00087**	**.16503**	**.03365**	**.00006**	**.00422**	**85.491**	**.00029**	**.00078**
Stddev	.00022	.00073	.00089	.00060	.00005	.00003	.00159	.063	.00017	.00010
%RSD	25.116	7.8057	101.92	.36190	.16154	47.103	37.595	.07313	58.149	12.554
#1	-.00071	.00881	.00024	.16461	.03368	.00004	.00535	85.447	.00017	.00085
#2	-.00102	.00984	.00150	.16545	.03361	.00008	.00310	85.536	.00040	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00982**	**.00243**	**.02348**	**7.3401**	**.00870**	**22.916**	**3.7979**	**-.00029**	**98.422**	**.00374**
Stddev	.00015	.00018	.00247	.0523	.00004	.045	.0213	.00020	.273	.00005
%RSD	1.4825	7.2473	10.512	.71244	.49187	.19777	.56129	68.663	.27782	1.2503
#1	.00992	.00231	.02174	7.3032	.00873	22.884	3.8130	-.00015	98.228	.00378
#2	.00971	.00256	.02523	7.3771	.00867	22.948	3.7828	-.00043	98.615	.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09557**	**.00088**	**15.360**	**-.00318**	**.00070**	**18.295**	**39.151**	**-.00096**	**.35747**	**-.00160**
Stddev	.00205	.00101	.030	.00191	.00105	.014	.030	.00022	.00107	.00026
%RSD	2.1431	115.55	.19555	59.896	150.83	.07664	.07664	22.924	.29937	16.174
#1	.09702	.00016	15.338	-.00184	-.00005	18.305	39.173	-.00081	.35672	-.00179
#2	.09412	.00159	15.381	-.00453	.00144	18.285	39.130	-.00112	.35823	-.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.00360**	**-.01643**	**.00239**	**.00986**	**.00136**
Stddev	.00001	.00079	.01567	.00019	.00019	.00055
%RSD	.66354	22.026	95.349	7.9743	1.9532	40.846
#1	.00203	.00416	-.00535	.00226	.00973	.00175
#2	.00201	.00304	-.02751	.00253	.01000	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3965.9**	**47661.**	**5725.3**
Stddev	1.8	60.	17.6
%RSD	.04625	.12650	.30796
#1	3964.6	47703.	5737.8
#2	3967.2	47618.	5712.8

Sample Name: 280-23669-b-10-a Acquired: 12/13/2011 18:19:47 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00158**	**.00130**	**.08444**	**.00999**	**-.00006**	**.00371**	**91.252**	**.00009**	**.00008**
Stddev	.00018	.00189	.00085	.00025	.00008	.00005	.00067	.407	.00007	.00005
%RSD	71.363	119.64	65.215	.30110	.76786	81.324	18.129	.44597	85.168	72.648
#1	.00038	-.00291	.00070	.08462	.01005	-.00002	.00418	90.964	.00014	.00004
#2	.00013	-.00024	.00190	.08426	.00994	-.00009	.00323	91.540	.00003	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00246**	**.00064**	**.00430**	**4.4082**	**.00483**	**23.965**	**.50244**	**-.00022**	**26.086**	**.00096**
Stddev	.00006	.00002	.00283	.0486	.00073	.054	.00156	.00001	.226	.00019
%RSD	2.3832	3.4638	65.711	1.1024	15.041	.22657	.30999	6.5602	.86511	19.965
#1	.00251	.00062	.00630	4.3738	.00535	23.927	.50133	-.00023	26.245	.00110
#2	.00242	.00065	.00230	4.4425	.00432	24.004	.50354	-.00021	25.926	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08482**	**-.00047**	**24.396**	**-.00331**	**-.00034**	**18.117**	**38.770**	**-.00089**	**.40610**	**-.00060**
Stddev	.00141	.00083	.071	.00146	.00224	.078	.166	.00018	.00181	.00087
%RSD	1.6668	177.76	.28999	44.078	656.71	.42879	.42879	19.663	.44486	146.03
#1	.08382	.00012	24.446	-.00228	.00125	18.062	38.652	-.00077	.40483	-.00121
#2	.08582	-.00105	24.346	-.00435	-.00193	18.172	38.887	-.00102	.40738	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.00272**	**-.01050**	**.00109**	**.00410**	**.00102**
Stddev	.00019	.00040	.00479	.00029	.00015	.00037
%RSD	15.322	14.720	45.637	26.736	3.7763	36.324
#1	.00108	.00244	-.01388	.00129	.00421	.00128
#2	.00134	.00300	-.00711	.00088	.00399	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4011.0**	**48255.**	**5754.9**
Stddev	.4	45.	56.9
%RSD	.01026	.09428	.98912
#1	4011.2	48287.	5795.1
#2	4010.7	48223.	5714.6

Sample Name: 280-23669-b-11-a Acquired: 12/13/2011 18:22:09 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00974**	**.00432**	**.00186**	**.14608**	**.01533**	k **-.00004**	**.01247**	**67.928**	k **.00046**	k **-.00004**
Stddev	.00036	.00147	.00179	.00021	.00002	.00002	.00094	.033	.00003	.00006
%RSD	3.7172	33.954	96.277	.14493	.14317	60.045	7.5252	.04886	6.6604	152.53
#1	-.01000	.00328	.00312	.14623	.01535	k -.00006	.01180	67.952	k .00044	k .00000
#2	-.00949	.00536	.00059	.14593	.01532	k -.00002	.01313	67.905	k .00048	k -.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21425**	k **.00102**	**.01231**	**9.0362**	**.00867**	**18.478**	^ *****	**-.00394**	**202.93**	**.00170**
Stddev	.00034	.00015	.00279	.0019	.00106	.044	-----	.00016	.00	.00005
%RSD	.15768	14.546	22.692	.02160	12.278	.24038	-----	4.1836	.00137	3.1202
#1	.21449	k .00112	.01033	9.0348	.00943	18.447	^ -----	-.00382	202.93	.00166
#2	.21401	k .00091	.01428	9.0376	.00792	18.509	^ -----	-.00405	202.92	.00174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16959**	k **.01366**	k **10.936**	W **-.01422**	k **.07709**	**19.971**	**42.738**	**-.00226**	**.33940**	**-.00683**
Stddev	.00210	.00029	.019	.00100	.00391	.021	.045	.00106	.00099	.00186
%RSD	1.2366	2.1259	.16995	7.0357	5.0709	.10578	.10578	47.054	.29285	27.289
#1	.16811	k .01387	k 10.923	-.01351	k .07985	19.986	42.770	-.00151	.33870	-.00814
#2	.17107	k .01346	k 10.949	-.01493	k .07433	19.956	42.706	-.00301	.34011	-.00551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				2.0000						
Low Limit				-.01000						

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00155**	k **.12555**	F **-.23370**	kF **-.15988**	**.00494**	**.00179**
Stddev	.00002	.00147	.01224	.00020	.00026	.00075
%RSD	1.5922	1.1745	5.2356	.12268	5.1785	42.075
#1	.00153	k .12451	-.22505	k -.15974	.00512	.00126
#2	.00156	k .12659	-.24235	k -.16002	.00476	.00232
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit			50.000	50.000		
Low Limit			-.10000	-.02000		

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3987.7**	**46999.**	**5777.7**
Stddev	1.3	35.	5.8
%RSD	.03294	.07363	.10020
#1	3988.6	47023.	5773.6
#2	3986.8	46974.	5781.8

Sample Name: 280-23669-b-12-a Acquired: 12/13/2011 18:24:33 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00231**	**.00129**	**.35000**	**.03984**	**.00005**	**.00328**	**167.22**	k **.00026**	k **.00030**
Stddev	.00019	.00028	.00088	.00153	.00008	.00000	.00145	.45	.00016	.00003
%RSD	59.664	12.004	67.916	.43651	.19685	5.5458	44.137	.26870	58.711	11.074
#1	-.00018	.00212	.00067	.34892	.03990	.00005	.00226	167.54	.00037	.00027
#2	-.00045	.00251	.00191	.35108	.03979	.00005	.00430	166.90	k .00015	k .00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04405**	k **.00336**	**.00320**	**16.528**	**.01389**	**51.938**	^ *****	**-.00010**	**246.83**	**.00984**
Stddev	.00043	.00014	.00272	.064	.00060	.030	-----	.00006	.14	.00004
%RSD	.98480	4.2413	84.996	.38918	4.3297	.05808	-----	56.213	.05561	.44348
#1	.04374	.00326	.00512	16.483	.01347	51.959	.01218	-.00014	246.92	.00987
#2	.04435	k .00347	.00127	16.574	.01432	51.917	^ -----	-.00006	246.73	.00981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11856**	k **.00061**	k **23.238**	**-.00481**	k **-.00080**	**18.390**	**39.355**	**-.00178**	**.65780**	**-.00238**
Stddev	.00093	.00062	.166	.00181	.00088	.048	.103	.00013	.00090	.00028
%RSD	.78166	102.91	.71525	37.597	110.66	.26297	.26297	7.2033	.13643	11.818
#1	.11791	.00017	23.120	-.00609	-.00017	18.424	39.428	-.00169	.65844	-.00258
#2	.11922	k .00105	k 23.355	-.00353	k -.00142	18.356	39.282	-.00187	.65717	-.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	k **.00346**	**.04075**	k **.00092**	**.00314**	**.00100**
Stddev	.00023	.00116	.02415	.00028	.00009	.00010
%RSD	16.543	33.563	59.269	30.540	2.7168	10.035
#1	.00122	.00428	.05783	.00112	.00320	.00093
#2	.00154	k .00264	.02367	k .00072	.00308	.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3831.4**	**45803.**	**5659.1**
Stddev	14.0	66.	25.3
%RSD	.36583	.14377	.44688
#1	3841.3	45849.	5677.0
#2	3821.5	45756.	5641.2

Sample Name: CCVH-1169743 Acquired: 12/13/2011 18:26:54 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**48.880**	**-.00115**	**.00173**	**.00039**	**-.00013**	**.98776**	**.00752**	**-.00064**	**.00094**	**.00035**	**-.00115**	**48.722**
Stddev	.00039	.101	.00210	.00022	.00007	.00004	.00678	.00080	.00002	.00009	.00023	.00012	.083
%RSD	80.315	.20647	182.63	12.680	17.124	31.263	.68595	10.655	3.3115	10.105	65.965	10.047	.17009
#1	-.00021	48.809	.00034	.00188	.00044	-.00010	.99255	.00809	-.00066	.00101	.00019	-.00123	48.780
#2	-.00077	48.952	-.00264	.00157	.00034	-.00015	.98297	.00696	-.00063	.00087	.00052	-.00107	48.663
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13979**	**.00267**	**-.00212**	**.00052**	**-.00179**	**241.53**	**.00066**	**.00158**	**-.00111**	**4.9136**	**-.00172**	**.00529**	**.02353**
Stddev	.00185	.00037	.00093	.00007	.00019	.48	.00002	.00046	.00156	.0234	.00321	.00015	.00524
%RSD	1.3205	13.789	43.751	14.242	10.368	.20067	2.4273	29.143	140.26	.47542	186.27	2.8599	22.264
#1	.14109	.00241	-.00147	.00047	-.00166	241.19	.00065	.00190	-.00001	4.9301	.00055	.00539	.01983
#2	.13848	.00293	-.00278	.00057	-.00192	241.87	.00067	.00125	-.00221	4.8971	-.00399	.00518	.02723
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05035**	**.00252**	**.00042**	**4.8049**	**.00111**	**-.00361**	**10.120**	**.00012**	**.00175**	**-.00859**
Stddev	.01121	.00052	.00002	.0075	.00030	.00156	.002	.00017	.00024	.00075
%RSD	22.264	20.755	5.7256	.15660	26.571	43.050	.02039	150.97	13.541	8.7062
#1	.04243	.00215	.00043	4.8102	.00132	-.00251	10.121	.00024	.00192	-.00912
#2	.05828	.00289	.00040	4.7996	.00090	-.00471	10.118	-.00001	.00159	-.00806
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3946.6**	**47408.**	**5619.5**
Stddev	20.1	27.	16.1
%RSD	.51052	.05748	.28579
#1	3932.3	47388.	5630.9
#2	3960.8	47427.	5608.1

Sample Name: CCV-1169927 Acquired: 12/13/2011 18:29:13 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48493**	**.51159**	**.99449**	**.49211**	**.48401**	**.49271**	**.00363**	**4.9149**	**.49260**	**.50022**	**.49937**	**.49174**	**2.4140**
Stddev	.00132	.00246	.00332	.00366	.00315	.00116	.00144	.0335	.00072	.00013	.00005	.00045	.0159
%RSD	.27174	.48181	.33349	.74425	.65011	.23575	39.745	.68058	.14530	.02677	.00938	.09094	.65870
#1	.48400	.50984	.99684	.48952	.48178	.49188	.00465	4.8913	.49210	.50012	.49940	.49143	2.4028
#2	.48586	.51333	.99215	.49470	.48623	.49353	.00261	4.9386	.49311	.50031	.49933	.49206	2.4252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.711**	**.98658**	**19.295**	**.49039**	**.49629**	**4.9815**	**.50028**	**.98742**	**.99274**	**-.00738**	**.98093**	**.99158**	**4.8879**
Stddev	.240	.00660	.068	.00066	.00026	.0018	.00061	.00253	.00369	.00023	.00748	.00399	.0360
%RSD	.49197	.66870	.35344	.13385	.05314	.03572	.12110	.25626	.37125	3.1216	.76269	.40259	.73714
#1	48.541	.98192	19.247	.48993	.49610	4.9802	.49985	.98921	.99013	-.00754	.97564	.98875	4.8624
#2	48.880	.99125	19.343	.49086	.49647	4.9828	.50070	.98563	.99535	-.00721	.98622	.99440	4.9134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.460**	**.99589**	**.49308**	**-.00224**	**.49422**	**.99539**	**-.01403**	**.48836**	**.48795**	**.48525**
Stddev	.077	.00039	.00211	.00008	.00114	.00346	.00897	.00011	.00156	.00046
%RSD	.73714	.03966	.42751	3.6004	.23062	.34722	63.906	.02166	.32028	.09548
#1	10.406	.99617	.49158	-.00230	.49341	.99294	-.02037	.48843	.48906	.48492
#2	10.515	.99562	.49457	-.00218	.49502	.99783	-.00769	.48828	.48685	.48558
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4034.7**	**48636.**	**5601.6**
Stddev	4.7	48.	26.0
%RSD	.11689	.09908	.46477
#1	4038.0	48670.	5620.0
#2	4031.3	48601.	5583.2

Sample Name: CCB Acquired: 12/13/2011 18:31:23 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00124**	**-.00121**	**.00006**	**-.00004**	**.00004**	**-.00200**	**.00321**	**.00016**	**.00009**	**-.00001**	**.00006**	**.00101**
Stddev	.00005	.00136	.00032	.00027	.00001	.00005	.00025	.00310	.00003	.00028	.00020	.00020	.00106
%RSD	18.815	109.57	26.550	442.45	34.265	109.95	12.330	96.354	21.870	303.29	1845.8	321.37	105.51
#1	-.00022	-.00220	-.00098	.00025	-.00005	.00001	-.00182	.00540	.00018	-.00010	-.00015	.00021	.00176
#2	-.00029	-.00028	-.00143	-.00013	-.00003	.00008	-.00217	.00102	.00013	.00029	.00013	-.00008	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07171**	**-.00012**	**.00071**	F **.00088**	**.00035**	**.08468**	**-.00003**	**-.00084**	**-.00075**	**.00992**	**.00064**	**-.00019**	**-.00950**
Stddev	.01281	.00070	.00124	.00004	.00002	.00410	.00015	.00128	.00046	.00625	.00191	.00482	.00250
%RSD	17.866	570.04	172.84	4.2191	4.6079	4.8425	437.65	152.62	61.927	63.041	296.58	2598.0	26.313
#1	.08077	-.00062	-.00016	.00090	.00036	.08758	.00007	.00007	-.00108	.00550	.00200	-.00359	-.01127
#2	.06265	.00037	.00159	.00085	.00034	.08178	-.00014	-.00174	-.00042	.01434	-.00071	.00322	-.00774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00051									
Low Limit				-.00051									

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02034**	**-.00022**	**.00002**	**.00071**	**.00016**	**-.00001**	**-.01788**	**-.00024**	**.00163**	**.00122**
Stddev	.00535	.00036	.00000	.00115	.00004	.00014	.02732	.00021	.00057	.00033
%RSD	26.313	160.32	9.3576	162.43	23.133	1102.2	152.78	85.079	34.956	26.960
#1	-.02412	-.00048	.00003	-.00011	.00014	-.00011	.00144	-.00010	.00203	.00145
#2	-.01656	.00003	.00002	.00153	.00019	.00009	-.03720	-.00039	.00123	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4043.3**	**49655.**	**5595.8**
Stddev	2.1	88.	18.5
%RSD	.05077	.17695	.33038
#1	4041.9	49593.	5582.8
#2	4044.8	49717.	5608.9

Sample Name: CCVL1171013 Acquired: 12/13/2011 18:33:49 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01021**	**.10443**	**.01428**	**.10484**	**.00983**	**.00104**	**.11388**	**.20374**	**.00510**	**.01071**	**.01032**	**.01527**	**.10054**	**3.0782**
Stddev	.00035	.00168	.00111	.00037	.00014	.00005	.00068	.00051	.00006	.00002	.00024	.00042	.00368	.0053
%RSD	3.3901	1.6083	7.7905	.34882	1.3738	4.6196	.60028	.24888	1.1559	.22335	2.3462	2.7318	3.6601	.17347
#1	.01046	.10562	.01349	.10510	.00974	.00107	.11436	.20338	.00506	.01069	.01015	.01556	.10314	3.0820
#2	.00997	.10324	.01506	.10459	.00993	.00101	.11339	.20410	.00514	.01073	.01049	.01497	.09794	3.0744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01126**	**.20449**	**.01070**	**.02035**	**1.1098**	**.04130**	**3.1066**	**.00917**	**.00515**	**.00954**	**.01411**	**.50004**	**1.0701**	**.10446**
Stddev	.00132	.00064	.00002	.00017	.0101	.00014	.0046	.00047	.00356	.00018	.00152	.00057	.0012	.00041
%RSD	11.694	.31173	.19330	.81520	.91052	.33314	.14943	5.0799	69.255	1.9335	10.783	.11464	.11464	.38863
#1	.01033	.20404	.01071	.02023	1.1170	.04140	3.1099	.00884	.00767	.00941	.01519	.50044	1.0709	.10417
#2	.01219	.20495	.01069	.02047	1.1027	.04120	3.1033	.00950	.00263	.00967	.01304	.49963	1.0692	.10475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01006**	**.01421**	**.01041**	**.01804**	**.06201**	**.00953**	**.02213**	**.01719**
Stddev	.00004	.00066	.00002	.00009	.00695	.00004	.00044	.00030
%RSD	.39903	4.6219	.21051	.52133	11.205	.45942	1.9930	1.7161
#1	.01003	.01467	.01040	.01811	.06693	.00956	.02244	.01740
#2	.01009	.01374	.01043	.01797	.05710	.00950	.02182	.01699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4174.0**	**50888.**	**5725.4**
Stddev	12.3	270.	4.3
%RSD	.29533	.53093	.07448
#1	4165.2	50697.	5722.4
#2	4182.7	51079.	5728.4

Sample Name: 280-23669-d-13-a Acquired: 12/13/2011 18:36:10 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	kF **-.03310**	**.06273**	k **.00476**	**.13655**	k **.02114**	k **-.00013**	k **.03006**	**89.006**	k **.00130**	k **-.00035**
Stddev	.00033	.00407	.00057	.00013	.00009	.00004	.00194	.068	.00008	.00011
%RSD	.99004	6.4867	11.880	.09335	.43056	32.692	6.4598	.07665	6.0308	32.772
#1	k -.03287	.06561	k .00516	.13646	k .02107	k -.00016	k .02869	89.054	k .00136	k -.00027
#2	k -.03334	.05986	k .00436	.13664	k .02120	k -.00010	k .03143	88.958	k .00125	k -.00043
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-.02000									

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.29519**	k **-.00028**	**.05756**	**14.772**	**.01206**	k **22.253**	^ *****	W **-.01311**	W **587.78**	**.00254**
Stddev	.00125	.00008	.00082	.002	.00022	.111	-----	.00002	.21	.00007
%RSD	.42266	27.979	1.4221	.01217	1.8544	.49930	-----	.16919	.03565	2.7648
#1	k .29608	k -.00023	.05698	14.773	.01190	k 22.174	^ -----	-.01312	587.63	.00259
#2	k .29431	k -.00034	.05814	14.771	.01222	k 22.331	^ -----	-.01309	587.93	.00249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass
High Limit								5.0000	500.00	
Low Limit								-.01000	10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.03035**	k **.04746**	k **16.101**	kF **-.02534**	k **.23428**	k **20.026**	k **42.856**	k **-.00333**	**.49039**	kF **-.04042**
Stddev	.00020	.00161	.028	.00068	.00147	.010	.021	.00104	.00048	.00011
%RSD	.66229	3.4007	.17224	2.6676	.62691	.04864	.04864	31.293	.09691	.27479
#1	-.03021	k .04632	k 16.120	k -.02486	k .23532	k 20.033	k 42.871	k -.00406	.49073	k -.04050
#2	-.03049	k .04860	k 16.081	k -.02582	k .23324	k 20.019	k 42.841	k -.00259	.49006	k -.04034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				50.000						50.000
Low Limit				-.02000						-.02000

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.00253**	k **.39134**	kF **-.70903**	^ *****	k **.03066**	k **.00271**
Stddev	.00015	.00649	.05423	-----	.00025	.00048
%RSD	6.0012	1.6579	7.6486	-----	.80440	17.786
#1	k .00263	k .39593	k -.74738	^ -----	k .03048	k .00306
#2	k .00242	k .38675	k -.67068	^ -----	k .03083	k .00237
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			50.000			
Low Limit			-.10000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3881.4**	**44583.**	**5689.8**
Stddev	12.5	51.	27.9
%RSD	.32249	.11519	.48952
#1	3872.5	44620.	5709.5
#2	3890.2	44547.	5670.1

Sample Name: 280-23669-d-13-aSD@5 Acquired: 12/13/2011 18:38:40 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00688**	**.01468**	**.00299**	**.02656**	**.00422**	k **.00002**	**.00459**	**17.974**	k **.00029**	k **-.00012**
Stddev	.00028	.00038	.00228	.00012	.00031	.00002	.00017	.016	.00004	.00030
%RSD	4.0432	2.5805	76.225	.45520	7.3956	82.187	3.7277	.09032	13.631	244.45
#1	-.00669	.01441	.00460	.02647	.00445	k .00003	.00471	17.986	k .00032	k -.00034
#2	-.00708	.01495	.00138	.02665	.00400	k .00001	.00447	17.963	k .00027	k .00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06126**	k **.00016**	**.01808**	**2.9418**	**.00552**	**4.4959**	^ *****	**-.00302**	**117.41**	**.00034**
Stddev	.00004	.00049	.00109	.0096	.00127	.0135	-----	.00015	.19	.00022
%RSD	.07331	296.85	6.0362	.32588	22.991	.29961	-----	4.9325	.15866	65.947
#1	.06129	k .00051	.01730	2.9350	.00462	4.5054	^ -----	-.00313	117.54	.00018
#2	.06123	k -.00018	.01885	2.9486	.00642	4.4863	^ -----	-.00292	117.28	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00869**	k **.01060**	k **3.0839**	**-.00690**	k **.05207**	**3.9046**	**8.3558**	**-.00156**	**.09772**	**-.00645**
Stddev	.00106	.00029	.0069	.00053	.00145	.0144	.0307	.00008	.00015	.00183
%RSD	12.251	2.7000	.22388	7.6109	2.7804	.36763	.36763	5.2226	.15084	28.295
#1	-.00793	k .01081	k 3.0887	-.00653	k .05105	3.8945	8.3341	-.00150	.09762	-.00774
#2	-.00944	k .01040	k 3.0790	-.00728	k .05310	3.9148	8.3776	-.00162	.09783	-.00516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	k **.08523**	F **-.10309**	kF **-.09492**	**.00965**	**.00075**
Stddev	.00027	.00183	.02547	.00046	.00058	.00012
%RSD	43.059	2.1450	24.711	.48248	6.0480	15.561
#1	.00044	k .08652	-.08508	k -.09459	.00923	.00083
#2	.00083	k .08394	-.12110	k -.09524	.01006	.00067
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit			50.000	50.000		
Low Limit			-.10000	-.02000		

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3989.3**	**47578.**	**5722.3**
Stddev	16.0	214.	16.6
%RSD	.40143	.44901	.28952
#1	3978.0	47427.	5710.6
#2	4000.7	47729.	5734.0

Sample Name: 280-23669-d-13-b ms Acquired: 12/13/2011 18:41:07 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	kW **-.01092**	**1.8194**	k **.21352**	**1.0882**	k **1.9674**	k **.04993**	kF **2.0383**	**135.93**	k **.10326**	k **.44448**
Stddev	.00028	.0047	.00077	.0015	.0046	.00029	.0020	.32	.00021	.00016
%RSD	2.5706	.25807	.35844	.13445	.23145	.58504	.09837	.23569	.19858	.03635
#1	k -.01112	1.8160	k .21298	1.0872	k 1.9641	k .05014	k 2.0369	136.16	k .10340	k .44459
#2	k -.01072	1.8227	k .21406	1.0892	k 1.9706	k .04973	k 2.0397	135.70	k .10311	k .44437
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000						.10000			
Low Limit	-.01000						-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.57325**	k **.25441**	**.85475**	**60.924**	**1.0293**	k **67.614**	^ *****	W **-.01872**	W **649.25**	**.45517**
Stddev	.00150	.00095	.00693	.102	.0003	.455	-----	.00030	.07	.00087
%RSD	.26135	.37311	.81047	.16671	.02481	.67255	-----	1.5889	.01084	.19047
#1	k .57219	k .25509	.85965	60.995	1.0295	k 67.936	^ -----	-.01851	649.20	.45455
#2	k .57431	k .25374	.84985	60.852	1.0291	k 67.293	^ -----	-.01893	649.30	.45578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass
High Limit								5.0000	500.00	
Low Limit								-.01000	10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **7.5181**	k **.31120**	k **17.297**	k **.15640**	k **2.3102**	k **30.314**	k **64.873**	**1.6945**	**1.4997**	k **.88920**
Stddev	.0203	.00134	.057	.00097	.0055	.021	.046	.0076	.0007	.00449
%RSD	.26930	.43035	.33065	.62330	.23923	.07057	.07057	.44674	.04479	.50531
#1	7.5038	k .31215	k 17.337	k .15571	k 2.3141	k 30.330	k 64.905	1.6891	1.4992	k .89238
#2	7.5325	k .31025	k 17.256	k .15709	k 2.3063	k 30.299	k 64.841	1.6998	1.5002	k .88603
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.55625**	k **2.4397**	k **.67392**	^ *****	k **.49743**	k **.49602**
Stddev	.00371	.0030	.03794	-----	.00299	.00022
%RSD	.66770	.12360	5.6301	-----	.60208	.04517
#1	k .55888	k 2.4376	k .70075	^ -----	k .49954	k .49618
#2	k .55363	k 2.4419	k .64709	^ -----	k .49531	k .49587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3872.7**	**43709.**	**5609.3**
Stddev	15.0	169.	36.0
%RSD	.38616	.38728	.64223
#1	3883.2	43590.	5634.7
#2	3862.1	43829.	5583.8

Sample Name: 280-23669-d-13-c msd Acquired: 12/13/2011 18:43:23 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	kW **-.01395**	**1.8280**	k **.28480**	**1.0846**	k **1.9895**	k **.05007**	kF **2.0517**	**135.59**	k **.10407**	k **.44874**
Stddev	.00065	.0084	.00174	.0007	.0096	.00041	.0006	.37	.00002	.00001
%RSD	4.6524	.45841	.60980	.06500	.48434	.81720	.02771	.27208	.02223	.00229
#1	k -.01441	1.8221	k .28357	1.0841	k 1.9963	k .05036	k 2.0513	135.86	k .10408	k .44874
#2	k -.01349	1.8340	k .28603	1.0851	k 1.9826	k .04978	k 2.0521	135.33	k .10405	k .44873
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000						.10000			
Low Limit	-.01000						-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.57639**	k **.25810**	**.91020**	**61.413**	**1.0437**	k **68.122**	^ *****	W **-.01532**	W **647.23**	**.45768**
Stddev	.00101	.00113	.00477	.244	.0087	.075	-----	.00012	3.87	.00100
%RSD	.17445	.43695	.52424	.39740	.83621	.11046	-----	.77291	.59771	.21935
#1	k .57710	k .25890	.91358	61.585	1.0498	k 68.068	^ -----	-.01524	649.96	.45697
#2	k .57568	k .25730	.90683	61.240	1.0375	k 68.175	^ -----	-.01541	644.49	.45839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass
High Limit								5.0000	500.00	
Low Limit								-.01000	10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **7.9590**	k **.32697**	k **17.591**	k **.17091**	k **2.3936**	k **30.262**	k **64.761**	**1.7013**	**1.5118**	k **.90243**
Stddev	.0118	.00187	.050	.00017	.0120	.197	.421	.0038	.0040	.00267
%RSD	.14763	.57041	.28465	.09782	.50142	.65021	.65021	.22430	.26356	.29558
#1	7.9507	k .32828	k 17.555	k .17079	k 2.3852	k 30.401	k 65.059	1.7040	1.5146	k .90055
#2	7.9673	k .32565	k 17.626	k .17103	k 2.4021	k 30.123	k 64.463	1.6986	1.5090	k .90432
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.59556**	k **2.4859**	k **.63341**	^ *****	k **.50223**	k **.49936**
Stddev	.00005	.0056	.00091	-----	.00279	.00445
%RSD	.00818	.22402	.14399	-----	.55628	.89125
#1	k .59559	k 2.4898	k .63405	^ -----	k .50025	k .50251
#2	k .59552	k 2.4820	k .63276	^ -----	k .50420	k .49622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3845.9**	**43134.**	**5605.1**
Stddev	4.9	324.	20.2
%RSD	.12723	.75041	.35956
#1	3849.4	43363.	5590.8
#2	3842.5	42905.	5619.3

Sample Name: 280-23669-d-13-aPDS Acquired: 12/13/2011 18:45:41 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.01380**	**1.1354**	k **.23887**	**.23377**	k **.13157**	k **.05618**	k **.02760**	**108.28**	k **.06095**	k **.05231**
Stddev	.00015	.0025	.00054	.00125	.00147	.00056	.00178	1.36	.00015	.00049
%RSD	1.0879	.22195	.22774	.53297	1.1196	1.0017	6.4534	1.2564	.24057	.93817
#1	k .01390	1.1337	k .23849	.23465	k .13261	k .05658	k .02886	109.25	k .06085	k .05266
#2	k .01369	1.1372	k .23926	.23289	k .13053	k .05579	k .02634	107.32	k .06106	k .05197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.34330**	k **.05818**	**1.1392**	**36.936**	**.13226**	k **42.611**	^ *****	**.03310**	W **599.97**	**.05511**
Stddev	.00054	.00062	.0077	.451	.00161	.112	-----	.00032	6.17	.00005
%RSD	.15663	1.0640	.67735	1.2219	1.2174	.26236	-----	.96984	1.0286	.08871
#1	k .34292	k .05862	1.1447	37.255	.13340	k 42.690	^ -----	.03288	604.34	.05508
#2	k .34368	k .05774	1.1338	36.617	.13112	k 42.532	^ -----	.03333	595.61	.05515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **2.3332**	k **.15083**	k **15.893**	k **.07288**	k **.46023**	k **24.479**	k **52.385**	k **.08889**	**.53873**	k **.21280**
Stddev	.0063	.00146	.052	.00123	.00295	.334	.715	.00137	.00675	.00081
%RSD	.26775	.96992	.32610	1.6909	.64030	1.3656	1.3656	1.5370	1.2534	.38012
#1	2.3376	k .15187	k 15.929	k .07375	k .46232	k 24.715	k 52.890	k .08793	.54351	k .21223
#2	2.3288	k .14980	k 15.856	k .07200	k .45815	k 24.242	k 51.879	k .08986	.53396	k .21338
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.05353**	k **.58329**	kW **-.09521**	^ *****	k **.24537**	k **.05763**
Stddev	.00026	.00113	.01038	-----	.00128	.00264
%RSD	.47919	.19424	10.903	-----	.52274	4.5751
#1	k .05335	k .58248	k -.08787	^ -----	k .24627	k .05949
#2	k .05371	k .58409	k -.10256	^ -----	k .24446	k .05577
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			45.000			
Low Limit			-.05000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3875.2**	**44731.**	**5735.8**
Stddev	4.4	135.	16.9
%RSD	.11341	.30130	.29407
#1	3872.1	44635.	5723.9
#2	3878.4	44826.	5747.7

Sample Name: 280-23669-b-14-a Acquired: 12/13/2011 18:48:03 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00707**	**.00172**	**.00106**	**.23632**	**.02609**	k **-.00006**	**.00879**	**99.289**	k **.00043**	k **.00002**
Stddev	.00004	.00133	.00189	.00000	.00025	.00005	.00131	.716	.00001	.00010
%RSD	.51990	76.845	177.49	.00009	.96809	92.230	14.894	.72144	2.6095	424.89
#1	-.00709	.00266	-.00027	.23632	.02627	k -.00002	.00786	99.796	k .00042	k .00009
#2	-.00704	.00079	.00240	.23632	.02591	k -.00010	.00971	98.783	k .00043	k -.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24085**	k **.00092**	**.00529**	**10.599**	**.01589**	**25.288**	^ *****	**-.00298**	**248.56**	**.00163**
Stddev	.00041	.00001	.00069	.097	.00032	.081	-----	.00011	1.29	.00006
%RSD	.16898	1.2457	13.119	.91403	2.0247	.32066	-----	3.7876	.51748	3.9682
#1	.24114	k .00091	.00578	10.668	.01566	25.346	^ -----	-.00306	249.47	.00168
#2	.24056	k .00093	.00480	10.531	.01612	25.231	^ -----	-.00290	247.65	.00159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12281**	k **.01049**	k **15.466**	**-.00995**	k **.05555**	**20.059**	**42.926**	**-.00301**	**.47151**	**-.00493**
Stddev	.00033	.00047	.030	.00020	.00140	.140	.299	.00015	.00288	.00038
%RSD	.26480	4.5273	.19175	2.0116	2.5221	.69735	.69735	5.0008	.61131	7.7032
#1	.12304	k .01015	k 15.445	-.01009	k .05456	20.158	43.137	-.00290	.47354	-.00520
#2	.12258	k .01082	k 15.487	-.00981	k .05654	19.960	42.714	-.00311	.46947	-.00466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	k **.09152**	F **-.16737**	kF **-.10525**	**.00672**	**.00131**
Stddev	.00002	.00108	.00431	.00051	.00022	.00016
%RSD	2.5768	1.1800	2.5750	.48508	3.2058	12.300
#1	.00098	k .09076	-.17041	k -.10489	.00688	.00143
#2	.00094	k .09229	-.16432	k -.10561	.00657	.00120
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit			50.000	50.000		
Low Limit			-.10000	-.02000		

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3946.4**	**46766.**	**5761.0**
Stddev	1.9	72.	39.4
%RSD	.04745	.15416	.68325
#1	3945.1	46817.	5733.1
#2	3947.7	46715.	5788.8

Sample Name: 280-23669-b-15-a Acquired: 12/13/2011 18:50:26 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00484**	**.09139**	**.00315**	**.20157**	**.04151**	k **-.00001**	**.00819**	**173.18**	k **.00042**	k **.00010**
Stddev	.00037	.00018	.00170	.00154	.00008	.00002	.00014	.28	.00008	.00005
%RSD	7.7289	.19890	53.974	.76645	.19550	157.47	1.6844	.16198	19.166	48.857
#1	-.00510	.09127	.00436	.20048	.04146	k .00000	.00809	172.99	k .00036	k .00014
#2	-.00457	.09152	.00195	.20266	.04157	k -.00002	.00829	173.38	k .00048	k .00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12663**	k **.00133**	**.16224**	**5.3112**	**.00987**	**45.282**	^ *****	**-.00175**	**56.944**	**.00146**
Stddev	.00051	.00016	.00031	.0274	.00032	.004	-----	.00006	.447	.00027
%RSD	.40095	11.718	.19386	.51571	3.2091	.00831	-----	3.3384	.78547	18.535
#1	.12627	k .00144	.16246	5.2918	.00964	45.279	^ -----	-.00179	57.260	.00127
#2	.12699	k .00122	.16202	5.3306	.01009	45.285	^ -----	-.00171	56.627	.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12859**	k **.00751**	k **35.137**	**-.00787**	k **.03328**	**21.490**	**45.988**	**-.00100**	**.87248**	**-.00479**
Stddev	.00257	.00051	.029	.00028	.00251	.019	.040	.00018	.00152	.00097
%RSD	1.9977	6.7483	.08305	3.4990	7.5444	.08634	.08634	17.673	.17462	20.245
#1	.12678	k .00787	k 35.117	-.00807	k .03505	21.503	46.016	-.00112	.87140	-.00410
#2	.13041	k .00716	k 35.158	-.00768	k .03150	21.476	45.960	-.00087	.87356	-.00547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01766**	k **.06135**	F **-.10651**	kF **-.05172**	**.00446**	**.00182**
Stddev	.00030	.00136	.03218	.00023	.00036	.00018
%RSD	1.7071	2.2159	30.217	.43700	8.0233	10.093
#1	.01744	k .06039	-.12927	k -.05156	.00421	.00169
#2	.01787	k .06231	-.08376	k -.05188	.00472	.00195
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit			50.000	50.000		
Low Limit			-.10000	-.02000		

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3946.2**	**47400.**	**5741.8**
Stddev	8.4	64.	23.9
%RSD	.21194	.13415	.41622
#1	3952.2	47445.	5758.7
#2	3940.3	47355.	5724.9

Sample Name: 280-23669-b-16-a Acquired: 12/13/2011 18:52:49 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99564 6010B A3

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.70781**	**.00252**	**.20128**	**.03533**	**.00005**	**.00372**	**193.04**	**.00021**	**.00103**
Stddev	.00012	.00335	.00059	.00012	.00021	.00001	.00283	.71	.00001	.00004
%RSD	184.99	.47358	23.243	.06127	.58520	18.525	76.084	.36866	6.6290	4.3771
#1	.00002	.70544	.00293	.20119	.03518	.00005	.00572	192.54	.00022	.00099
#2	-.00015	.71018	.00211	.20137	.03548	.00004	.00172	193.54	.00020	.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00967**	**.00246**	**1.0760**	**7.1685**	**.01078**	**50.986**	**.03796**	**-.00003**	**42.000**	**.00361**
Stddev	.00019	.00014	.0002	.0096	.00259	.032	.00053	.00028	.129	.00010
%RSD	2.0071	5.5691	.01467	.13386	24.060	.06236	1.4053	1080.2	.30666	2.7040
#1	.00981	.00256	1.0761	7.1617	.00895	50.963	.03834	.00017	41.909	.00368
#2	.00953	.00237	1.0759	7.1753	.01262	51.008	.03758	-.00023	42.091	.00354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09764**	**-.00055**	**51.307**	**-.00443**	**-.00104**	**21.538**	**46.090**	**-.00183**	**.90626**	**-.00017**
Stddev	.00226	.00080	.078	.00033	.00146	.079	.169	.00086	.00003	.00059
%RSD	2.3136	145.26	.15208	7.3808	140.38	.36573	.36573	46.813	.00369	343.84
#1	.09923	-.00111	51.252	-.00420	-.00208	21.482	45.971	-.00244	.90629	-.00059
#2	.09604	.00001	51.363	-.00466	-.00001	21.593	46.209	-.00122	.90624	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10261**	**.00216**	**-.03267**	**.00780**	**.00591**	**.00521**
Stddev	.00052	.00009	.00715	.00005	.00046	.00076
%RSD	.50848	3.9519	21.889	.60487	7.7708	14.550
#1	.10298	.00210	-.02761	.00784	.00624	.00575
#2	.10224	.00222	-.03773	.00777	.00559	.00468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3884.0**	**46644.**	**5542.1**
Stddev	3.9	300.	101.2
%RSD	.10059	.64245	1.8256
#1	3886.7	46856.	5613.7
#2	3881.2	46432.	5470.6

Sample Name: CCVH-1169743 Acquired: 12/13/2011 18:55:10 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**49.139**	**-.00391**	**.00127**	**.00046**	**-.00011**	**.98872**	**.01697**	**-.00078**	**.00094**	**.00028**	**-.00055**	**49.023**
Stddev	.00009	.197	.00146	.00024	.00007	.00008	.00521	.01894	.00004	.00002	.00015	.00034	.335
%RSD	13.023	.40077	37.337	18.744	15.558	71.776	.52662	111.62	4.6361	1.7740	52.210	61.850	.68346
#1	-.00063	49.000	-.00495	.00110	.00041	-.00017	.99241	.03036	-.00075	.00095	.00018	-.00080	48.786
#2	-.00076	49.278	-.00288	.00144	.00051	-.00005	.98504	.00358	-.00080	.00093	.00039	-.00031	49.260
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13042**	**.00322**	**-.00343**	**.00298**	**-.00210**	**243.91**	**.00060**	**.00219**	**-.00100**	**4.9592**	**-.00136**	**.00659**	**.02423**
Stddev	.02834	.00161	.00084	.00014	.00012	.78	.00023	.00022	.00011	.0076	.00233	.00065	.01169
%RSD	21.726	49.949	24.647	4.6260	5.7082	.32073	38.294	10.072	11.441	.15239	171.58	9.7906	48.237
#1	.11038	.00436	-.00403	.00288	-.00219	243.36	.00044	.00204	-.00092	4.9646	-.00300	.00614	.01596
#2	.15046	.00209	-.00283	.00307	-.00202	244.46	.00077	.00235	-.00108	4.9539	.00029	.00705	.03249
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05184**	**.00259**	**.00047**	**4.8565**	**.00070**	**-.00523**	**10.150**	**-.00051**	**.00220**	**-.00920**
Stddev	.02501	.00002	.00005	.0152	.00021	.00103	.081	.00009	.00012	.00380
%RSD	48.237	.88574	11.105	.31388	29.894	19.698	.79880	18.413	5.2801	41.363
#1	.03416	.00261	.00051	4.8673	.00055	-.00596	10.208	-.00044	.00228	-.01189
#2	.06952	.00257	.00044	4.8458	.00084	-.00450	10.093	-.00057	.00211	-.00651
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3943.9**	**46764.**	**5481.8**
Stddev	13.6	78.	27.7
%RSD	.34446	.16620	.50498
#1	3934.3	46709.	5462.2
#2	3953.5	46819.	5501.4

Sample Name: CCV-1169927 Acquired: 12/13/2011 18:57:30 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48822**	**.51703**	**1.0013**	**.49573**	**.49079**	**.49595**	**-.00068**	**4.9528**	**.49668**	**.50450**	**.50328**	**.49491**	**2.4386**
Stddev	.00112	.00616	.0029	.00182	.00156	.00205	.00143	.0217	.00100	.00070	.00094	.00080	.0166
%RSD	.22898	1.1907	.29250	.36761	.31761	.41392	210.40	.43924	.20138	.13798	.18747	.16133	.68006
#1	.48743	.51267	.99928	.49444	.49190	.49740	-.00169	4.9682	.49597	.50401	.50261	.49435	2.4504
#2	.48901	.52138	1.0034	.49702	.48969	.49450	.00033	4.9374	.49739	.50500	.50394	.49547	2.4269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.245**	**.99491**	**19.438**	**.49578**	**.50140**	**5.0537**	**.50367**	**.99307**	**1.0006**	**-.00297**	**.98847**	**.99145**	**4.9414**
Stddev	.028	.00237	.020	.00147	.00043	.0228	.00013	.00004	.0006	.00839	.00151	.00340	.0076
%RSD	.05713	.23840	.10541	.29697	.08663	.45184	.02547	.00381	.05795	282.70	.15255	.34334	.15399
#1	49.265	.99659	19.452	.49682	.50109	5.0698	.50358	.99304	1.0002	.00297	.98740	.99385	4.9468
#2	49.225	.99323	19.423	.49474	.50171	5.0375	.50376	.99309	1.0010	-.00891	.98954	.98904	4.9360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.575**	**1.0044**	**.49617**	**-.00244**	**.49713**	**1.0010**	**-.01507**	**.49202**	**.49434**	**.49381**
Stddev	.016	.0025	.00005	.00300	.00089	.0021	.00578	.00196	.00333	.00300
%RSD	.15399	.24717	.00982	122.58	.17863	.21374	38.349	.39793	.67359	.60693
#1	10.586	1.0061	.49613	-.00033	.49776	.99947	-.01098	.49341	.49669	.49169
#2	10.563	1.0026	.49620	-.00456	.49650	1.0025	-.01915	.49064	.49198	.49593
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4003.2**	**48434.**	**5530.0**
Stddev	6.0	84.	7.4
%RSD	.15049	.17291	.13415
#1	3999.0	48375.	5524.7
#2	4007.5	48493.	5535.2

Sample Name: CCB Acquired: 12/13/2011 18:59:41 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.00137**	**.00080**	**.00047**	**-.00009**	**.00006**	**-.00022**	**.00027**	**.00002**	**.00007**	**.00007**	**.00011**
Stddev	.00039	.00222	.00065	.00021	.00017	.00000	.00015	.00122	.00007	.00018	.00018	.00006
%RSD	79.016	162.48	80.599	43.346	193.59	.40776	67.420	443.86	345.43	274.63	271.12	52.208
#1	-.00077	-.00020	.00126	.00062	.00003	.00006	-.00033	.00114	.00007	.00019	.00020	.00015
#2	-.00022	.00294	.00034	.00033	-.00021	.00006	-.00012	-.00059	-.00003	-.00006	-.00006	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**.10391**	**.00073**	**-.00164**	F **.00303**	**.00012**	W **.11128**	**.00004**	**.00077**	**.00054**	**.00775**	**.00093**
Stddev	.00055	.02096	.00065	.00281	.00002	.00015	.00124	.00003	.00039	.00007	.01263	.00099
%RSD	46.704	20.168	88.576	171.19	.58713	130.64	1.1184	76.360	50.115	12.349	162.90	106.42
#1	.00079	.11873	.00119	-.00363	.00302	.00001	.11040	.00002	.00105	.00049	-.00118	.00023
#2	.00157	.08909	.00027	.00035	.00304	.00023	.11216	.00007	.00050	.00059	.01668	.00162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.00051		.09160					
Low Limit					-.00051		-.09160					

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00434**	**-.00151**	**-.00322**	**-.00049**	**.00005**	**-.00119**	**.00011**	**.00005**	**.02111**	**-.00031**	**.00144**	**.00066**
Stddev	.00227	.00596	.01274	.00014	.00004	.00046	.00007	.00016	.02649	.00009	.00025	.00001
%RSD	52.175	395.50	395.50	28.783	69.868	38.531	64.611	328.09	125.51	28.935	17.449	.99397
#1	.00274	.00271	.00579	-.00039	.00003	-.00086	.00006	.00016	.00237	-.00037	.00126	.00066
#2	.00595	-.00572	-.01223	-.00059	.00008	-.00151	.00016	-.00007	.03984	-.00025	.00162	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3989.9**	**49018.**	**5458.4**
Stddev	.9	20.	5.4
%RSD	.02359	.04094	.09980
#1	3990.6	49004.	5454.6
#2	3989.3	49032.	5462.3

Sample Name: CCVL1171013 Acquired: 12/13/2011 19:02:06 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00907**	**.10741**	**.01582**	**.10462**	**.00986**	**.00102**	**.11228**	**.20461**	**.00511**	**.01060**	**.01039**	**.01502**	**.10278**
Stddev	.00016	.00182	.00118	.00090	.00005	.00001	.00052	.00061	.00006	.00011	.00000	.00028	.00204
%RSD	1.7229	1.6968	7.4653	.86413	.49387	.82669	.45974	.29954	1.2521	1.0386	.04805	1.8934	1.9857
#1	.00896	.10870	.01666	.10526	.00983	.00102	.11265	.20504	.00506	.01068	.01039	.01522	.10133
#2	.00919	.10612	.01499	.10398	.00990	.00101	.11192	.20417	.00515	.01052	.01039	.01481	.10422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1248**	**.01267**	**.20495**	F **.01301**	**.02037**	**1.1333**	**.04153**	**3.1280**	**.00857**	**.00981**	**.00792**	**.01567**	**.51520**
Stddev	.0164	.00002	.00488	.00004	.00003	.0068	.00009	.0073	.00038	.00309	.00080	.00304	.00066
%RSD	.52581	.14188	2.3787	.34221	.14768	.59866	.22327	.23456	4.4550	31.473	10.071	19.383	.12792
#1	3.1132	.01269	.20151	.01298	.02039	1.1285	.04147	3.1332	.00884	.00762	.00849	.01782	.51473
#2	3.1364	.01266	.20840	.01304	.02034	1.1381	.04160	3.1228	.00830	.01199	.00736	.01353	.51566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value				.01000									
Range				30.000%									

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1025**	**.10575**	**.01017**	**.01408**	**.01055**	**.01735**	**.07603**	**.00978**	**.02255**	**.01646**
Stddev	.0014	.00086	.00008	.00130	.00022	.00109	.00095	.00010	.00005	.00081
%RSD	.12792	.80954	.73961	9.2673	2.1193	6.2991	1.2440	1.0002	.23226	4.9345
#1	1.1015	.10635	.01012	.01315	.01071	.01812	.07670	.00972	.02259	.01589
#2	1.1035	.10514	.01023	.01500	.01039	.01658	.07536	.00985	.02252	.01703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4133.5**	**50264.**	**5597.8**
Stddev	4.4	205.	26.0
%RSD	.10633	.40687	.46522
#1	4130.4	50409.	5616.2
#2	4136.6	50120.	5579.4

Sample Name: mb 280-99497/1-a Acquired: 12/13/2011 19:04:29 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99497 SOIL 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00944**	**.00055**	**.00015**	**.00051**	**.00005**	**.00141**	W **.14385**	**.00004**	**.00029**
Stddev	.00065	.00219	.00160	.00003	.00015	.00005	.00237	.00154	.00005	.00019
%RSD	265.48	23.228	289.44	18.326	29.207	97.186	168.62	1.0683	112.91	66.656
#1	.00021	.01099	-.00058	.00017	.00040	.00009	.00309	.14276	.00008	.00042
#2	-.00070	.00789	.00169	.00013	.00061	.00002	-.00027	.14493	.00001	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								.10000		
Low Limit								-.10000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.00075**	**.02353**	**.10055**	**.00215**	**.02209**	F **.05276**	**.00001**	**.36675**	**.00010**
Stddev	.00002	.00007	.00064	.03032	.00138	.00346	.01112	.00003	.00640	.00008
%RSD	2.4985	8.6842	2.7006	30.153	64.167	15.642	21.082	303.80	1.7439	83.241
#1	.00061	.00080	.02398	.07911	.00118	.02454	.06062	-.00001	.37128	.00016
#2	.00063	.00070	.02308	.12199	.00313	.01965	.04489	.00003	.36223	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.01000			
Low Limit							-.01000			

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00497**	**-.00005**	F **.03760**	**-.00031**	**.00206**	F **.03934**	F **.08418**	**.00525**	**.00038**	**.00096**
Stddev	.00021	.00052	.00294	.00025	.00186	.00087	.00187	.00034	.00003	.00139
%RSD	4.2795	982.08	7.8102	82.104	90.315	2.2185	2.2185	6.4239	8.7521	144.09
#1	.00482	-.00042	.03552	-.00049	.00338	.03995	.08550	.00549	.00041	-.00002
#2	.00512	.00032	.03968	-.00013	.00075	.03872	.08286	.00502	.00036	.00194
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			.01000			.01000	.01000			
Low Limit			-.01000			-.01000	-.01000			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00049**	**-.02511**	**-.00006**	**.00339**	**.00149**
Stddev	.00040	.00107	.01037	.00053	.00025	.00158
%RSD	60.061	216.31	41.276	927.41	7.3159	106.25
#1	.00038	-.00026	-.03244	.00032	.00357	.00037
#2	.00094	.00125	-.01778	-.00043	.00322	.00260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4138.7**	**50811.**	**5738.5**
Stddev	19.0	129.	28.7
%RSD	.45829	.25326	.49943
#1	4125.2	50720.	5758.8
#2	4152.1	50902.	5718.3

Sample Name: lcs 280-99497/2-a Acquired: 12/13/2011 19:06:53 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99497 SOIL 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04943**	**1.9815**	**1.0103**	**.98371**	**1.9363**	**.04917**	**2.0695**	**47.590**	**.09953**	**.49274**
Stddev	.00011	.0075	.0006	.00103	.0021	.00005	.0008	.026	.00015	.00057
%RSD	.23017	.37710	.06246	.10461	.10606	.09270	.03753	.05379	.15205	.11613
#1	.04951	1.9868	1.0099	.98299	1.9378	.04921	2.0700	47.608	.09942	.49315
#2	.04935	1.9762	1.0108	.98444	1.9349	.04914	2.0689	47.572	.09963	.49234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20007**	**.24866**	**.96032**	**48.759**	**.98040**	**47.716**	**.49373**	**.99439**	**51.899**	**.49809**
Stddev	.00033	.00036	.00061	.091	.00040	.120	.00226	.00055	.046	.00054
%RSD	.16489	.14387	.06340	.18740	.04089	.25241	.45746	.05498	.08795	.10838
#1	.19984	.24891	.96075	48.823	.98068	47.801	.49533	.99401	51.867	.49770
#2	.20031	.24840	.95989	48.694	.98012	47.631	.49213	.99478	51.932	.49847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.163**	**.49828**	**.03629**	**.48849**	**1.9751**	**1.6870**	F **3.6102**	**1.9798**	**.98617**	**.99877**
Stddev	.008	.00250	.00521	.00015	.0082	.0050	.0108	.0077	.00099	.00379
%RSD	.07781	.50163	14.359	.03107	.41711	.29935	.29935	.39144	.10006	.37993
#1	10.157	.50005	.03998	.48860	1.9809	1.6834	3.6026	1.9743	.98687	1.0015
#2	10.168	.49651	.03261	.48838	1.9693	1.6906	3.6179	1.9853	.98548	.99609
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							14.980			
Low Limit							2.1400			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0040**	**1.9642**	**2.1573**	**.49038**	**.48196**	**.49240**
Stddev	.0018	.0005	.0196	.00053	.00030	.00016
%RSD	.18070	.02727	.90871	.10732	.06275	.03185
#1	1.0053	1.9646	2.1434	.49076	.48217	.49229
#2	1.0027	1.9639	2.1712	.49001	.48174	.49251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3940.5**	**47635.**	**5600.2**
Stddev	.7	30.	21.8
%RSD	.01796	.06235	.38910
#1	3940.0	47656.	5584.8
#2	3941.0	47614.	5615.7

Sample Name: 280-23509-a-1-a Acquired: 12/13/2011 19:09:01 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99497 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02077**	**10.387**	**.01418**	**.09922**	**.70803**	**.00036**	F **.10206**	**60.652**	**.00359**	**.00887**
Stddev	.00057	.010	.00267	.00040	.00228	.00003	.00054	.058	.00007	.00004
%RSD	2.7553	.10069	18.850	.39917	.32154	9.1290	.52511	.09520	2.0645	.48786
#1	.02037	10.394	.01229	.09950	.70642	.00038	.10168	60.611	.00364	.00890
#2	.02118	10.379	.01607	.09894	.70964	.00033	.10244	60.693	.00353	.00884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07466**	**1.6978**	**37.955**	**2.9468**	**.00628**	**7.7065**	**1.0255**	**.02299**	**1.5496**	**.05587**
Stddev	.00042	.0007	.071	.0112	.00003	.0114	.0003	.00042	.0051	.00033
%RSD	.55813	.04277	.18815	.38091	.41380	.14769	.02582	1.8382	.32695	.58262
#1	.07437	1.6973	37.904	2.9547	.00630	7.7146	1.0257	.02269	1.5460	.05564
#2	.07496	1.6983	38.005	2.9388	.00626	7.6985	1.0253	.02329	1.5532	.05610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **45.095**	**.05983**	**30.935**	**.00393**	**.02464**	**1.9395**	**4.1506**	**.25051**	**.41816**	**.00318**
Stddev	.162	.00007	.165	.00054	.00151	.0056	.0119	.00006	.00141	.00155
%RSD	.35975	.11498	.53436	13.804	6.1172	.28656	.28656	.02550	.33687	48.730
#1	44.980	.05978	30.818	.00431	.02357	1.9356	4.1422	.25047	.41716	.00428
#2	45.209	.05988	31.052	.00355	.02570	1.9435	4.1590	.25056	.41915	.00209
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26804**	**-.00078**	W **-.05467**	**.01704**	**1.4496**	**.09335**
Stddev	.00178	.00012	.00188	.00026	.0030	.00141
%RSD	.66363	15.550	3.4329	1.5378	.20813	1.5092
#1	.26930	-.00087	-.05335	.01723	1.4518	.09435
#2	.26678	-.00069	-.05600	.01686	1.4475	.09235
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			45.000			
Low Limit			-.05000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4116.4**	**50350.**	**5820.1**
Stddev	19.5	228.	19.8
%RSD	.47420	.45226	.34052
#1	4130.2	50189.	5834.1
#2	4102.6	50511.	5806.1

Sample Name: 280-23509-a-1-aSD@5 Acquired: 12/13/2011 19:11:17 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99497 SOIL 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00371**	**2.0326**	**.00354**	**.01978**	**.14239**	**.00013**	**.02081**	**12.224**	**.00073**	**.00188**
Stddev	.00002	.0135	.00167	.00027	.00043	.00002	.00168	.016	.00023	.00002
%RSD	.66029	.66426	47.360	1.3806	.30165	16.309	8.0499	.13269	31.023	1.2706
#1	.00369	2.0230	.00235	.01997	.14208	.00014	.02199	12.235	.00057	.00186
#2	.00372	2.0421	.00472	.01958	.14269	.00011	.01963	12.213	.00089	.00189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01553**	**.33814**	**7.6866**	**.61664**	**.00109**	**1.5799**	**.21009**	**.00441**	**.35272**	**.01104**
Stddev	.00016	.00030	.0022	.03123	.00117	.0063	.00009	.00005	.00587	.00007
%RSD	1.0267	.08903	.02848	5.0638	107.13	.40154	.04137	1.0799	1.6648	.66424
#1	.01565	.33793	7.6851	.59456	.00026	1.5754	.21015	.00438	.34857	.01099
#2	.01542	.33836	7.6882	.63872	.00192	1.5844	.21002	.00445	.35688	.01109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **9.1130**	**.01201**	**6.0749**	**-.00197**	**.00780**	**.39702**	**.84963**	**.05126**	**.08399**	**.00149**
Stddev	.0464	.00046	.0259	.00086	.00128	.00197	.00421	.00036	.00015	.00019
%RSD	.50873	3.8667	.42591	43.592	16.438	.49545	.49545	.70605	.18351	12.565
#1	9.0803	.01168	6.0566	-.00136	.00690	.39563	.84666	.05152	.08388	.00136
#2	9.1458	.01233	6.0932	-.00257	.00871	.39842	.85261	.05101	.08410	.00163
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05515**	**-.00082**	**-.02777**	**.00328**	**.29699**	**.01926**
Stddev	.00035	.00004	.02514	.00047	.00078	.00280
%RSD	.64268	4.5706	90.552	14.381	.26376	14.557
#1	.05541	-.00080	-.04555	.00294	.29644	.01728
#2	.05490	-.00085	-.00999	.00361	.29755	.02124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4106.2**	**50643.**	**5742.4**
Stddev	11.5	291.	46.4
%RSD	.28085	.57516	.80852
#1	4114.3	50849.	5709.5
#2	4098.0	50437.	5775.2

Sample Name: 280-23509-a-1-b ms Acquired: 12/13/2011 19:13:37 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99497 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.07338**	**17.772**	**1.0421**	**1.1050**	**2.7948**	k **.05015**	F **2.2284**	**112.33**	k **.10439**	k **.50955**
Stddev	.00016	.088	.0031	.0032	.0013	.00021	.0031	.09	.00050	.00010
%RSD	.21860	.49771	.29956	.29198	.04708	.41859	.13972	.07678	.47527	.02020
#1	k .07349	17.710	1.0399	1.1027	2.7938	k .05000	2.2262	112.27	k .10404	k .50963
#2	k .07326	17.835	1.0443	1.1072	2.7957	k .05030	2.2306	112.39	k .10474	k .50948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28933**	k **2.1206**	k **43.612**	**53.795**	**1.0271**	k **57.074**	k **1.6065**	**1.0167**	**54.422**	**.56272**
Stddev	.00004	.0020	.108	.114	.0020	.194	.0033	.0026	.181	.00039
%RSD	.01378	.09418	.24754	.21136	.19581	.33914	.20536	.25217	.33232	.06968
#1	.28936	k 2.1220	k 43.536	53.875	1.0257	k 57.211	k 1.6089	1.0149	54.550	.56300
#2	.28930	k 2.1191	k 43.688	53.715	1.0286	k 56.937	k 1.6042	1.0185	54.294	.56244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **57.440**	k **.56341**	**34.156**	k **.47102**	k **2.0544**	**3.0085**	**6.4381**	W **2.0678**	**1.4688**	k **.13962**
Stddev	.046	.00248	.138	.00174	.0141	.0217	.0465	.0038	.0001	.00334
%RSD	.07978	.44008	.40351	.36930	.68754	.72271	.72271	.18380	.00996	2.3939
#1	57.408	k .56166	34.059	k .46979	k 2.0444	2.9931	6.4052	2.0705	1.4687	k .14198
#2	57.473	k .56517	34.254	k .47225	k 2.0644	3.0238	6.4710	2.0651	1.4689	k .13725
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit	50.000							2.0000		
Low Limit	-2.0000							-.05000		

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.46898**	k **1.9567**	k **2.0301**	k **.51486**	**2.0637**	k **.02340**
Stddev	.00009	.0005	.0223	.00141	.0046	.00063
%RSD	.01963	.02673	1.0973	.27369	.22142	2.7044
#1	k .46891	k 1.9564	k 2.0143	k .51586	2.0669	k .02295
#2	k .46904	k 1.9571	k 2.0459	k .51387	2.0605	k .02384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3989.6**	**48286.**	**5784.2**
Stddev	1.9	83.	34.6
%RSD	.04865	.17226	.59774
#1	3988.2	48345.	5808.6
#2	3990.9	48227.	5759.7

Sample Name: 280-23509-a-1-c msd Acquired: 12/13/2011 19:15:45 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99497 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07181**	**17.068**	**1.0295**	**1.0963**	**2.7471**	**.05000**	F **2.2150**	**108.89**	**.10414**	**.50483**
Stddev	.00003	.012	.0028	.0002	.0062	.00016	.0052	.34	.00041	.00115
%RSD	.04607	.07286	.27239	.02168	.22388	.31393	.23673	.31330	.39591	.22860
#1	.07184	17.076	1.0275	1.0962	2.7427	.05012	2.2113	108.64	.10385	.50565
#2	.07179	17.059	1.0315	1.0965	2.7514	.04989	2.2188	109.13	.10443	.50401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28002**	**2.0004**	**39.822**	**53.536**	**1.0238**	**56.334**	**1.5338**	**1.0090**	**54.151**	**.55703**
Stddev	.00076	.0024	.172	.016	.0028	.049	.0010	.0008	.198	.00100
%RSD	.27163	.12100	.43180	.03081	.27486	.08682	.06868	.07868	.36627	.17891
#1	.28056	1.9987	39.701	53.525	1.0218	56.368	1.5346	1.0095	54.291	.55773
#2	.27948	2.0021	39.944	53.548	1.0258	56.299	1.5331	1.0084	54.011	.55632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **54.804**	**.54763**	**32.192**	**.47686**	**2.0406**	**3.4023**	**7.2810**	W **2.0093**	**1.4447**	**.07417**
Stddev	.011	.00013	.016	.00207	.0031	.0143	.0306	.0017	.0010	.00057
%RSD	.01998	.02324	.04861	.43472	.15376	.41973	.41973	.08641	.07021	.77082
#1	54.811	.54772	32.203	.47539	2.0428	3.4124	7.3026	2.0106	1.4454	.07458
#2	54.796	.54754	32.181	.47832	2.0383	3.3922	7.2594	2.0081	1.4440	.07377
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit	50.000							2.0000		
Low Limit	-2.0000							-.05000		

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48344**	**1.9454**	**2.0059**	**.51240**	**1.9481**	**.04835**
Stddev	.00101	.0055	.0159	.00043	.0119	.00052
%RSD	.20813	.28252	.79358	.08472	.60946	1.0749
#1	.48273	1.9415	2.0172	.51210	1.9565	.04871
#2	.48415	1.9493	1.9947	.51271	1.9397	.04798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3985.8**	**48432.**	**5808.3**
Stddev	6.9	71.	79.8
%RSD	.17277	.14710	1.3737
#1	3980.9	48381.	5864.7
#2	3990.6	48482.	5751.9

Sample Name: 280-23536-a-1-a Acquired: 12/13/2011 19:17:53 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99497 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00193**	**159.93**	**.07035**	**.07401**	**1.2892**	**.00742**	**.00321**	**76.654**	**.00666**	**.06383**
Stddev	.00001	1.44	.00231	.00016	.0161	.00008	.00447	.749	.00015	.00032
%RSD	.44549	.90294	3.2835	.21930	1.2470	1.0129	139.01	.97733	2.2985	.50287
#1	-.00193	158.91	.07198	.07389	1.2779	.00736	.00005	76.124	.00655	.06360
#2	-.00194	160.95	.06871	.07412	1.3006	.00747	.00637	77.184	.00677	.06406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17001**	**.20917**	**165.48**	**39.745**	**.12883**	**33.603**	**2.7377**	**.00652**	**1.4947**	**.13739**
Stddev	.00022	.00038	1.79	.420	.00165	.017	.0014	.00001	.0226	.00043
%RSD	.13115	.18270	1.0799	1.0561	1.2787	.05132	.05088	.10588	1.5146	.31321
#1	.16986	.20944	164.22	39.448	.12766	33.615	2.7387	.00652	1.4787	.13709
#2	.17017	.20890	166.75	40.042	.12999	33.590	2.7367	.00653	1.5108	.13769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **5.5073**	**.29809**	**2.4758**	**-.00176**	**.00783**	**3.5971**	**7.6978**	**.00994**	**.57147**	**.09678**
Stddev	.0045	.00183	.0107	.00026	.00080	.0019	.0042	.00141	.00601	.00149
%RSD	.08193	.61254	.43385	14.612	10.258	.05427	.05427	14.161	1.0518	1.5394
#1	5.5041	.29680	2.4682	-.00158	.00726	3.5957	7.6948	.00894	.56722	.09572
#2	5.5105	.29938	2.4834	-.00195	.00839	3.5985	7.7007	.01093	.57572	.09783
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4625**	**-.00147**	F **-.25676**	**.33945**	**.99002**	**.09667**
Stddev	.0028	.00005	.01270	.00123	.00367	.00278
%RSD	.19253	3.3186	4.9467	.36164	.37025	2.8774
#1	1.4605	-.00151	-.26574	.34032	.98743	.09470
#2	1.4645	-.00144	-.24778	.33858	.99262	.09864
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			50.000			
Low Limit			-.10000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4475.8**	**53169.**	**6448.4**
Stddev	12.5	355.	43.1
%RSD	.27851	.66795	.66916
#1	4484.7	53420.	6478.9
#2	4467.0	52918.	6417.9

Sample Name: 280-23536-a-2-a Acquired: 12/13/2011 19:20:13 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99497 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00666**	**100.73**	**1.0277**	**.07283**	**1.6701**	**.00674**	**.02099**	**55.047**	**.91158**	**.05533**
Stddev	.00060	.51	.0063	.00040	.0086	.00001	.00069	.329	.00076	.00024
%RSD	9.0469	.50800	.61393	.54656	.51643	.13242	3.2930	.59702	.08347	.43301
#1	.00709	100.36	1.0321	.07311	1.6640	.00675	.02147	54.815	.91104	.05516
#2	.00623	101.09	1.0232	.07255	1.6762	.00673	.02050	55.280	.91212	.05550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16966**	**.56085**	**141.97**	**32.576**	**.08671**	**27.468**	**4.2764**	**.02434**	**1.7633**	**.12006**
Stddev	.00030	.00062	.96	.157	.00155	.066	.0026	.00020	.0096	.00070
%RSD	.17683	.10970	.67625	.48195	1.7833	.24092	.06083	.80366	.54237	.58685
#1	.16944	.56042	141.29	32.465	.08780	27.515	4.2746	.02448	1.7565	.12056
#2	.16987	.56129	142.65	32.687	.08562	27.422	4.2783	.02420	1.7700	.11956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **7.1447**	**1.9870**	**5.1810**	**-.00013**	**.00696**	**2.6348**	**5.6386**	**.02099**	**.76393**	**.10395**
Stddev	.0082	.0028	.0117	.00080	.00242	.0449	.0961	.00011	.00384	.00035
%RSD	.11497	.14225	.22595	622.08	34.732	1.7038	1.7038	.52063	.50235	.33484
#1	7.1389	1.9850	5.1727	.00044	.00525	2.6031	5.5706	.02107	.76122	.10419
#2	7.1505	1.9890	5.1893	-.00070	.00867	2.6666	5.7065	.02091	.76665	.10370
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.2970**	**.02055**	F **-.28682**	**.21533**	**4.7955**	**.06489**
Stddev	.0002	.00120	.00002	.00011	.0129	.00014
%RSD	.00896	5.8397	.00600	.05288	.26954	.21694
#1	2.2971	.01971	-.28681	.21525	4.8047	.06499
#2	2.2968	.02140	-.28683	.21541	4.7864	.06479
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			50.000			
Low Limit			-.10000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4576.4**	**54626.**	**6520.0**
Stddev	7.9	128.	30.9
%RSD	.17305	.23488	.47376
#1	4582.0	54535.	6541.9
#2	4570.8	54717.	6498.2

Sample Name: CCVH-1169743 Acquired: 12/13/2011 19:22:32 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**49.507**	**-.00097**	**.00235**	**.00312**	**-.00014**	**.99859**	**.47398**	**-.00077**	**.00091**	**.00044**	**-.00078**	**49.681**
Stddev	.00039	.066	.00116	.00040	.00009	.00008	.00294	.00503	.00005	.00019	.00001	.00017	.197
%RSD	109.44	.13352	119.34	17.109	2.7551	59.461	.29470	1.0604	6.7726	20.468	3.3765	21.594	.39648
#1	-.00008	49.460	-.00180	.00206	.00306	-.00008	1.0007	.47754	-.00073	.00104	.00045	-.00090	49.542
#2	-.00064	49.554	-.00015	.00263	.00318	-.00019	.99651	.47043	-.00080	.00078	.00042	-.00066	49.821
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14961**	**.00328**	**.17078**	**.00585**	**-.00192**	**247.18**	**.00095**	**.00482**	**-.00052**	**5.0422**	**-.00215**	**.00458**	**.04428**
Stddev	.01791	.00195	.00251	.00002	.00010	.52	.00024	.00051	.00014	.0136	.00131	.00084	.00996
%RSD	11.974	59.247	1.4691	.29092	5.1063	.20876	24.974	10.532	26.446	.26920	60.741	18.400	22.498
#1	.16228	.00466	.17256	.00583	-.00185	246.82	.00111	.00518	-.00043	5.0518	-.00307	.00518	.03724
#2	.13695	.00191	.16901	.00586	-.00199	247.55	.00078	.00446	-.00062	5.0326	-.00123	.00399	.05133
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09477**	**.00283**	**.00298**	**4.9279**	**.00219**	**-.00337**	**10.348**	**.00016**	**.01337**	**-.00973**
Stddev	.02132	.00048	.00004	.0060	.00026	.00073	.005	.00037	.00046	.00165
%RSD	22.498	16.887	1.3131	.12134	11.702	21.574	.05189	225.48	3.4058	16.956
#1	.07969	.00317	.00301	4.9237	.00201	-.00389	10.344	.00043	.01305	-.00856
#2	.10985	.00250	.00295	4.9322	.00237	-.00286	10.351	-.00010	.01370	-.01089
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3944.2**	**47296.**	**5525.0**
Stddev	6.2	12.	10.0
%RSD	.15717	.02590	.18115
#1	3948.5	47304.	5532.1
#2	3939.8	47287.	5518.0

Sample Name: CCV-1169927 Acquired: 12/13/2011 19:24:51 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49200**	**.51139**	**.99739**	**.49944**	**.49685**	**.49699**	**.00172**	**4.9511**	**.49714**	**.50382**	**.50350**	**.50045**	**2.4465**
Stddev	.00128	.00027	.00296	.00000	.00115	.00181	.00060	.0155	.00096	.00177	.00052	.00141	.0130
%RSD	.26012	.05371	.29704	.00097	.23244	.36438	35.184	.31366	.19258	.35079	.10364	.28166	.53166
#1	.49290	.51120	.99529	.49945	.49604	.49827	.00214	4.9620	.49781	.50257	.50313	.50145	2.4557
#2	.49109	.51159	.99948	.49944	.49767	.49571	.00129	4.9401	.49646	.50507	.50387	.49946	2.4373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.368**	**1.0038**	**19.426**	**.49596**	**.50129**	**5.0399**	**.50329**	**.99006**	**1.0013**	**-.00217**	**.99112**	**.99665**	**4.9159**
Stddev	.009	.0009	.014	.00001	.00063	.0034	.00024	.00346	.0004	.00184	.00246	.00273	.0208
%RSD	.01923	.08541	.07393	.00114	.12575	.06643	.04812	.34908	.03503	85.034	.24823	.27393	.42201
#1	49.375	1.0032	19.416	.49597	.50174	5.0422	.50312	.98761	1.0016	-.00086	.99286	.99858	4.9306
#2	49.361	1.0044	19.436	.49596	.50085	5.0375	.50346	.99250	1.0011	-.00347	.98938	.99472	4.9013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.520**	**1.0004**	**.49847**	**-.00258**	**.49568**	**1.0061**	**-.00432**	**.49372**	**.48795**	**.49365**
Stddev	.044	.0002	.00027	.00073	.00107	.0015	.00115	.00086	.00304	.00396
%RSD	.42201	.01612	.05497	28.221	.21538	.14981	26.659	.17436	.62249	.80135
#1	10.551	1.0003	.49827	-.00310	.49492	1.0071	-.00513	.49432	.49010	.49645
#2	10.489	1.0005	.49866	-.00207	.49643	1.0050	-.00350	.49311	.48580	.49085
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4078.2**	**49388.**	**5700.7**
Stddev	12.1	127.	25.5
%RSD	.29597	.25673	.44656
#1	4086.7	49478.	5682.7
#2	4069.6	49299.	5718.7

Sample Name: CCB Acquired: 12/13/2011 19:27:02 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00275**	**.00003**	**-.00013**	**.00000**	**.00005**	**-.00104**	**.00033**	**-.00001**	**.00024**	**.00004**	**.00023**	**.00341**
Stddev	.00034	.00037	.00158	.00030	.0000	.00001	.00145	.00030	.00010	.00014	.00005	.00041	.00083
%RSD	321.55	13.564	5271.2	235.91	126.56	23.526	139.22	88.440	1190.7	58.449	122.47	179.62	24.431
#1	-.00034	.00302	.00115	.00009	.00000	.00004	-.00207	.00013	-.00008	.00033	.00001	.00052	.00282
#2	.00013	.00249	-.00109	-.00034	-.00001	.00006	-.00002	.00054	.00007	.00014	.00007	-.00006	.00400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10301**	**.00109**	**.00497**	F **.00149**	**.00034**	**.05762**	**-.00003**	**.00065**	**.00040**	**.01003**	**-.00016**	**.00208**	**-.00040**
Stddev	.02131	.00026	.00213	.00011	.00021	.00571	.00014	.00098	.00129	.00459	.00055	.00602	.00537
%RSD	20.692	23.807	42.895	7.1447	61.372	9.9039	409.25	150.80	325.55	45.710	335.33	288.93	1348.4
#1	.11808	.00091	.00647	.00156	.00019	.05358	.00007	.00135	-.00052	.00679	.00023	-.00217	.00340
#2	.08793	.00128	.00346	.00141	.00049	.06165	-.00013	-.00004	.00131	.01327	-.00055	.00634	-.00420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00051									
Low Limit				-.00051									

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**-.00049**	**.00004**	**.00104**	**.00042**	**-.00052**	**-.02712**	**-.00006**	**.00146**	**.00152**
Stddev	.01150	.00001	.00002	.00110	.00013	.00016	.00551	.00014	.00015	.00071
%RSD	1348.4	2.3409	44.591	105.92	29.752	31.366	20.333	237.73	10.172	46.828
#1	.00728	-.00049	.00003	.00182	.00033	-.00063	-.03102	.00004	.00135	.00202
#2	-.00898	-.00048	.00005	.00026	.00051	-.00040	-.02322	-.00016	.00156	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4028.1**	**49250.**	**5507.2**
Stddev	3.8	239.	.3
%RSD	.09314	.48511	.00557
#1	4025.5	49419.	5507.4
#2	4030.8	49081.	5507.0

Sample Name: CCVL1171013 Acquired: 12/13/2011 19:29:28 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01037**	**.10775**	**.01260**	**.10495**	**.01027**	**.00103**	**.11084**	**.20666**	**.00519**	**.01078**	**.01039**	**.01567**	**.10369**
Stddev	.00029	.00081	.00043	.00044	.00017	.00003	.00116	.00057	.00004	.00003	.00008	.00020	.00100
%RSD	2.8154	.75490	3.4270	.41507	1.6411	3.2990	1.0475	.27593	.72420	.29981	.75287	1.2804	.96177
#1	.01016	.10718	.01229	.10464	.01015	.00101	.11002	.20626	.00516	.01075	.01044	.01581	.10440
#2	.01057	.10833	.01290	.10526	.01039	.00106	.11166	.20706	.00521	.01080	.01033	.01553	.10299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1701**	**.01236**	**.20947**	**.01193**	**.02043**	**1.1088**	**.04140**	**3.1006**	**.01013**	**-.00073**	**.00883**	**.01266**	**.49975**
Stddev	.0479	.00120	.00009	.00004	.00024	.0059	.00022	.0026	.00139	.00844	.00005	.00356	.01432
%RSD	1.5105	9.7387	.04448	.32314	1.1953	.53594	.53682	.08209	13.769	1160.1	.55501	28.115	2.8655
#1	3.1363	.01321	.20953	.01195	.02060	1.1046	.04156	3.0988	.00914	-.00670	.00887	.01518	.48963
#2	3.2040	.01151	.20940	.01190	.02025	1.1130	.04125	3.1024	.01112	.00524	.00880	.01015	.50988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0695**	**.10346**	**.01031**	**.01575**	**.01047**	**.01818**	F **.03820**	**.00973**	**.02273**	**.01693**
Stddev	.0307	.00093	.00001	.00047	.00001	.00065	.00403	.00009	.00020	.00064
%RSD	2.8655	.89835	.10871	2.9617	.13464	3.5819	10.555	.88310	.89899	3.7988
#1	1.0478	.10280	.01032	.01542	.01048	.01772	.03535	.00979	.02258	.01738
#2	1.0911	.10411	.01031	.01608	.01046	.01864	.04106	.00967	.02287	.01647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value							.06000			
Range							-30.000%			

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4178.6**	**50441.**	**5633.6**
Stddev	12.4	118.	76.7
%RSD	.29601	.23433	1.3621
#1	4169.8	50524.	5687.9
#2	4187.3	50357.	5579.4

Sample Name: mb 280-99569/1-a Acquired: 12/13/2011 19:31:51 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00121**	**.00030**	**-.00046**	**-.00010**	**.00000**	**.00173**	**.00523**	**.00003**	**.00000**
Stddev	.00050	.00130	.00149	.00024	.00023	.00010	.00152	.00081	.00014	.0001
%RSD	167.24	107.71	490.65	51.658	225.24	2023.7	87.751	15.519	503.99	4841.1
#1	.00065	.00213	.00136	-.00029	.00006	-.00006	.00066	.00580	.00013	.00009
#2	-.00005	.00029	-.00075	-.00063	-.00027	.00007	.00280	.00466	-.00007	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00010**	**.00345**	**.05088**	**-.00158**	**-.00107**	**.00110**	**.00000**	**.03824**	**-.00015**
Stddev	.00012	.00001	.00019	.02441	.00224	.00070	.00001	.0002	.00040	.00025
%RSD	124.66	7.6446	5.6014	47.975	141.36	65.965	.51801	14424.	1.0479	161.57
#1	.00019	.00009	.00331	.03362	-.00317	-.00057	.00109	-.00016	.03853	.00002
#2	.00001	.00010	.00358	.06815	.00000	-.00156	.00110	.00016	.03796	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.00086**	W **.00594**	**-.00179**	**.00330**	**-.00398**	**-.00852**	**.00018**	**.00005**	**-.00103**
Stddev	.00086	.00100	.00379	.00069	.00091	.00229	.00490	.00051	.00004	.00081
%RSD	114.65	116.24	63.702	38.693	27.652	57.530	57.530	282.98	77.265	78.689
#1	-.00014	.00015	.00862	-.00228	.00394	-.00236	-.00505	.00054	.00008	-.00046
#2	-.00135	.00157	.00327	-.00130	.00265	-.00560	-.01199	-.00018	.00002	-.00160
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00500							
Low Limit			-.00500							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00099**	**-.00168**	**-.00047**	**.00251**	**.00217**
Stddev	.00005	.00062	.02955	.00001	.00004	.00049
%RSD	20.141	63.199	1758.1	1.4495	1.7196	22.319
#1	.00029	-.00055	-.02258	-.00048	.00248	.00252
#2	.00022	-.00143	.01922	-.00047	.00254	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4129.0**	**50549.**	**5655.4**
Stddev	2.8	327.	13.9
%RSD	.06725	.64709	.24543
#1	4131.0	50780.	5665.2
#2	4127.1	50317.	5645.6

Sample Name: lcs 280-99569/2-a Acquired: 12/13/2011 19:34:16 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04899**	**1.9409**	**.99457**	**.98958**	**1.9217**	**.04799**	**2.0460**	**46.843**	**.09867**	**.48402**
Stddev	.00002	.0253	.01909	.01564	.0083	.00018	.0254	.224	.00172	.00730
%RSD	.03676	1.3053	1.9195	1.5807	.43150	.36720	1.2429	.47724	1.7386	1.5087
#1	.04901	1.9588	1.0081	1.0006	1.9276	.04811	2.0640	47.001	.09988	.48918
#2	.04898	1.9229	.98107	.97852	1.9158	.04786	2.0280	46.685	.09746	.47885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19677**	**.24196**	**.94442**	**47.923**	**.96730**	**47.273**	**.48319**	**.98817**	**50.321**	**.49124**
Stddev	.00328	.00110	.00081	.262	.00181	.015	.00106	.01376	.293	.00675
%RSD	1.6675	.45645	.08587	.54734	.18712	.03079	.22015	1.3927	.58247	1.3751
#1	.19909	.24274	.94385	48.108	.96858	47.284	.48394	.99790	50.528	.49601
#2	.19445	.24118	.94500	47.737	.96602	47.263	.48244	.97844	50.114	.48646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9652**	**.49333**	**-.00660**	**.49055**	**1.9521**	**9.5501**	F **20.437**	**1.9645**	**.97235**	**.99005**
Stddev	.1534	.00757	.00207	.00389	.0276	.0068	.015	.0357	.00522	.00805
%RSD	1.5392	1.5346	31.381	.79200	1.4162	.07109	.07109	1.8169	.53648	.81268
#1	10.074	.49869	-.00513	.49330	1.9716	9.5453	20.427	1.9897	.97604	.99574
#2	9.8567	.48798	-.00806	.48781	1.9325	9.5549	20.447	1.9392	.96866	.98436
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							24.610			
Low Limit							20.100			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98652**	**1.9455**	**2.1094**	**.48308**	**.47766**	**.48384**
Stddev	.00419	.0293	.0098	.00116	.00132	.00593
%RSD	.42475	1.5075	.46315	.23912	.27710	1.2264
#1	.98948	1.9663	2.1163	.48390	.47672	.48803
#2	.98355	1.9248	2.1025	.48226	.47859	.47964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3906.1**	**47402.**	**5636.0**
Stddev	46.0	167.	11.4
%RSD	1.1788	.35198	.20192
#1	3873.5	47520.	5628.0
#2	3938.7	47284.	5644.1

Sample Name: 280-23636-I-1-a Acquired: 12/13/2011 19:36:25 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00114**	**.01947**	**.00427**	**2.2697**	**.01862**	**.00001**	**-.00025**	**395.60**	**.00078**	**.00084**
Stddev	.00063	.00030	.00036	.0074	.00056	.00002	.00002	5.86	.00015	.00002
%RSD	55.145	1.5264	8.3220	.32551	3.0015	185.75	7.4911	1.4802	19.187	2.8251
#1	.00158	.01968	.00452	2.2645	.01902	.00002	-.00026	399.74	.00089	.00083
#2	.00070	.01926	.00402	2.2749	.01822	.00000	-.00024	391.46	.00068	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08188**	**.02354**	**.96034**	**52.780**	**.50926**	W **991.38**	**.00666**	**.02139**	W **3239.3**	**.06063**
Stddev	.00039	.00011	.00463	.050	.00064	3.16	.00004	.00023	2.8	.00072
%RSD	.47359	.48501	.48170	.09503	.12523	.31842	.64315	1.0637	.08705	1.1921
#1	.08215	.02362	.96361	52.745	.50881	993.61	.00663	.02155	3237.3	.06114
#2	.08161	.02346	.95706	52.816	.50971	989.14	.00670	.02123	3241.3	.06012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						500.00			500.00	
Low Limit						-.10000			10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11677**	**.00027**	F **2473.2**	**-.00586**	**.30675**	**14.302**	**30.607**	**-.00186**	**4.6016**	**-.00635**
Stddev	.00012	.00086	6.3	.00090	.00244	.007	.016	.00057	.0423	.00033
%RSD	.09905	323.07	.25495	15.411	.79423	.05110	.05110	30.715	.91957	5.2425
#1	.11685	-.00034	2468.8	-.00649	.30503	14.307	30.618	-.00145	4.6316	-.00612
#2	.11669	.00087	2477.7	-.00522	.30848	14.297	30.595	-.00226	4.5717	-.00659
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			200.00							
Low Limit			-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00507**	**.00081**	**-.00464**	**.00705**	**.15820**	**.00201**
Stddev	.00028	.00150	.00239	.00070	.00053	.00061
%RSD	5.4616	184.73	51.520	9.8974	.33645	30.328
#1	.00488	.00187	-.00295	.00754	.15782	.00158
#2	.00527	-.00025	-.00632	.00655	.15858	.00244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3185.7**	**37156.**	**5195.6**
Stddev	9.1	107.	25.0
%RSD	.28648	.28858	.48025
#1	3192.2	37232.	5178.0
#2	3179.3	37080.	5213.3

Sample Name: 280-23636-I-1-aSD@5 Acquired: 12/13/2011 19:39:07 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.03462**	**.00116**	**.48387**	**.00385**	**.00002**	**-.00156**	**88.451**	**.00046**	**.00011**
Stddev	.00026	.00005	.00297	.00198	.00011	.00001	.00130	.500	.00000	.00003
%RSD	958.85	.15737	256.00	.40920	2.9034	58.395	83.569	.56507	.81016	24.269
#1	.00016	-.03458	-.00094	.48527	.00377	.00001	-.00064	88.804	.00045	.00009
#2	-.00021	-.03466	.00326	.48247	.00393	.00003	-.00248	88.098	.00046	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01765**	**.00489**	**.21719**	**10.797**	**.10073**	**213.87**	**.00197**	**.00433**	W **672.81**	**.01335**
Stddev	.00023	.00024	.00142	.096	.00111	.31	.00010	.00023	1.87	.00012
%RSD	1.2831	4.9055	.65609	.88684	1.1035	.14581	4.8863	5.4127	.27758	.88628
#1	.01781	.00506	.21820	10.864	.10152	213.65	.00204	.00449	674.13	.01343
#2	.01749	.00472	.21619	10.729	.09995	214.09	.00190	.00416	671.49	.01326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01620**	**-.00014**	F **696.15**	**-.00127**	**.05221**	**2.9779**	**6.3728**	**-.00153**	**.97681**	**-.00107**
Stddev	.00097	.00020	.64	.00138	.00296	.0399	.0854	.00026	.00390	.00075
%RSD	5.9684	145.65	.09249	108.70	5.6631	1.3400	1.3400	16.941	.39948	70.587
#1	.01689	.00000	696.61	-.00225	.05012	3.0061	6.4331	-.00171	.97957	-.00160
#2	.01552	-.00028	695.70	-.00029	.05430	2.9497	6.3124	-.00134	.97405	-.00053
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			200.00							
Low Limit			-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00142**	**.00111**	**-.02276**	**.00169**	**.03668**	**.00172**
Stddev	.00048	.00043	.01879	.00039	.00057	.00182
%RSD	33.634	38.619	82.576	22.812	1.5552	105.81
#1	.00176	.00081	-.00947	.00142	.03708	.00301
#2	.00108	.00141	-.03605	.00197	.03627	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3690.0**	**43482.**	**5518.0**
Stddev	.2	45.	39.9
%RSD	.00659	.10297	.72368
#1	3689.9	43513.	5489.7
#2	3690.2	43450.	5546.2

Sample Name: 280-23636-I-1-b ms Acquired: 12/13/2011 19:41:40 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288
Line	328.068 {103}	167.079 {502}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05768**	**1.7323**	W **2.7538**	**1.0684**	**3.1803**	**1.9029**	**.04517**	F **2.0875**	**434.62**	**.10364**
Stddev	.00059	.0020	.0034	.0062	.0015	.0098	.00026	.0038	1.27	.00057
%RSD	1.0169	.11728	.12486	.58454	.04826	.51761	.57571	.18243	.29321	.55085
#1	.05726	1.7309	2.7563	1.0728	3.1792	1.9099	.04535	2.0902	435.52	.10404
#2	.05809	1.7337	2.7514	1.0639	3.1814	1.8960	.04498	2.0848	433.72	.10323
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			500.00					.10000		
Low Limit			3.2000					-.10000		

Elem	Co2286	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	228.616 {447}	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43854**	**.26729**	**.27395**	**1.8276**	W **102.30**	**1.5443**	W **1010.5**	**.46310**	**.95401**	W **3297.8**
Stddev	.00045	.00038	.00026	.0079	.16	.0049	2.5	.00028	.00165	5.7
%RSD	.10313	.14159	.09533	.43168	.15280	.31748	.25196	.06067	.17294	.17280
#1	.43886	.26755	.27377	1.8332	102.41	1.5478	1008.7	.46290	.95518	3301.8
#2	.43822	.26702	.27414	1.8220	102.19	1.5409	1012.3	.46330	.95284	3293.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn
High Limit					100.00		500.00			500.00
Low Limit					-.50000		-.10000			10.000

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49907**	W **11.005**	**.41977**	F **2453.2**	**.50485**	**2.6437**	**23.683**	**50.682**	**1.7328**	W **5.5362**
Stddev	.00070	.005	.00277	.8	.00235	.0000	.093	.198	.0002	.0246
%RSD	.13995	.04836	.65938	.03436	.46507	.00029	.39093	.39093	.01340	.44447
#1	.49956	11.002	.42173	2452.6	.50319	2.6437	23.748	50.822	1.7327	5.5536
#2	.49857	11.009	.41781	2453.8	.50651	2.6437	23.617	50.541	1.7330	5.5188
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit		2.0000		200.00						5.0000
Low Limit		-1.0000		-.20000						-.01000

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	283.730 {119}	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97757**	**.97663**	**1.5345**	**1.9571**	**.48213**	**.59039**	**.47465**
Stddev	.00109	.00147	.0030	.0132	.00035	.00399	.00194
%RSD	.11189	.15033	.19330	.67212	.07247	.67580	.40805
#1	.97834	.97560	1.5366	1.9478	.48238	.59321	.47602
#2	.97679	.97767	1.5324	1.9664	.48188	.58756	.47328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3200.2**	**37754.**	**5277.7**
Stddev	6.3	101.	28.4
%RSD	.19772	.26664	.53814
#1	3195.8	37826.	5257.6
#2	3204.7	37683.	5297.8

Sample Name: 280-23636-I-1-c msd Acquired: 12/13/2011 19:44:10 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288
Line	328.068 {103}	167.079 {502}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05819**	**1.7692**	W **2.7719**	**1.0839**	**3.2133**	**1.9274**	**.04545**	F **2.1188**	**439.85**	**.10506**
Stddev	.00102	.0052	.0302	.0019	.0007	.0097	.00039	.0050	.61	.00014
%RSD	1.7467	.29170	1.0911	.17026	.02155	.50355	.85489	.23396	.13960	.13551
#1	.05747	1.7729	2.7932	1.0826	3.2138	1.9343	.04573	2.1224	440.28	.10516
#2	.05891	1.7656	2.7505	1.0852	3.2128	1.9206	.04518	2.1153	439.41	.10496
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			500.00					.10000		
Low Limit			3.2000					-.10000		

Elem	Co2286	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	228.616 {447}	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44567**	**.26981**	**.27827**	**1.8457**	W **102.88**	**1.5537**	W **1005.3**	**.46959**	**.96298**	W **3305.0**
Stddev	.00029	.00073	.00413	.0181	.57	.0102	5.5	.00512	.00143	19.2
%RSD	.06514	.26948	1.4828	.98224	.55085	.65677	.54631	1.0907	.14881	.58095
#1	.44587	.26930	.27535	1.8585	103.28	1.5609	1001.4	.46597	.96400	3318.5
#2	.44546	.27032	.28119	1.8328	102.48	1.5465	1009.2	.47321	.96197	3291.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn
High Limit					100.00		500.00			500.00
Low Limit					-.50000		-.10000			10.000

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50490**	W **11.171**	**.42474**	F **2481.8**	**.50821**	**2.6892**	**23.744**	**50.811**	**1.7491**	W **5.5462**
Stddev	.00047	.005	.00098	1.9	.00085	.0071	.224	.478	.0003	.0573
%RSD	.09293	.04320	.23014	.07669	.16695	.26240	.94159	.94159	.01734	1.0322
#1	.50524	11.167	.42405	2483.1	.50761	2.6842	23.902	51.150	1.7493	5.5866
#2	.50457	11.174	.42543	2480.5	.50881	2.6942	23.585	50.473	1.7489	5.5057
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit		2.0000		200.00						5.0000
Low Limit		-1.0000		-.20000						-.01000

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	283.730 {119}	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98955**	**.97807**	**1.5569**	**1.9755**	**.48849**	**.60126**	**.47856**
Stddev	.01652	.01056	.0002	.0163	.00579	.00111	.00314
%RSD	1.6693	1.0800	.01524	.82299	1.1848	.18410	.65563
#1	.97787	.97060	1.5567	1.9640	.48440	.60048	.48078
#2	1.0012	.98554	1.5571	1.9870	.49258	.60204	.47634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3194.3**	**37752.**	**5301.4**
Stddev	.2	225.	26.0
%RSD	.00512	.59662	.49087
#1	3194.5	37911.	5283.0
#2	3194.2	37593.	5319.8

Sample Name: 280-23654-k-1-a Acquired: 12/13/2011 19:46:40 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	W **-.07654**	**.00211**	**3.8235**	**.02205**	**.00003**	**.00178**	**306.62**	**.00086**	**-.00046**
Stddev	.00120	.00134	.00061	.0108	.00001	.00001	.00071	1.66	.00002	.00012
%RSD	1597.3	1.7537	28.901	.28272	.05706	21.988	39.636	.54005	2.7498	24.987
#1	-.00092	-.07559	.00255	3.8158	.02206	.00003	.00128	305.45	.00085	-.00038
#2	.00077	-.07749	.00168	3.8311	.02204	.00002	.00228	307.79	.00088	-.00055
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2.5000								
Low Limit		-.05000								

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00470**	**.00687**	**.03929**	**34.916**	**.25636**	W **1489.5**	**.00165**	**.00584**	W **2636.9**	**.03720**
Stddev	.00005	.00003	.00054	.008	.00100	16.9	.00007	.00014	3.1	.00020
%RSD	1.0733	.43910	1.3812	.02325	.39082	1.1333	4.2114	2.3199	.11858	.53056
#1	.00467	.00685	.03890	34.910	.25707	1501.5	.00170	.00593	2639.1	.03734
#2	.00474	.00689	.03967	34.922	.25565	1477.6	.00161	.00574	2634.7	.03706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						500.00			500.00	
Low Limit						-.10000			10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06410**	**-.00013**	F **2372.7**	**-.00447**	**.34638**	**15.436**	**33.033**	**-.00256**	**4.3202**	W **-.01028**
Stddev	.00226	.00058	4.7	.00004	.00382	.034	.073	.00082	.0400	.00065
%RSD	3.5297	441.14	.19887	.91163	1.1029	.22194	.22194	32.078	.92673	6.3572
#1	.06250	-.00055	2369.3	-.00444	.34368	15.460	33.085	-.00198	4.3485	-.01074
#2	.06570	.00028	2376.0	-.00450	.34908	15.412	32.982	-.00314	4.2918	-.00981
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit			200.00							45.000
Low Limit			-.20000							-.01000

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00167**	**.00033**	**.04564**	**.00851**	**.16180**	**.00155**
Stddev	.00024	.00036	.01170	.00058	.00066	.00073
%RSD	14.472	108.37	25.625	6.8462	.41069	47.284
#1	-.00150	.00059	.05391	.00893	.16133	.00103
#2	-.00184	.00008	.03737	.00810	.16227	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3198.6**	**37771.**	**5306.8**
Stddev	16.7	123.	40.9
%RSD	.52336	.32505	.77054
#1	3210.5	37684.	5277.9
#2	3186.8	37858.	5335.8

Sample Name: CCVH-1169743 Acquired: 12/13/2011 19:49:25 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**49.088**	**-.00152**	**.00864**	**.00035**	**-.00011**	**.98387**	**.01992**	**-.00074**	**.00080**	**.00028**	**-.00098**	**48.970**
Stddev	.00003	.082	.00249	.00077	.00005	.00007	.00126	.00237	.00004	.00023	.00008	.00031	.260
%RSD	4.3123	.16688	164.05	8.8775	15.155	61.262	.12793	11.900	4.8413	28.995	29.508	31.367	.53173
#1	-.00059	49.030	-.00328	.00918	.00039	-.00015	.98476	.02160	-.00071	.00064	.00023	-.00119	48.786
#2	-.00063	49.146	.00024	.00810	.00031	-.00006	.98298	.01825	-.00077	.00097	.00034	-.00076	49.155
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17427**	**.00166**	**.13087**	**-.00146**	**-.00176**	**244.25**	**.00065**	**.00201**	**-.00132**	F **5.5262**	**-.00215**	**.00580**	**.01755**
Stddev	.05377	.00111	.12787	.00000	.00014	.13	.00001	.00095	.00050	.0485	.00005	.00015	.00704
%RSD	30.855	66.990	97.711	.18899	7.8909	.05218	1.8656	47.587	37.948	.87803	2.3629	2.5349	40.102
#1	.21229	.00245	.04045	-.00145	-.00166	244.16	.00064	.00268	-.00167	5.5605	-.00211	.00570	.01257
#2	.13625	.00088	.22129	-.00146	-.00186	244.34	.00066	.00133	-.00096	5.4919	-.00219	.00591	.02253
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Fail	None	None	None
Value										5.0000			
Range										10.000%			

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03756**	**.00212**	**.00059**	**4.8353**	**.00136**	**-.00442**	**10.080**	**-.00033**	**.00173**	**-.01332**
Stddev	.01506	.00046	.00010	.0118	.00018	.00036	.023	.00034	.00002	.00076
%RSD	40.102	21.855	17.233	.24459	13.113	8.0825	.22732	104.89	1.4372	5.6939
#1	.02691	.00179	.00066	4.8270	.00124	-.00417	10.097	-.00008	.00171	-.01279
#2	.04821	.00245	.00052	4.8437	.00149	-.00468	10.064	-.00057	.00175	-.01386
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3983.5**	**47435.**	**5617.6**
Stddev	1.9	106.	21.3
%RSD	.04844	.22317	.37934
#1	3982.1	47510.	5632.7
#2	3984.9	47360.	5602.5

Sample Name: CCV-1169927 Acquired: 12/13/2011 19:51:46 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48851**	**.50972**	**.99688**	**.50102**	**.49098**	**.49653**	**.00070**	**4.9664**	**.49783**	**.50433**	**.50402**	**.49501**	**2.4346**
Stddev	.00157	.00479	.00545	.00121	.00158	.00141	.00284	.0141	.00021	.00015	.00004	.00055	.0030
%RSD	.32219	.94043	.54634	.24116	.32223	.28421	406.20	.28379	.04163	.02878	.00747	.11198	.12251
#1	.48963	.51310	1.0007	.50188	.48986	.49753	-.00131	4.9764	.49769	.50443	.50405	.49462	2.4325
#2	.48740	.50633	.99302	.50017	.49210	.49554	.00271	4.9565	.49798	.50422	.50399	.49541	2.4367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.571**	**1.0024**	**19.575**	**.49423**	**.50010**	**5.2152**	**.50430**	**.98813**	**.99907**	**.38755**	**.99217**	**.98473**	**4.8910**
Stddev	.019	.0023	.072	.00236	.00051	.0075	.00079	.00024	.00240	.01798	.00050	.00516	.0403
%RSD	.03821	.22651	.36574	.47823	.10111	.14459	.15725	.02393	.24022	4.6386	.05029	.52440	.82415
#1	49.584	1.0041	19.626	.49590	.49974	5.2206	.50486	.98830	1.0008	.40026	.99252	.98108	4.8625
#2	49.557	1.0008	19.525	.49256	.50046	5.2099	.50374	.98797	.99737	.37484	.99182	.98838	4.9195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.467**	**.99941**	**.50051**	**-.00198**	**.49743**	**1.0077**	**-.02095**	**.49275**	**.49467**	**.49077**
Stddev	.086	.00149	.00047	.00131	.00049	.0015	.01308	.00248	.00293	.00010
%RSD	.82415	.14949	.09324	65.808	.09814	.14855	62.429	.50242	.59286	.02114
#1	10.406	.99835	.50084	-.00291	.49777	1.0066	-.01170	.49450	.49674	.49069
#2	10.528	1.0005	.50018	-.00106	.49708	1.0088	-.03020	.49100	.49260	.49084
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4026.5**	**48507.**	**5590.5**
Stddev	2.5	37.	4.0
%RSD	.06250	.07723	.07140
#1	4024.7	48533.	5593.4
#2	4028.3	48480.	5587.7

Sample Name: CCB Acquired: 12/13/2011 19:53:58 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00360**	**-.00171**	F **.00340**	**-.00012**	**.00006**	**.00162**	**.00422**	**.00018**	**.00009**	**-.00002**	**-.00037**
Stddev	.00041	.00083	.00135	.00021	.00003	.00006	.00202	.00069	.00004	.00010	.00006	.00037
%RSD	349.03	22.891	79.165	6.2129	22.949	96.688	125.04	16.448	22.864	111.88	342.83	101.28
#1	.00041	.00302	-.00075	.00355	-.00013	.00010	.00305	.00373	.00015	.00002	-.00006	-.00010
#2	-.00017	.00419	-.00267	.00325	-.00010	.00002	.00019	.00471	.00021	.00016	.00003	-.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00312								
Low Limit				-.00312								

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.08451**	**.00208**	W **.01412**	**.00008**	**.00042**	F **.24547**	**-.00030**	**.00136**	**-.00002**	F **.30630**	**.00100**
Stddev	.00183	.01181	.00065	.00181	.00002	.00002	.00268	.00031	.00060	.00027	.00702	.00140
%RSD	131.92	13.978	31.415	12.834	29.491	3.6651	1.0933	101.93	44.055	1173.3	2.2919	140.99
#1	.00009	.07615	.00162	.01283	.00006	.00041	.24357	-.00052	.00093	-.00021	.31126	.00000
#2	.00268	.09286	.00255	.01540	.00010	.00043	.24737	-.00009	.00178	.00017	.30133	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.01070			.18300				.20000	
Low Limit				-.01070			-.18320				-.20000	

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**-.00542**	**-.01159**	**-.00078**	**.00004**	**-.00033**	**.00018**	**-.00030**	**-.00180**	**-.00011**	**.00215**	**-.00011**
Stddev	.00149	.00255	.00546	.00059	.00000	.00235	.00008	.00080	.00193	.00013	.00024	.00045
%RSD	278.74	47.098	47.098	75.624	10.624	705.00	45.893	268.47	107.04	118.08	11.046	395.68
#1	.00159	-.00722	-.01546	-.00120	.00004	-.00200	.00024	-.00086	-.00044	-.00020	.00232	-.00043
#2	-.00052	-.00361	-.00773	-.00036	.00004	.00133	.00012	.00027	-.00316	-.00002	.00198	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4020.3**	**48978.**	**5435.7**
Stddev	26.6	59.	21.7
%RSD	.66179	.11989	.40008
#1	4039.1	49020.	5451.0
#2	4001.5	48937.	5420.3

Sample Name: CCVL1171013 Acquired: 12/13/2011 19:56:24 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01013**	**.10776**	**.01376**	**.10630**	**.01007**	**.00105**	**.11176**	**.21767**	**.00502**	**.01056**	**.01053**	**.01531**	**.10533**
Stddev	.00052	.00120	.00054	.00054	.00029	.00000	.00245	.01117	.00002	.00017	.00001	.00004	.00405
%RSD	5.1696	1.1163	3.9308	.50684	2.8634	.05821	2.1902	5.1305	.47375	1.5676	.06431	.24516	3.8466
#1	.00976	.10691	.01338	.10668	.00986	.00105	.11349	.20977	.00500	.01045	.01054	.01534	.10247
#2	.01050	.10861	.01414	.10592	.01027	.00105	.11003	.22557	.00504	.01068	.01053	.01529	.10820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1882**	**.01288**	**.22894**	**.01048**	**.02050**	F **1.3076**	**.04131**	**3.0863**	**.00841**	**.24430**	**.00887**	**.01337**	**.49303**
Stddev	.0374	.00026	.01357	.00010	.00022	.0701	.00002	.0007	.00214	.00286	.00158	.00111	.00679
%RSD	1.1720	1.9983	5.9269	.97914	1.0971	5.3578	.04130	.02328	25.493	1.1705	17.855	8.2791	1.3764
#1	3.1618	.01270	.21934	.01041	.02066	1.2580	.04132	3.0868	.00992	.24632	.00998	.01415	.49783
#2	3.2146	.01307	.23853	.01055	.02034	1.3571	.04130	3.0858	.00689	.24228	.00775	.01258	.48823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value						1.0000							
Range						30.000%							

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0551**	**.10459**	**.01039**	**.01511**	**.01066**	**.01758**	F **.08251**	**.00937**	**.02276**	**.01785**
Stddev	.0145	.00052	.00030	.00028	.00011	.00083	.01740	.00017	.00006	.00040
%RSD	1.3764	.49495	2.8581	1.8462	1.0312	4.7192	21.089	1.8594	.27582	2.2634
#1	1.0654	.10495	.01018	.01531	.01059	.01699	.07020	.00925	.02271	.01757
#2	1.0448	.10422	.01060	.01491	.01074	.01817	.09481	.00950	.02280	.01814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value							.06000			
Range							30.000%			

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4151.3**	**50074.**	**5643.3**
Stddev	9.8	397.	36.9
%RSD	.23546	.79193	.65385
#1	4158.2	50354.	5669.4
#2	4144.4	49793.	5617.2

Sample Name: 280-23655-j-1-a Acquired: 12/13/2011 19:58:46 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.07201**	**.15386**	**4.5753**	**1.5526**	**.00005**	**.00125**	**153.09**	**.00018**	**.02833**
Stddev	.00034	.00184	.00114	.0004	.0051	.00003	.00110	.68	.00011	.00039
%RSD	130.04	2.5519	.74258	.00801	.32868	55.060	87.890	.44459	60.362	1.3718
#1	-.00051	.07330	.15305	4.5756	1.5562	.00007	.00047	153.57	.00026	.02806
#2	-.00002	.07071	.15467	4.5750	1.5489	.00003	.00203	152.61	.00010	.02861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08633**	**.00314**	**12.699**	W **396.22**	**.08466**	**89.063**	**1.0097**	**.00626**	W **1030.1**	**.09295**
Stddev	.00016	.00014	.057	2.01	.00028	.200	.0023	.00020	2.4	.00044
%RSD	.18500	4.4324	.44907	.50653	.33325	.22495	.23181	3.2402	.23092	.46856
#1	.08645	.00305	12.739	397.64	.08486	89.205	1.0114	.00640	1031.8	.09326
#2	.08622	.00324	12.659	394.80	.08446	88.921	1.0081	.00612	1028.4	.09264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit				100.00					500.00	
Low Limit				-.50000					10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **8.1045**	**.00231**	**19.020**	**-.00181**	**.00750**	**15.951**	**34.134**	**.11623**	**1.3530**	**-.00049**
Stddev	.0237	.00054	.028	.00137	.00342	.018	.038	.00030	.0010	.00162
%RSD	.29266	23.554	.14510	75.778	45.613	.11203	.11203	.26174	.07533	334.45
#1	8.1213	.00192	19.040	-.00277	.00508	15.938	34.107	.11602	1.3537	-.00163
#2	8.0878	.00269	19.001	-.00084	.00992	15.963	34.161	.11645	1.3523	.00066
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09686**	**.00116**	W **-.06099**	**.02632**	**.04548**	**.02027**
Stddev	.00011	.00047	.00967	.00048	.00032	.00072
%RSD	.11369	40.294	15.860	1.8091	.69379	3.5734
#1	.09678	.00149	-.05415	.02665	.04571	.02078
#2	.09694	.00083	-.06783	.02598	.04526	.01976
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			45.000			
Low Limit			-.05000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3586.8**	**41825.**	**5512.9**
Stddev	2.1	59.	38.7
%RSD	.05929	.14139	.70125
#1	3588.3	41784.	5485.6
#2	3585.3	41867.	5540.3

Sample Name: 280-23660-c-13-a Acquired: 12/13/2011 20:01:10 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.47223**	**.01083**	**.58541**	**.09349**	**.00010**	**.00137**	**130.05**	**-.00001**	**-.00002**
Stddev	.00065	.00675	.00140	.00084	.00008	.00003	.00199	.11	.00000	.00001
%RSD	179.55	1.4294	12.922	.14410	.08389	34.516	144.98	.08764	49.969	32.576
#1	.00010	.46746	.00984	.58481	.09354	.00012	-.00003	129.97	-.00001	-.00003
#2	-.00082	.47700	.01182	.58601	.09343	.00007	.00278	130.13	.00000	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.00139**	**8.0600**	**38.136**	**.00270**	**15.562**	**.11900**	**.00221**	**30.982**	**.00048**
Stddev	.00006	.00019	.0021	.085	.00185	.018	.00001	.00014	.293	.00012
%RSD	2.9027	13.843	.02613	.22386	68.332	.11322	.01006	6.2714	.94492	24.089
#1	.00209	.00125	8.0615	38.197	.00401	15.549	.11899	.00211	30.775	.00056
#2	.00201	.00152	8.0585	38.076	.00140	15.574	.11901	.00230	31.189	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22119**	**-.00054**	**88.386**	**-.00307**	**-.00032**	**2.8805**	**6.1643**	**-.00027**	**.40733**	**-.00002**
Stddev	.00227	.00017	.052	.00028	.00435	.0191	.0410	.00049	.00007	.00211
%RSD	1.0275	30.778	.05863	9.1700	1367.4	.66428	.66428	181.04	.01730	13049.
#1	.22279	-.00042	88.350	-.00327	.00276	2.8940	6.1933	.00008	.40728	-.00150
#2	.21958	-.00066	88.423	-.00287	-.00340	2.8670	6.1353	-.00062	.40738	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01180**	**.00090**	**.00734**	**.00445**	**.00653**	**.00194**
Stddev	.00023	.00144	.01731	.00074	.00046	.00036
%RSD	1.9528	160.24	235.79	16.608	7.0181	18.355
#1	.01197	-.00012	.01959	.00498	.00621	.00219
#2	.01164	.00192	-.00490	.00393	.00686	.00169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3945.1**	**47517.**	**5674.9**
Stddev	2.0	13.	22.2
%RSD	.05163	.02832	.39110
#1	3946.6	47507.	5659.2
#2	3943.7	47526.	5690.6

Sample Name: 280-23660-c-14-a Acquired: 12/13/2011 20:03:32 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.25293**	**.00426**	**2.8259**	**.09410**	**.00002**	**.00234**	**60.557**	**.00044**	**.00212**
Stddev	.00031	.00171	.00255	.0084	.00051	.00007	.00047	.029	.00007	.00008
%RSD	4862.5	.67723	59.932	.29868	.54576	309.69	20.125	.04777	16.461	3.7228
#1	-.00021	.25172	.00246	2.8200	.09374	-.00003	.00267	60.536	.00049	.00206
#2	.00023	.25414	.00607	2.8319	.09446	.00007	.00200	60.577	.00039	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00552**	**.00388**	**13.487**	**48.760**	**.00323**	**21.399**	**.17268**	**.00613**	**95.120**	**.00156**
Stddev	.00014	.00014	.011	.083	.00113	.059	.00012	.00009	.368	.00021
%RSD	2.4463	3.6980	.08266	.16939	34.890	.27464	.06811	1.4259	.38666	13.497
#1	.00562	.00398	13.479	48.702	.00403	21.357	.17260	.00620	94.860	.00171
#2	.00543	.00377	13.495	48.819	.00243	21.440	.17277	.00607	95.380	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07942**	**.00146**	**110.04**	**-.00074**	**-.00048**	**1.9572**	**4.1884**	**-.00010**	**.27303**	**-.00121**
Stddev	.00104	.00078	.60	.00150	.00045	.0225	.0480	.00025	.00066	.00134
%RSD	1.3122	53.641	.54892	201.92	92.880	1.1469	1.1469	235.53	.24142	110.16
#1	.08016	.00201	109.61	.00032	-.00017	1.9413	4.1545	.00007	.27257	-.00216
#2	.07869	.00091	110.47	-.00181	-.00080	1.9731	4.2224	-.00028	.27350	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00432**	**.00039**	**-.01730**	**.00855**	**.01663**	**.00002**
Stddev	.00014	.00086	.00288	.00055	.00076	.00102
%RSD	3.3230	219.03	16.669	6.3925	4.5708	4650.0
#1	.00422	.00100	-.01934	.00894	.01716	-.00070
#2	.00442	-.00022	-.01526	.00817	.01609	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3980.5**	**48189.**	**5851.3**
Stddev	9.8	290.	5.5
%RSD	.24501	.60135	.09450
#1	3987.4	48394.	5855.2
#2	3973.6	47985.	5847.4

Sample Name: 280-23660-c-15-a Acquired: 12/13/2011 20:05:53 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.22109**	**.00058**	**.11459**	**.01490**	**.00000**	**.00165**	**7.4182**	**.00011**	**.00025**
Stddev	.00017	.00160	.00001	.00034	.00011	.00007	.00020	.0191	.00002	.00004
%RSD	23.978	.72580	1.9631	.30084	.71960	3006.8	12.276	.25785	22.191	16.440
#1	-.00084	.21996	.00057	.11435	.01482	.00005	.00151	7.4046	.00009	.00022
#2	-.00060	.22223	.00059	.11484	.01497	-.00005	.00180	7.4317	.00012	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.00089**	**.05550**	**24.062**	**.00183**	**2.9467**	**.00633**	**.00301**	**7.2709**	**.00012**
Stddev	.00004	.00013	.00247	.089	.00182	.0093	.00000	.00005	.0051	.00006
%RSD	4.5436	14.074	4.4526	.36898	99.605	.31499	.05569	1.6256	.07046	54.275
#1	.00093	.00080	.05375	24.000	.00054	2.9533	.00633	.00305	7.2673	.00017
#2	.00087	.00098	.05724	24.125	.00312	2.9401	.00632	.00298	7.2746	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01202**	**-.00007**	**5.2813**	**-.00152**	**.00069**	**1.9745**	**4.2254**	**.00030**	**.05257**	**-.00099**
Stddev	.00189	.00010	.0093	.00193	.00119	.0286	.0612	.00024	.00020	.00073
%RSD	15.718	152.96	.17687	126.70	172.79	1.4492	1.4492	80.080	.38932	73.779
#1	.01336	-.00014	5.2747	-.00016	-.00015	1.9543	4.1821	.00047	.05243	-.00150
#2	.01069	.00001	5.2879	-.00288	.00153	1.9947	4.2687	.00013	.05272	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00611**	**.00088**	**-.00289**	**.00345**	**.00380**	**.00218**
Stddev	.00004	.00078	.01159	.00007	.00012	.00070
%RSD	.63992	88.560	401.54	2.0433	3.0759	32.381
#1	.00613	.00033	.00531	.00340	.00372	.00267
#2	.00608	.00142	-.01108	.00350	.00388	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4133.7**	**49909.**	**5699.5**
Stddev	14.3	33.	1.4
%RSD	.34632	.06563	.02489
#1	4143.9	49933.	5698.5
#2	4123.6	49886.	5700.5

Sample Name: 280-23660-c-16-a Acquired: 12/13/2011 20:08:15 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288
Line	328.068 {103}	167.079 {502}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**2.4855**	W **2.6982**	**.00631**	**.03355**	**.06493**	**.00012**	**.00155**	**13.227**	**.00013**
Stddev	.00000	.0017	.0031	.00206	.00003	.00033	.00001	.00120	.040	.00009
%RSD	.53198	.06899	.11339	32.632	.09048	.50799	7.0564	77.423	.30522	67.311
#1	-.00040	2.4867	2.6960	.00485	.03352	.06516	.00011	.00240	13.255	.00007
#2	-.00040	2.4843	2.7003	.00776	.03357	.06470	.00013	.00070	13.198	.00019
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			500.00							
Low Limit			3.2000							

Elem	Co2286	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	228.616 {447}	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00301**	**.00069**	**5.7715**	**7.5264**	**.00371**	**4.8258**	**.05882**	**.00139**	**19.338**
Stddev	.00004	.00008	.00035	.0238	.0455	.00118	.0048	.00004	.00028	.179
%RSD	10.015	2.6004	50.625	.41192	.60436	31.902	.09897	.06224	20.096	.92417
#1	.00048	.00306	.00045	5.7883	7.5585	.00288	4.8224	.05884	.00159	19.212
#2	.00042	.00295	.00094	5.7547	7.4942	.00455	4.8291	.05879	.00119	19.465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.07296**	**.00073**	**16.097**	**-.00035**	**.00248**	**8.5339**	**18.263**	**-.00041**	**.15443**
Stddev	.00012	.00368	.00083	.033	.00077	.00160	.0174	.037	.00017	.00000
%RSD	12.865	5.0502	113.20	.20538	222.43	64.567	.20386	.20386	41.095	.00285
#1	.00082	.07036	.00015	16.121	-.00089	.00135	8.5462	18.289	-.00053	.15442
#2	.00099	.07557	.00131	16.074	.00020	.00361	8.5216	18.236	-.00029	.15443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	283.730 {119}	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.08013**	**.00079**	**-.01254**	**.01145**	**.00560**	**.00376**
Stddev	.00131	.00006	.00017	.00198	.00014	.00032	.00024
%RSD	225.70	.07297	21.868	15.791	1.2591	5.6575	6.4302
#1	-.00035	.08009	.00092	-.01394	.01135	.00538	.00393
#2	.00151	.08017	.00067	-.01114	.01155	.00583	.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4110.2**	**49971.**	**5787.9**
Stddev	3.0	37.	21.0
%RSD	.07233	.07414	.36205
#1	4108.1	49945.	5773.1
#2	4112.3	49997.	5802.7

Sample Name: 280-23665-k-1-a Acquired: 12/13/2011 20:10:35 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	W **-.07479**	**.07038**	**2.5744**	**.07871**	**.00002**	**.00175**	W **691.95**	**.00118**	**.00965**
Stddev	.00002	.00062	.00320	.0041	.00052	.00000	.00012	3.87	.00018	.00008
%RSD	7.7428	.83449	4.5405	.15918	.65537	18.158	6.6133	.55974	15.073	.82113
#1	-.00026	-.07523	.07263	2.5773	.07908	.00002	.00167	689.21	.00105	.00960
#2	-.00029	-.07434	.06812	2.5715	.07835	.00002	.00183	694.69	.00130	.00971
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit		2.5000						500.00		
Low Limit		-.05000						-.05000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00695**	**.02827**	**.13350**	F **639.37**	**.40501**	W **1677.6**	**.01171**	**.25725**	W **7486.9**	**.95017**
Stddev	.00006	.00006	.00126	.71	.00032	1.4	.00000	.00026	26.0	.00261
%RSD	.82195	.19494	.94240	.11115	.08001	.08360	.02525	.10224	.34693	.27508
#1	.00699	.02824	.13439	639.88	.40524	1676.6	.01171	.25743	7505.3	.95201
#2	.00691	.02831	.13261	638.87	.40478	1678.6	.01171	.25706	7468.6	.94832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit				500.00		500.00			500.00	
Low Limit				-2.0000		-.10000			10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08787**	**.00130**	F **2032.7**	**-.00861**	**.01533**	**8.4059**	**17.989**	**-.00284**	W **11.245**	W **-.01230**
Stddev	.00016	.00241	10.8	.00036	.00003	.0371	.079	.00140	.017	.00357
%RSD	.18122	185.96	.53146	4.1397	.19305	.44140	.44140	49.304	.14873	29.023
#1	.08799	.00300	2040.4	-.00886	.01535	8.4321	18.045	-.00384	11.233	-.00978
#2	.08776	-.00041	2025.1	-.00836	.01530	8.3797	17.932	-.00185	11.257	-.01483
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn
High Limit			200.00						5.0000	45.000
Low Limit			-.20000						-.01000	-.01000

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00071**	**-.00596**	**.00128**	**.41204**	**.00163**
Stddev	.00046	.00148	.01364	.00009	.00175	.00138
%RSD	316.56	209.39	228.99	7.3654	.42537	84.808
#1	-.00018	-.00175	.00369	.00121	.41328	.00260
#2	.00048	.00034	-.01560	.00135	.41080	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**2723.0**	**32013.**	**5116.4**
Stddev	1.7	73.	3.5
%RSD	.06334	.22871	.06846
#1	2721.8	32065.	5118.9
#2	2724.2	31961.	5114.0

Sample Name: 280-23665-k-2-a Acquired: 12/13/2011 20:13:18 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99569 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	W **-.07495**	**-.00065**	**3.9219**	**.02377**	**.00003**	**.00131**	**317.89**	**.00077**	**-.00045**
Stddev	.00064	.00019	.00222	.0105	.00017	.00007	.00164	2.61	.00025	.00032
%RSD	168.18	.24733	338.89	.26747	.71562	286.65	125.08	.82110	31.712	69.724
#1	.00007	-.07508	.00091	3.9294	.02365	.00008	.00247	316.04	.00095	-.00068
#2	-.00083	-.07482	-.00222	3.9145	.02389	-.00003	.00015	319.73	.00060	-.00023
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2.5000								
Low Limit		-.05000								

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00470**	**.00786**	**.06340**	**38.555**	**.26439**	W **1552.4**	**.00533**	**.00493**	W **2728.1**	**.04078**
Stddev	.00023	.00047	.00191	.062	.00228	1.7	.00004	.00007	10.5	.00016
%RSD	4.8061	5.9955	3.0126	.16005	.86157	.10916	.78270	1.3528	.38642	.40168
#1	.00486	.00819	.06475	38.511	.26600	1553.6	.00536	.00498	2720.7	.04067
#2	.00455	.00752	.06205	38.598	.26278	1551.2	.00530	.00489	2735.6	.04090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						500.00			500.00	
Low Limit						-.10000			10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07168**	**-.00090**	F **2408.3**	**-.00514**	**.35534**	**16.009**	**34.260**	**-.00207**	**4.5249**	**-.00965**
Stddev	.00354	.00008	4.2	.00005	.00231	.086	.184	.00077	.0484	.00088
%RSD	4.9451	8.5905	.17562	1.0703	.64952	.53743	.53743	37.134	1.0697	9.0752
#1	.06918	-.00085	2405.3	-.00518	.35371	15.949	34.130	-.00153	4.5591	-.01027
#2	.07419	-.00096	2411.3	-.00510	.35697	16.070	34.390	-.00262	4.4907	-.00903
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			200.00							
Low Limit			-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00245**	**.00051**	**.04291**	**.00811**	**.18465**	**.00109**
Stddev	.00024	.00046	.00042	.00057	.00027	.00043
%RSD	9.6653	90.103	.98137	6.9972	.14570	39.546
#1	-.00262	.00019	.04261	.00851	.18445	.00140
#2	-.00228	.00084	.04321	.00771	.18484	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3180.3**	**37518.**	**5352.1**
Stddev	3.5	1.	150.0
%RSD	.11085	.00374	2.8027
#1	3182.8	37519.	5458.2
#2	3177.8	37517.	5246.1

Sample Name: CCVH-1169743 Acquired: 12/13/2011 20:16:02 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**49.172**	**-.00005**	**.00928**	**.00054**	**-.00008**	**.99224**	**.10631**	**-.00073**	**.00077**	**.00048**	**-.00081**
Stddev	.00026	.274	.00358	.00088	.00020	.00005	.00344	.12890	.00002	.00010	.00016	.00001
%RSD	89.771	.55650	7937.4	9.5311	37.341	66.318	.34622	121.25	3.2836	13.007	33.547	1.3815
#1	-.00011	48.978	.00249	.00991	.00040	-.00004	.98981	.19745	-.00072	.00085	.00037	-.00082
#2	-.00047	49.365	-.00258	.00866	.00068	-.00012	.99467	.01516	-.00075	.00070	.00059	-.00080
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None
Value												
Range												

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.123**	**.36800**	**.00249**	**.10820**	**-.00146**	**-.00196**	**246.34**	**.00092**	**.00146**	**-.00089**	W **5.4326**	**-.00288**
Stddev	.209	.02950	.00114	.01191	.00004	.00017	.28	.00005	.00152	.00056	.0656	.00015
%RSD	.42502	8.0174	46.050	11.008	2.6199	8.5135	.11372	5.1334	104.04	63.388	1.2075	5.3548
#1	48.975	.38886	.00330	.09978	-.00148	-.00208	246.54	.00089	.00039	-.00049	5.4789	-.00278
#2	49.271	.34714	.00168	.11662	-.00143	-.00185	246.14	.00095	.00254	-.00129	5.3862	-.00299
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None	None	None	Chk Warn	None
Value											5.0000	
Range											5.0000%	

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**.02311**	**.04945**	**.00230**	**.00178**	**4.8612**	**.00084**	**-.00469**	**10.134**	**-.00026**	**.00191**	**-.01081**
Stddev	.00127	.00377	.00806	.00064	.00171	.0062	.00001	.00067	.019	.00033	.00000	.00092
%RSD	130.69	16.301	16.301	27.766	96.249	.12798	1.4307	14.251	.18604	129.48	.22389	8.5496
#1	.00187	.02044	.04375	.00185	.00299	4.8568	.00083	-.00516	10.147	-.00002	.00191	-.01147
#2	.00007	.02577	.05515	.00275	.00057	4.8656	.00084	-.00422	10.120	-.00049	.00192	-.01016
Check ?	None	None	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value												
Range												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3929.8**	**47078.**	**5530.7**
Stddev	4.4	119.	8.6
%RSD	.11289	.25247	.15514
#1	3926.7	47162.	5536.8
#2	3933.0	46994.	5524.7

Sample Name: CCV-1169927 Acquired: 12/13/2011 20:18:23 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48444**	**.50015**	**.99048**	**.49779**	**.48985**	**.49357**	**.00257**	**4.9303**	**.49413**	**.49957**	**.49944**	**.49281**	**2.4072**
Stddev	.00163	.00467	.00131	.00314	.00355	.00121	.00252	.0070	.00232	.00115	.00137	.00191	.0142
%RSD	.33748	.93449	.13222	.63101	.72542	.24567	98.062	.14229	.46992	.23081	.27488	.38747	.59145
#1	.48559	.50345	.98956	.49557	.48734	.49271	.00435	4.9253	.49248	.49875	.49847	.49416	2.3971
#2	.48328	.49684	.99141	.50001	.49236	.49442	.00079	4.9353	.49577	.50039	.50041	.49146	2.4173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.470**	**1.0017**	**19.334**	**.48694**	**.49699**	**5.1547**	**.50018**	**.98264**	**.98879**	**.28255**	**.98730**	**.97210**	**4.8574**
Stddev	.167	.0052	.127	.00233	.00033	.0095	.00129	.00336	.00000	.01428	.00145	.00065	.0578
%RSD	.33852	.51542	.65711	.47899	.06585	.18494	.25701	.34212	.00040	5.0532	.14668	.06727	1.1907
#1	49.351	.99809	19.424	.48859	.49676	5.1480	.49927	.98026	.98880	.29265	.98833	.97164	4.8165
#2	49.588	1.0054	19.244	.48529	.49722	5.1615	.50109	.98502	.98879	.27246	.98628	.97256	4.8983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.395**	**.99382**	**.49893**	**-.00017**	**.49314**	**1.0035**	**-.03567**	**.48683**	**.48771**	**.48741**
Stddev	.124	.00130	.00150	.00049	.00235	.0050	.00325	.00269	.00140	.00255
%RSD	1.1907	.13088	.29972	293.89	.47640	.49745	9.1191	.55199	.28628	.52233
#1	10.307	.99474	.49788	-.00051	.49480	.99998	-.03797	.48873	.48869	.48561
#2	10.482	.99290	.49999	.00018	.49148	1.0070	-.03337	.48493	.48672	.48921
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4065.2**	**49198.**	**5683.2**
Stddev	18.4	273.	14.0
%RSD	.45272	.55508	.24687
#1	4078.2	49005.	5693.1
#2	4052.2	49391.	5673.3

Sample Name: CCB Acquired: 12/13/2011 20:20:34 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00271**	**-.00126**	F **.00400**	**-.00012**	**.00005**	**-.00177**	**.00106**	**.00016**	**.00024**	**.00007**	**-.00025**	**.00088**
Stddev	.00020	.00006	.00279	.00002	.00003	.00004	.00090	.00220	.00002	.00004	.00006	.00001	.00357
%RSD	187.63	2.2442	221.36	.42302	24.770	93.547	51.083	206.29	10.699	17.794	92.147	3.0478	404.00
#1	-.00024	.00267	-.00323	.00402	-.00014	.00008	-.00241	.00262	.00017	.00021	.00002	-.00026	.00341
#2	.00003	.00276	.00071	.00399	-.00010	.00002	-.00113	-.00049	.00015	.00027	.00011	-.00025	-.00164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00312									
Low Limit				-.00312									

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10414**	**.00088**	**.00684**	**.00002**	**.00059**	F **.24446**	**.00012**	**.00201**	**-.00023**	F **.23284**	**.00235**	**.00014**	**-.01492**
Stddev	.00445	.00026	.00247	.00000	.00008	.00494	.00006	.00031	.00147	.00380	.00127	.00151	.01386
%RSD	4.2730	29.586	36.051	18.811	12.892	2.0197	48.039	15.592	633.73	1.6340	53.732	1091.3	92.852
#1	.10729	.00106	.00510	.00003	.00064	.24795	.00008	.00224	.00080	.23553	.00146	-.00093	-.02472
#2	.10099	.00070	.00859	.00002	.00053	.24097	.00016	.00179	-.00127	.23015	.00325	.00120	-.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.18300				.20000			
Low Limit						-.18320				-.20000			

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.03193**	**.00056**	**.00005**	**.00029**	**.00041**	**.00036**	**-.00819**	**.00000**	**.00169**	**.00076**
Stddev	.02965	.00059	.00001	.00116	.00006	.00113	.02867	.0001	.00069	.00002
%RSD	92.852	106.59	21.784	402.76	14.670	313.51	350.23	5154.3	40.817	2.2116
#1	-.05290	.00014	.00006	.00111	.00036	.00116	-.02846	-.00005	.00218	.00077
#2	-.01097	.00098	.00004	-.00053	.00045	-.00044	.01209	.00005	.00120	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4030.0**	**49251.**	**5539.5**
Stddev	8.7	42.	31.7
%RSD	.21496	.08476	.57223
#1	4023.8	49280.	5561.9
#2	4036.1	49221.	5517.1

Sample Name: CCVL1171013 Acquired: 12/13/2011 20:22:59 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01002**	**.10791**	**.01571**	**.10848**	**.01002**	**.00098**	**.11448**	**.21152**	**.00511**	**.01071**	**.01055**	**.01519**	**.10060**	**3.2315**
Stddev	.00062	.00395	.00430	.00008	.00021	.00003	.00049	.00060	.00005	.00006	.00001	.00000	.00012	.0593
%RSD	6.1726	3.6630	27.405	.07824	2.0916	2.9040	.43154	.28146	.94613	.56241	.08442	.02406	.11745	1.8346
#1	.01045	.10512	.01875	.10842	.00987	.00100	.11483	.21110	.00507	.01066	.01055	.01519	.10069	3.1895
#2	.00958	.11071	.01266	.10854	.01016	.00096	.11413	.21194	.00514	.01075	.01054	.01519	.10052	3.2734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01130**	**.21338**	**.01046**	**.02057**	**1.2681**	**.04163**	**3.1216**	**.00919**	**.18151**	**.00913**	**.01355**	**.50053**	**1.0711**	**.10559**
Stddev	.00168	.00148	.00002	.00014	.0080	.00001	.0096	.00011	.00516	.00073	.00067	.00746	.0160	.00047
%RSD	14.907	.69144	.23394	.67057	.63105	.02062	.30656	1.1658	2.8451	8.0181	4.9311	1.4905	1.4905	.44222
#1	.01249	.21443	.01047	.02047	1.2738	.04164	3.1148	.00926	.18516	.00861	.01308	.50581	1.0824	.10526
#2	.01011	.21234	.01044	.02067	1.2625	.04162	3.1283	.00911	.17785	.00965	.01402	.49526	1.0598	.10592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01030**	**.01537**	**.01035**	**.01749**	**.05761**	**.00956**	**.02235**	**.01646**
Stddev	.00008	.00087	.00008	.00064	.00673	.00049	.00002	.00129
%RSD	.77624	5.6696	.81175	3.6326	11.677	5.0968	.09805	7.8149
#1	.01035	.01599	.01041	.01794	.06236	.00921	.02233	.01555
#2	.01024	.01476	.01029	.01704	.05285	.00990	.02236	.01737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4167.9**	**50940.**	**5734.9**
Stddev	14.3	164.	4.6
%RSD	.34209	.32212	.08054
#1	4178.0	51056.	5738.2
#2	4157.8	50824.	5731.6

Sample Name: mb 280-99619/1-a Acquired: 12/13/2011 20:25:22 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99619 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.00491**	**-.00128**	**.00326**	**-.00004**	**.00005**	**.00139**	**.01502**	**.00004**	**.00014**
Stddev	.00005	.00195	.00031	.00036	.00006	.00003	.00217	.00038	.00000	.00001
%RSD	9.0084	39.653	24.005	10.954	145.95	67.173	155.61	2.5130	10.520	5.6070
#1	-.00055	.00353	-.00150	.00351	.00000	.00003	.00293	.01475	.00004	.00014
#2	-.00063	.00628	-.00107	.00301	-.00008	.00007	-.00014	.01528	.00003	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00007**	**.00361**	**.08963**	**.00292**	**.01487**	**.00020**	**.00006**	**.25289**	**-.00009**
Stddev	.00011	.00019	.00003	.02562	.00027	.00018	.00003	.00022	.00239	.00028
%RSD	448.86	273.00	.70813	28.589	9.3162	1.2234	14.438	350.99	.94697	313.08
#1	-.00005	.00007	.00359	.10774	.00311	.01474	.00018	.00022	.25458	-.00029
#2	.00010	-.00021	.00363	.07151	.00273	.01500	.00023	-.00009	.25119	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00068**	F **.23724**	**-.00084**	**-.00066**	W **.00740**	W **.01584**	**-.00007**	**.00010**	**.00052**
Stddev	.00158	.00012	.01060	.00038	.00015	.00039	.00084	.00061	.00001	.00121
%RSD	247.06	17.819	4.4697	44.867	22.724	5.2999	5.2999	904.69	8.7550	234.29
#1	-.00048	.00077	.24473	-.00057	-.00055	.00712	.01524	-.00050	.00010	.00137
#2	.00176	.00060	.22974	-.00110	-.00076	.00768	.01643	.00037	.00011	-.00034
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			.01000			.00500	.00500			
Low Limit			-.01000			-.00500	-.00500			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.00009**	**-.00597**	**-.00022**	**.00285**	**.00070**
Stddev	.00019	.00023	.05110	.00022	.00017	.00145
%RSD	113.12	267.57	856.36	98.866	6.1082	207.72
#1	.00030	-.00025	-.04210	-.00007	.00272	-.00033
#2	.00003	.00008	.03017	-.00037	.00297	.00172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4003.7**	**49367.**	**5560.4**
Stddev	9.8	50.	75.7
%RSD	.24503	.10203	1.3613
#1	4010.6	49331.	5506.9
#2	3996.7	49403.	5613.9

Sample Name: lcs 280-99619/2-a Acquired: 12/13/2011 20:27:48 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99619 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04827**	**1.8969**	**.97562**	**.99371**	**1.9189**	**.04877**	**1.9983**	**46.432**	**.09630**	**.47765**
Stddev	.00042	.0045	.00243	.00031	.0058	.00028	.0003	.217	.00020	.00082
%RSD	.87130	.23752	.24878	.03167	.30094	.56429	.01653	.46835	.20314	.17064
#1	.04857	1.9000	.97391	.99393	1.9148	.04858	1.9981	46.279	.09644	.47823
#2	.04797	1.8937	.97734	.99349	1.9230	.04897	1.9986	46.586	.09616	.47708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19545**	**.24362**	**.95256**	**47.782**	**.98247**	**46.193**	**.47971**	**.98707**	**50.663**	**.48272**
Stddev	.00084	.00115	.00765	.122	.00239	.067	.00147	.00254	.108	.00090
%RSD	.43126	.47297	.80266	.25620	.24341	.14577	.30556	.25774	.21347	.18670
#1	.19605	.24443	.94716	47.696	.98078	46.145	.47867	.98886	50.587	.48336
#2	.19485	.24280	.95797	47.869	.98416	46.241	.48074	.98527	50.740	.48208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7223**	**.47595**	**.24643**	**.48328**	**1.8929**	**9.4113**	F **20.140**	**1.9346**	**.97560**	**.98692**
Stddev	.0147	.00029	.01235	.00219	.0008	.0706	.151	.0035	.00382	.00200
%RSD	.15101	.06149	5.0101	.45288	.04127	.75059	.75059	.18171	.39152	.20221
#1	9.7327	.47616	.25516	.48174	1.8923	9.3614	20.033	1.9371	.97290	.98551
#2	9.7119	.47575	.23770	.48483	1.8934	9.4613	20.247	1.9321	.97831	.98833
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							24.610			
Low Limit							20.100			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99274**	**1.9064**	**2.1349**	**.48183**	**.46722**	**.48527**
Stddev	.00113	.0070	.0280	.00066	.00376	.00292
%RSD	.11345	.36532	1.3100	.13698	.80442	.60152
#1	.99194	1.9014	2.1547	.48136	.46456	.48320
#2	.99353	1.9113	2.1151	.48229	.46988	.48733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3846.7**	**46387.**	**5555.9**
Stddev	14.5	32.	10.4
%RSD	.37763	.06911	.18789
#1	3836.5	46365.	5563.3
#2	3857.0	46410.	5548.5

Sample Name: 280-23606-b-2-a Acquired: 12/13/2011 20:29:57 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99619 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.39761**	**.02439**	**.66546**	**.05044**	**.00009**	**.00022**	**18.975**	**.00011**	**.00020**
Stddev	.00066	.00035	.00311	.00055	.00014	.00003	.00220	.103	.00027	.00025
%RSD	409.26	.08739	12.753	.08203	.27999	34.274	1013.7	.54344	258.56	128.53
#1	-.00030	.39736	.02659	.66507	.05054	.00007	.00177	19.048	-.00009	.00038
#2	.00063	.39786	.02219	.66585	.05034	.00011	-.00134	18.902	.00030	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.00101**	**.37510**	**15.098**	**.04920**	**6.3168**	**.01838**	**.06646**	**373.26**	**.00361**
Stddev	.00015	.00018	.00340	.006	.00013	.0389	.00008	.00007	2.00	.00031
%RSD	17.130	17.931	.90678	.04037	.26660	.61555	.45441	.10010	.53483	8.6679
#1	.00100	.00088	.37751	15.093	.04929	6.2893	.01833	.06651	374.67	.00383
#2	.00079	.00113	.37270	15.102	.04911	6.3443	.01844	.06641	371.85	.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02202**	**.00044**	**4.4852**	**.00871**	**.00069**	**3.9146**	**8.3773**	**-.00092**	**.71164**	**-.00017**
Stddev	.00060	.00011	.0195	.00001	.00020	.0400	.0855	.00007	.00203	.00009
%RSD	2.7355	24.109	.43414	.08352	29.032	1.0209	1.0209	7.6754	.28568	53.761
#1	.02244	.00051	4.4989	.00871	.00083	3.9429	8.4378	-.00097	.71308	-.00011
#2	.02159	.00036	4.4714	.00872	.00055	3.8864	8.3168	-.00087	.71020	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00529**	**.00004**	**-.02579**	**.00267**	**.00517**	**.00097**
Stddev	.00028	.00013	.00479	.00025	.00049	.00131
%RSD	5.2424	333.90	18.551	9.5209	9.4603	133.97
#1	.00548	.00013	-.02241	.00285	.00483	.00005
#2	.00509	-.00005	-.02918	.00249	.00552	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3843.1**	**44524.**	**5467.9**
Stddev	14.8	213.	17.6
%RSD	.38633	.47808	.32153
#1	3853.6	44675.	5455.5
#2	3832.6	44374.	5480.4

Sample Name: 280-23606-b-2-aSD@5 Acquired: 12/13/2011 20:32:25 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99619 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.10506**	**.00785**	**.15946**	**.01211**	**.00000**	**.00151**	**4.5911**	**.00004**	**.00011**
Stddev	.00021	.00292	.00153	.00098	.00006	.0000	.00195	.0280	.00003	.00005
%RSD	82.952	2.7835	19.552	.61259	.48458	966.71	129.00	.60992	80.240	44.891
#1	-.00040	.10299	.00893	.15876	.01207	-.00003	.00290	4.5713	.00007	.00015
#2	-.00011	.10712	.00676	.16015	.01216	.00003	.00013	4.6109	.00002	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.00017**	**.09614**	**3.7171**	**.01311**	**1.5404**	**.00444**	**.01602**	**90.242**	**.00085**
Stddev	.00007	.00016	.00223	.0042	.00054	.0069	.00004	.00015	.428	.00006
%RSD	13.514	90.216	2.3199	.11340	4.1229	.44760	.91711	.94885	.47405	7.1512
#1	.00056	.00006	.09771	3.7141	.01273	1.5355	.00447	.01613	89.940	.00081
#2	.00046	.00029	.09456	3.7201	.01349	1.5452	.00441	.01591	90.545	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00672**	**.00094**	**1.1393**	**.00309**	**-.00129**	**.93367**	**1.9981**	**.00019**	**.17039**	**-.00081**
Stddev	.00249	.00005	.0057	.00001	.00085	.00412	.0088	.00031	.00035	.00034
%RSD	37.088	5.5202	.50026	.34956	65.806	.44165	.44165	164.17	.20372	41.785
#1	.00496	.00091	1.1353	.00308	-.00189	.93076	1.9918	-.00003	.17015	-.00105
#2	.00848	.00098	1.1433	.00309	-.00069	.93659	2.0043	.00041	.17064	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.00061**	**-.02079**	**.00030**	**.00387**	**.00094**
Stddev	.00003	.00144	.01011	.00005	.00003	.00033
%RSD	2.8288	236.98	48.644	17.277	.89898	34.664
#1	.00118	-.00041	-.01364	.00034	.00389	.00071
#2	.00123	.00162	-.02794	.00026	.00384	.00118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4005.7**	**48061.**	**5611.6**
Stddev	17.4	127.	30.3
%RSD	.43486	.26337	.53935
#1	4018.0	48151.	5633.0
#2	3993.3	47972.	5590.2

Sample Name: 280-23606-b-2-b ms Acquired: 12/13/2011 20:34:49 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99619 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04822**	**3.6155**	**.99492**	**1.6619**	**1.9319**	**.04766**	F **1.9523**	**65.591**	**.09522**	**.45968**
Stddev	.00025	.0316	.00065	.0042	.0165	.00028	.0008	.461	.00035	.00073
%RSD	.51554	.87266	.06498	.24943	.85587	.59075	.04110	.70265	.37205	.15816
#1	.04839	3.6378	.99446	1.6590	1.9436	.04786	1.9517	65.917	.09547	.45916
#2	.04804	3.5932	.99538	1.6649	1.9202	.04746	1.9529	65.265	.09497	.46019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19038**	**.23913**	**1.4721**	**63.885**	**1.0178**	**51.254**	**.48407**	**1.0222**	**445.81**	**.46829**
Stddev	.00054	.00004	.0207	.299	.0030	.255	.00127	.0016	1.54	.00003
%RSD	.28386	.01795	1.4051	.46852	.29874	.49710	.26222	.15683	.34585	.00574
#1	.19076	.23910	1.4868	64.097	1.0200	51.074	.48317	1.0211	446.90	.46831
#2	.19000	.23916	1.4575	63.674	1.0157	51.434	.48497	1.0234	444.72	.46827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **9.7072**	**.45342**	**4.7614**	**.47859**	**1.8742**	**15.315**	**32.773**	**1.8515**	**1.7275**	**.97205**
Stddev	.0143	.00227	.0144	.00195	.0098	.078	.167	.0024	.0082	.00095
%RSD	.14713	.49955	.30248	.40735	.52365	.50994	.50994	.13224	.47412	.09739
#1	9.6971	.45182	4.7512	.47721	1.8672	15.370	32.891	1.8497	1.7333	.97138
#2	9.7173	.45503	4.7715	.47997	1.8811	15.259	32.655	1.8532	1.7217	.97272
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98475**	**1.7576**	**2.0145**	**.47649**	**.46293**	**.47663**
Stddev	.00228	.0024	.0137	.00121	.00552	.00130
%RSD	.23192	.13478	.68196	.25480	1.1927	.27260
#1	.98313	1.7593	2.0048	.47735	.45902	.47755
#2	.98636	1.7559	2.0242	.47564	.46683	.47571
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3730.8**	**43802.**	**5389.8**
Stddev	6.0	73.	26.4
%RSD	.16010	.16772	.49015
#1	3735.1	43854.	5371.1
#2	3726.6	43750.	5408.5

Sample Name: 280-23606-b-2-c msd Acquired: 12/13/2011 20:37:03 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99619 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04848**	**3.6133**	**.98747**	**1.6721**	**1.9174**	**.04742**	F **1.9435**	**65.231**	**.09529**	**.46057**
Stddev	.00022	.0143	.01023	.0058	.0082	.00005	.0082	.009	.00038	.00250
%RSD	.45351	.39506	1.0358	.34515	.42976	.10626	.42252	.01351	.39828	.54338
#1	.04832	3.6032	.98023	1.6681	1.9232	.04739	1.9377	65.225	.09502	.45880
#2	.04863	3.6234	.99470	1.6762	1.9116	.04746	1.9493	65.238	.09555	.46234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19044**	**.23738**	**1.8926**	**63.656**	**1.0100**	**51.218**	**.48663**	**1.0253**	**447.45**	**.46940**
Stddev	.00083	.00103	.0054	.163	.0029	.043	.00029	.0050	.33	.00262
%RSD	.43842	.43438	.28413	.25578	.28239	.08402	.05967	.49219	.07441	.55745
#1	.18985	.23665	1.8964	63.771	1.0121	51.188	.48642	1.0218	447.69	.46755
#2	.19103	.23811	1.8888	63.541	1.0080	51.249	.48683	1.0289	447.22	.47125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **9.6923**	**.45214**	**4.7809**	**.48041**	**1.8752**	**15.406**	**32.969**	**1.8524**	**1.7188**	**.96695**
Stddev	.0519	.00307	.0006	.00264	.0204	.004	.008	.0062	.0034	.00578
%RSD	.53569	.67977	.01240	.55021	1.0901	.02346	.02346	.33324	.20028	.59792
#1	9.6555	.44997	4.7805	.47854	1.8607	15.404	32.964	1.8480	1.7213	.97103
#2	9.7290	.45431	4.7813	.48228	1.8896	15.409	32.975	1.8567	1.7164	.96286
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98136**	**1.7556**	**1.9914**	**.47529**	**.46710**	**.47451**
Stddev	.00044	.0114	.0004	.00020	.00059	.00324
%RSD	.04528	.64884	.02236	.04180	.12529	.68301
#1	.98105	1.7476	1.9917	.47543	.46669	.47681
#2	.98168	1.7637	1.9911	.47515	.46752	.47222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3735.5**	**43885.**	**5433.5**
Stddev	10.4	131.	.9
%RSD	.27927	.29930	.01640
#1	3742.9	43792.	5432.9
#2	3728.1	43978.	5434.2

Sample Name: CCVH-1169743 Acquired: 12/13/2011 20:39:16 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**50.012**	**-.00228**	**.00515**	**.00061**	**-.00016**	**.99315**	**.00145**	**-.00090**	**.00070**	**.00037**	**-.00121**	**49.569**
Stddev	.00045	.331	.00119	.00027	.00000	.00010	.00073	.00187	.00007	.00005	.00007	.00014	.174
%RSD	67.834	.66140	52.221	5.2855	.52928	66.008	.07327	129.48	8.1388	6.8269	18.162	11.881	.35176
#1	-.00098	50.246	-.00144	.00534	.00061	-.00023	.99367	.00277	-.00085	.00067	.00041	-.00111	49.693
#2	-.00035	49.778	-.00312	.00495	.00061	-.00008	.99264	.00012	-.00095	.00074	.00032	-.00131	49.446
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24343**	**.00071**	**-.00005**	**-.00152**	**-.00161**	**248.79**	**.00088**	**.00273**	**-.00023**	**4.9997**	**-.00093**	**.00273**	**.03078**
Stddev	.01870	.00071	.00178	.00002	.00007	1.53	.00020	.00008	.00199	.0041	.00057	.00059	.00895
%RSD	7.6804	100.50	3409.8	1.4874	4.0509	.61384	23.203	2.7834	860.89	.08221	61.979	21.488	29.086
#1	.23021	.00021	-.00131	-.00153	-.00165	249.87	.00102	.00278	-.00164	5.0026	-.00133	.00231	.02445
#2	.25665	.00121	.00121	-.00150	-.00156	247.71	.00073	.00267	.00118	4.9968	-.00052	.00314	.03711
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06587**	**.00202**	**.00043**	**4.9246**	**.00138**	**-.00296**	**10.189**	**-.00048**	**.00246**	**-.01322**
Stddev	.01916	.00006	.00003	.0152	.00026	.00080	.004	.00017	.00033	.00110
%RSD	29.086	2.9940	6.2900	.30802	19.090	27.227	.03905	35.927	13.588	8.3302
#1	.05232	.00198	.00041	4.9353	.00157	-.00353	10.186	-.00036	.00270	-.01244
#2	.07942	.00206	.00045	4.9138	.00119	-.00239	10.192	-.00060	.00223	-.01400
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3962.4**	**47449.**	**5510.7**
Stddev	17.0	14.	23.5
%RSD	.42978	.02979	.42673
#1	3974.5	47439.	5494.0
#2	3950.4	47459.	5527.3

Sample Name: CCV-1169927 Acquired: 12/13/2011 20:41:36 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49487**	**.51147**	**.99804**	**.49973**	**.49507**	**.49935**	**-.00014**	**4.9945**	**.49640**	**.50323**	**.50451**	**.50088**	**2.4454**
Stddev	.00271	.00390	.00191	.00012	.00306	.00114	.00052	.0034	.00148	.00001	.00017	.00188	.0006
%RSD	.54829	.76203	.19162	.02437	.61790	.22836	361.07	.06915	.29737	.00286	.03335	.37560	.02675
#1	.49679	.51423	.99669	.49964	.49291	.50016	-.00051	4.9920	.49744	.50324	.50439	.49955	2.4459
#2	.49296	.50872	.99940	.49981	.49723	.49854	.00022	4.9969	.49535	.50322	.50463	.50221	2.4450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.931**	**1.0106**	**19.709**	**.49847**	**.49950**	**5.1489**	**.50238**	**.98999**	**.99779**	**.05953**	**.99529**	**.98813**	**4.9357**
Stddev	.143	.0030	.030	.00010	.00026	.0046	.00031	.00219	.00065	.00458	.00300	.00273	.0581
%RSD	.28549	.29371	.15105	.02046	.05115	.08963	.06131	.22104	.06472	7.6957	.30133	.27637	1.1771
#1	49.830	1.0085	19.730	.49839	.49968	5.1521	.50260	.99154	.99825	.05629	.99317	.98620	4.8946
#2	50.032	1.0127	19.688	.49854	.49932	5.1456	.50216	.98844	.99733	.06277	.99741	.99007	4.9768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.562**	**1.0038**	**.50388**	**-.00173**	**.50357**	**1.0065**	**-.00017**	**.49838**	**.50332**	**.49617**
Stddev	.124	.0033	.00091	.00084	.00124	.0015	.00416	.00096	.00226	.00297
%RSD	1.1771	.32703	.18076	48.697	.24676	.15088	2425.6	.19268	.44999	.59925
#1	10.475	1.0015	.50324	-.00232	.50270	1.0055	.00277	.49905	.50493	.49407
#2	10.650	1.0062	.50453	-.00113	.50445	1.0076	-.00311	.49770	.50172	.49828
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4064.2**	**48505.**	**5598.4**
Stddev	1.5	66.	49.4
%RSD	.03757	.13646	.88211
#1	4065.2	48458.	5633.3
#2	4063.1	48552.	5563.5

Sample Name: CCB Acquired: 12/13/2011 20:43:47 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.00115**	**-.00148**	W **.00258**	**-.00013**	**.00005**	**-.00217**	**.00176**	**.00011**	**-.00002**	**.00005**	**.00020**
Stddev	.00014	.00087	.00191	.00032	.00005	.00009	.00322	.00038	.00011	.00024	.00007	.00000
%RSD	48.024	75.333	129.00	12.331	37.952	193.36	148.68	21.419	100.45	1492.7	132.57	.74120
#1	-.00019	-.00176	-.00013	.00236	-.00010	.00011	-.00444	.00203	.00003	-.00019	.00000	.00020
#2	-.00040	-.00054	-.00283	.00281	-.00017	-.00002	.00011	.00150	.00019	.00016	.00010	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00156								
Low Limit				-.00156								

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00117**	**.14480**	**.00145**	**.00206**	**.00010**	**.00057**	W **.14961**	**.00008**	**-.00070**	**-.00097**	**.07199**	**.00185**
Stddev	.00014	.02565	.00026	.00202	.00001	.00014	.01192	.00027	.00142	.00060	.00067	.00029
%RSD	11.611	17.715	17.923	97.775	14.674	24.869	7.9663	352.48	200.90	61.654	.92454	15.536
#1	.00127	.16294	.00127	.00349	.00011	.00067	.15803	.00027	-.00171	-.00055	.07246	.00165
#2	.00108	.12666	.00164	.00064	.00009	.00047	.14118	-.00012	.00030	-.00140	.07152	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							.09160					
Low Limit							-.09160					

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**-.01207**	**-.02582**	**.00031**	**.00003**	**-.00021**	**.00034**	**.00067**	**-.01048**	**-.00031**	**.00162**	**.00181**
Stddev	.00249	.00294	.00629	.00008	.00015	.00047	.00019	.00129	.01330	.00007	.00008	.00064
%RSD	309.59	24.358	24.358	24.692	466.75	230.14	55.325	193.24	126.83	22.869	4.7797	35.317
#1	.00257	-.00999	-.02137	.00025	.00014	-.00054	.00021	.00159	-.00108	-.00036	.00168	.00227
#2	-.00096	-.01414	-.03027	.00036	-.00007	.00013	.00047	-.00025	-.01989	-.00026	.00157	.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4032.7**	**49340.**	**5482.6**
Stddev	17.7	97.	68.2
%RSD	.43920	.19671	1.2436
#1	4020.1	49408.	5530.8
#2	4045.2	49271.	5434.4

Sample Name: CCVL1171013 Acquired: 12/13/2011 20:46:12 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00951**	**.10505**	**.01373**	**.10538**	**.00994**	**.00101**	**.11272**	**.20545**	**.00520**	**.01058**	**.01024**	**.01499**	**.12216**	**3.2058**
Stddev	.00067	.00049	.00089	.00142	.00002	.00007	.00043	.00165	.00011	.00013	.00005	.00025	.00704	.0175
%RSD	7.0015	.46224	6.4844	1.3501	.24722	6.8240	.38071	.80320	2.1558	1.2625	.51742	1.6769	5.7601	.54499
#1	.00904	.10539	.01310	.10639	.00996	.00096	.11302	.20429	.00528	.01068	.01028	.01481	.11718	3.1935
#2	.00998	.10470	.01436	.10438	.00992	.00106	.11241	.20662	.00512	.01049	.01020	.01516	.12714	3.2182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01217**	**.20979**	**.01047**	**.02030**	**1.1952**	**.04112**	**3.0891**	**.00946**	**.05445**	**.00959**	**.01346**	**.50212**	**1.0745**	**.10486**
Stddev	.00184	.00044	.00015	.00023	.0118	.00000	.0181	.00037	.00829	.00006	.00348	.00337	.0072	.00067
%RSD	15.103	.21038	1.4267	1.1307	.98752	.01082	.58628	3.8835	15.231	.60226	25.827	.67070	.67070	.63629
#1	.01087	.20948	.01036	.02046	1.1868	.04112	3.1019	.00972	.06032	.00963	.01592	.49974	1.0694	.10439
#2	.01347	.21011	.01058	.02014	1.2035	.04112	3.0763	.00920	.04859	.00955	.01100	.50450	1.0796	.10533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01029**	**.01432**	**.01073**	**.01781**	**.06823**	**.00970**	**.02278**	**.01673**
Stddev	.00007	.00016	.00002	.00010	.01853	.00021	.00012	.00154
%RSD	.71280	1.0898	.21997	.55493	27.166	2.2165	.50709	9.1850
#1	.01024	.01443	.01074	.01788	.08133	.00985	.02287	.01564
#2	.01035	.01421	.01071	.01774	.05512	.00955	.02270	.01782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4211.5**	**50607.**	**5672.0**
Stddev	24.0	163.	.6
%RSD	.57006	.32213	.01086
#1	4194.5	50722.	5671.6
#2	4228.4	50491.	5672.5

Sample Name: 280-23606-a-6-a Acquired: 12/13/2011 20:48:35 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99619 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	W **3.0851**	**.01669**	**.56392**	**.04523**	**.00020**	**-.00103**	**20.113**	**.00005**	**.00304**
Stddev	.00023	.0242	.00136	.00015	.00021	.00006	.00133	.038	.00001	.00004
%RSD	3016.4	.78346	8.1463	.02747	.46684	32.665	128.69	.19041	24.736	1.4744
#1	-.00017	3.1022	.01573	.56403	.04538	.00024	-.00197	20.140	.00004	.00301
#2	.00015	3.0680	.01765	.56381	.04508	.00015	-.00009	20.086	.00006	.00308
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		500.00								
Low Limit		3.2000								

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00509**	**.00525**	**2.4563**	**12.652**	**.03121**	**8.1598**	**.10462**	**.17042**	**358.17**	**.00815**
Stddev	.00027	.00014	.0177	.007	.00136	.0187	.00001	.00073	1.38	.00003
%RSD	5.3516	2.7469	.72246	.05416	4.3517	.22961	.00920	.43036	.38463	.39969
#1	.00489	.00515	2.4688	12.647	.03217	8.1466	.10461	.17094	359.14	.00813
#2	.00528	.00535	2.4437	12.657	.03025	8.1731	.10463	.16990	357.20	.00818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05498**	**.00146**	**14.766**	**.00331**	**.00146**	**7.7929**	**16.677**	**-.00101**	**.59994**	**.00164**
Stddev	.00206	.00016	.021	.00072	.00503	.0508	.109	.00047	.00317	.00038
%RSD	3.7446	11.279	.14345	21.784	345.41	.65140	.65140	46.939	.52895	23.344
#1	.05644	.00134	14.751	.00383	-.00210	7.8288	16.754	-.00134	.60218	.00192
#2	.05352	.00157	14.781	.00280	.00501	7.7570	16.600	-.00067	.59770	.00137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03919**	**.00025**	**-.03259**	**.01852**	**.01395**	**.00384**
Stddev	.00024	.00142	.01280	.00015	.00049	.00008
%RSD	.62250	559.74	39.289	.79119	3.4867	2.0744
#1	.03901	.00126	-.04164	.01862	.01361	.00389
#2	.03936	-.00075	-.02353	.01842	.01429	.00378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3814.3**	**44811.**	**5504.5**
Stddev	5.3	140.	13.8
%RSD	.13812	.31315	.25045
#1	3810.5	44911.	5494.8
#2	3818.0	44712.	5514.3

Sample Name: 280-23606-a-14-a Acquired: 12/13/2011 20:50:59 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99619 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**3.2042**	**.01582**	**.57187**	**.04570**	**.00021**	**.00076**	**20.334**	**.00014**	**.00293**
Stddev	.00010	.0087	.00019	.00151	.00038	.00001	.00163	.016	.00010	.00002
%RSD	15.880	.27208	1.2063	.26466	.82470	4.5789	213.40	.07675	68.570	.67194
#1	.00067	3.2104	.01596	.57294	.04597	.00022	.00192	20.345	.00021	.00291
#2	.00054	3.1981	.01569	.57080	.04543	.00021	-.00039	20.323	.00007	.00294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00496**	**.00481**	**2.3281**	**12.714**	**.03053**	**8.1564**	**.10395**	**.16329**	**362.56**	**.00753**
Stddev	.00002	.00008	.0114	.030	.00248	.0026	.00007	.00066	.73	.00005
%RSD	.35310	1.7641	.48958	.23235	8.1162	.03131	.06911	.40213	.20029	.67490
#1	.00495	.00475	2.3362	12.735	.03228	8.1582	.10401	.16375	363.07	.00750
#2	.00498	.00487	2.3200	12.693	.02878	8.1546	.10390	.16283	362.04	.00757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05113**	**.00124**	**14.252**	**.00382**	**.00288**	**8.1030**	**17.340**	**-.00042**	**.60705**	**-.00050**
Stddev	.00168	.00030	.061	.00183	.00105	.0276	.059	.00010	.00199	.00021
%RSD	3.2813	23.877	.42801	48.081	36.309	.34031	.34031	24.242	.32756	41.419
#1	.04994	.00145	14.295	.00511	.00214	8.1225	17.382	-.00049	.60846	-.00064
#2	.05231	.00103	14.209	.00252	.00362	8.0835	17.299	-.00034	.60564	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04732**	**.00041**	**-.01235**	**.01842**	**.01137**	**.00314**
Stddev	.00096	.00027	.00028	.00052	.00005	.00037
%RSD	2.0235	65.024	2.2704	2.8455	.45538	11.812
#1	.04664	.00060	-.01215	.01879	.01141	.00288
#2	.04800	.00022	-.01255	.01805	.01134	.00340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3842.8**	**45012.**	**5448.5**
Stddev	26.4	3.	17.5
%RSD	.68705	.00750	.32146
#1	3824.2	45009.	5436.1
#2	3861.5	45014.	5460.9

Sample Name: 280-23606-a-20-a Acquired: 12/13/2011 20:53:24 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99619 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00575**	**.03939**	**.00367**	**.38323**	**.06048**	**.00004**	**.00008**	**89.488**	**.00030**	**.00008**
Stddev	.00013	.00147	.00174	.00105	.00043	.00005	.00215	.273	.00004	.00028
%RSD	2.3283	3.7246	47.285	.27298	.70347	119.20	2615.0	.30478	12.115	375.54
#1	.00565	.03835	.00245	.38249	.06078	.00001	.00160	89.295	.00033	-.00012
#2	.00584	.04043	.00490	.38397	.06018	.00007	-.00144	89.681	.00027	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00119**	**.00111**	**.58021**	**17.780**	**.05498**	**47.056**	**.34218**	**.08551**	**119.44**	**.00275**
Stddev	.00026	.00037	.00449	.006	.00052	.020	.00045	.00012	.25	.00001
%RSD	22.185	33.359	.77372	.03380	.93776	.04257	.13077	.13597	.20667	.23395
#1	.00137	.00137	.57704	17.785	.05534	47.070	.34186	.08542	119.27	.00275
#2	.00100	.00085	.58339	17.776	.05461	47.041	.34249	.08559	119.62	.00275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00347**	**-.00003**	**102.76**	**-.00059**	**.00571**	**5.7603**	**12.327**	**-.00050**	**1.8502**	**-.00054**
Stddev	.00197	.00052	.37	.00143	.00643	.0210	.045	.00091	.0020	.00100
%RSD	56.672	1694.9	.36404	242.11	112.58	.36369	.36369	180.80	.10760	183.56
#1	.00208	-.00040	102.49	.00042	.00116	5.7455	12.295	-.00115	1.8517	.00016
#2	.00486	.00034	103.02	-.00160	.01025	5.7752	12.359	.00014	1.8488	-.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00189**	**.00047**	**-.00973**	**.00059**	**.00393**	**.00125**
Stddev	.00003	.00084	.02415	.00060	.00029	.00148
%RSD	1.6806	178.38	248.16	101.98	7.4806	118.79
#1	.00192	-.00012	.00734	.00016	.00413	.00229
#2	.00187	.00106	-.02680	.00101	.00372	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3856.4**	**46247.**	**5577.3**
Stddev	13.0	38.	5.2
%RSD	.33707	.08161	.09361
#1	3865.6	46274.	5573.6
#2	3847.2	46221.	5581.0

Sample Name: 280-23606-a-24-a Acquired: 12/13/2011 20:55:45 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99619 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**3.8435**	**.04218**	**.43802**	**.05524**	**.00018**	**.00179**	**17.674**	**.00022**	**.00312**
Stddev	.00019	.0254	.00049	.00105	.00043	.00004	.00149	.024	.00019	.00004
%RSD	26.787	.66038	1.1512	.23955	.77422	20.901	83.490	.13309	83.828	1.1961
#1	.00056	3.8255	.04253	.43728	.05554	.00015	.00073	17.691	.00036	.00309
#2	.00082	3.8614	.04184	.43876	.05494	.00021	.00284	17.658	.00009	.00314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01054**	**.00549**	**4.0168**	**15.668**	**.04431**	**7.2971**	**.07986**	**.18044**	**317.49**	**.01391**
Stddev	.00016	.00007	.0089	.050	.00060	.0166	.00012	.00033	1.81	.00032
%RSD	1.4912	1.2201	.22181	.32108	1.3500	.22744	.14848	.18074	.56883	2.2788
#1	.01043	.00554	4.0231	15.704	.04389	7.2853	.07977	.18068	318.77	.01368
#2	.01065	.00544	4.0105	15.633	.04473	7.3088	.07994	.18021	316.22	.01413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06257**	**.00318**	**17.239**	**.01075**	**-.00333**	**9.3677**	**20.047**	**-.00058**	**.47878**	**.00022**
Stddev	.00280	.00060	.028	.00024	.00284	.0422	.090	.00065	.00229	.00044
%RSD	4.4811	19.010	.16353	2.2661	85.272	.45008	.45008	112.58	.47744	203.12
#1	.06059	.00275	17.259	.01092	-.00534	9.3975	20.111	-.00012	.48040	-.00009
#2	.06455	.00360	17.219	.01057	-.00132	9.3378	19.983	-.00103	.47716	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11337**	**.00029**	**-.01679**	**.01860**	**.01876**	**.00993**
Stddev	.00256	.00002	.02687	.00006	.00003	.00010
%RSD	2.2573	8.1163	160.04	.33703	.18394	1.0334
#1	.11156	.00031	.00221	.01864	.01878	.00986
#2	.11518	.00027	-.03579	.01855	.01873	.01000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3823.1**	**45134.**	**5448.8**
Stddev	8.9	38.	14.9
%RSD	.23227	.08508	.27361
#1	3816.8	45106.	5438.3
#2	3829.4	45161.	5459.3

Sample Name: 280-23633-a-15-a Acquired: 12/13/2011 20:58:09 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99619 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00500**	**-.00030**	**.00322**	**.00047**	**.00003**	**.00085**	**.03112**	**.00006**	**.00031**
Stddev	.00005	.00020	.00086	.00041	.00022	.00010	.00007	.00122	.00013	.00004
%RSD	173.56	3.9139	290.62	12.744	46.047	328.95	8.2301	3.9216	235.15	11.821
#1	-.00001	.00514	-.00091	.00351	.00032	.00010	.00080	.03026	.00015	.00033
#2	.00006	.00487	.00031	.00293	.00063	-.00004	.00090	.03199	-.00004	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00013**	**1.3380**	**.15226**	**.00188**	**.00571**	**.00505**	**.00017**	**.29564**	**.00076**
Stddev	.00005	.00005	.0052	.01292	.00024	.00031	.00000	.00035	.01060	.00028
%RSD	15.419	41.500	.38852	8.4882	12.516	5.3949	.09631	200.47	3.5864	37.046
#1	.00030	.00009	1.3416	.16140	.00172	.00549	.00506	-.00007	.30313	.00056
#2	.00038	.00017	1.3343	.14312	.00205	.00593	.00505	.00042	.28814	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00034**	**.07322**	**-.00005**	**-.00291**	**.10459**	**.22383**	**.00031**	**.00013**	**-.00104**
Stddev	.00100	.00030	.00252	.00081	.00312	.00344	.00736	.00017	.00002	.00123
%RSD	405.65	87.818	3.4456	1580.1	107.18	3.2893	3.2893	54.021	18.307	118.54
#1	.00095	-.00013	.07500	-.00062	-.00071	.10216	.21862	.00019	.00015	-.00190
#2	-.00046	-.00056	.07143	.00052	-.00512	.10703	.22903	.00043	.00011	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00050**	**-.00908**	**-.00015**	**.00538**	**.00022**
Stddev	.00033	.00077	.01731	.00024	.00013	.00029
%RSD	440.18	152.83	190.56	159.92	2.4833	127.78
#1	-.00016	-.00004	-.02132	.00002	.00548	.00002
#2	.00031	.00105	.00316	-.00031	.00529	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4011.9**	**49461.**	**5569.9**
Stddev	7.7	71.	58.6
%RSD	.19231	.14309	1.0513
#1	4017.4	49411.	5528.5
#2	4006.5	49511.	5611.3

Sample Name: CCVH-1169743 Acquired: 12/13/2011 21:00:35 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**50.865**	**-.00374**	**.00319**	**.00029**	**-.00010**	**1.0180**	**.00060**	**-.00080**	**.00100**	**.00036**	**-.00100**	**50.608**
Stddev	.00031	.125	.00216	.00005	.00039	.00001	.0008	.00219	.00006	.00021	.00002	.00001	.168
%RSD	144.24	.24620	57.729	1.4845	136.48	9.5489	.07947	363.44	7.5148	21.263	5.1359	.58893	.33236
#1	.00000	50.953	-.00527	.00315	.00001	-.00011	1.0174	.00215	-.00076	.00085	.00035	-.00100	50.727
#2	-.00043	50.776	-.00221	.00322	.00056	-.00009	1.0185	-.00094	-.00085	.00115	.00038	-.00101	50.489
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13632**	**.00229**	**-.00506**	**-.00154**	**-.00186**	**253.16**	**.00089**	**.00096**	**-.00274**	**5.0710**	**-.00187**	**.00659**	**.01985**
Stddev	.00809	.00077	.00199	.00000	.00045	.48	.00009	.00291	.00068	.0213	.00123	.00488	.00677
%RSD	5.9368	33.824	39.294	.15168	24.176	.18788	10.645	302.48	24.781	.42073	65.477	74.040	34.109
#1	.14204	.00284	-.00365	-.00154	-.00218	253.50	.00082	-.00109	-.00226	5.0559	-.00101	.00314	.01506
#2	.13060	.00174	-.00646	-.00154	-.00154	252.82	.00096	.00302	-.00322	5.0861	-.00274	.01004	.02463
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04247**	**.00284**	**.00042**	**5.0057**	**.00111**	**-.00389**	**10.401**	**-.00020**	**.00199**	**-.01291**
Stddev	.01449	.00086	.00001	.0193	.00006	.00053	.040	.00059	.00003	.00060
%RSD	34.109	30.129	3.0497	.38544	4.9887	13.668	.38828	296.60	1.4473	4.6825
#1	.03223	.00345	.00043	4.9920	.00115	-.00426	10.372	-.00061	.00197	-.01248
#2	.05271	.00224	.00041	5.0193	.00107	-.00351	10.430	.00022	.00201	-.01334
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3941.5**	**47237.**	**5520.0**
Stddev	7.3	134.	2.8
%RSD	.18397	.28277	.05118
#1	3946.6	47332.	5522.0
#2	3936.3	47143.	5518.0

Sample Name: CCV-1169927 Acquired: 12/13/2011 21:02:56 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48760**	**.52246**	**1.0108**	**.50464**	**.49646**	**.50103**	**.00048**	**5.0011**	**.50453**	**.51175**	**.51175**	**.49636**	**2.4572**
Stddev	.00229	.00078	.0019	.00006	.00137	.00065	.00001	.0286	.00010	.00045	.00041	.00277	.0198
%RSD	.47029	.14883	.19276	.01207	.27686	.12879	2.3000	.57124	.02078	.08765	.07936	.55726	.80385
#1	.48922	.52191	1.0094	.50468	.49743	.50149	.00047	5.0213	.50460	.51206	.51204	.49832	2.4712
#2	.48598	.52301	1.0121	.50460	.49549	.50058	.00049	4.9809	.50446	.51143	.51147	.49441	2.4432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.055**	**1.0120**	**19.628**	**.49431**	**.50699**	**5.1688**	**.51111**	**1.0115**	**1.0087**	**.03662**	**1.0065**	**.99730**	**4.9351**
Stddev	.306	.0027	.141	.00253	.00061	.0421	.00045	.0007	.0049	.00445	.0020	.00204	.0127
%RSD	.61099	.26993	.71936	.51248	.12004	.81526	.08840	.06527	.48556	12.159	.20175	.20409	.25762
#1	50.271	1.0140	19.727	.49610	.50742	5.1985	.51143	1.0120	1.0052	.03347	1.0051	.99586	4.9441
#2	49.839	1.0101	19.528	.49252	.50656	5.1390	.51079	1.0110	1.0121	.03977	1.0080	.99874	4.9262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.561**	**1.0160**	**.50571**	**-.00218**	**.49887**	**1.0151**	**.00378**	**.49465**	**.49738**	**.49619**
Stddev	.027	.0042	.00168	.00058	.00283	.0052	.01421	.00099	.00188	.00212
%RSD	.25762	.40829	.33277	26.494	.56697	.50969	375.41	.19934	.37783	.42692
#1	10.580	1.0189	.50690	-.00259	.50087	1.0115	.01383	.49535	.49871	.49769
#2	10.542	1.0131	.50452	-.00177	.49687	1.0188	-.00626	.49396	.49605	.49469
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4028.4**	**48948.**	**5611.4**
Stddev	12.9	292.	45.4
%RSD	.31921	.59590	.80972
#1	4037.5	48742.	5579.2
#2	4019.3	49154.	5643.5

Sample Name: CCB Acquired: 12/13/2011 21:05:08 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00339**	**-.00015**	**.00154**	**-.00003**	**.00002**	**.00228**	**-.00150**	**.00016**	**.00015**	**.00001**	**-.00018**
Stddev	.00006	.00073	.00026	.00055	.00032	.00002	.00020	.00113	.00003	.00004	.00001	.00014
%RSD	23.582	21.495	173.35	35.647	1287.6	127.56	8.8982	75.591	20.106	23.881	43.163	78.025
#1	-.00031	.00288	-.00034	.00193	-.00025	.00000	.00213	-.00230	.00014	.00013	.00002	-.00028
#2	-.00022	.00391	.00003	.00115	.00020	.00003	.00242	-.00070	.00018	.00018	.00001	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**.12974**	**.00110**	**.00158**	**.00004**	**.00038**	W **.13345**	**-.00006**	**.00121**	**.00108**	**.04114**	**.00135**
Stddev	.00021	.00417	.00027	.00063	.00001	.00050	.01487	.00009	.00033	.00008	.00081	.00076
%RSD	11.034	3.2179	24.351	39.893	36.648	131.04	11.144	152.39	27.293	7.7195	1.9637	56.029
#1	.00173	.12679	.00129	.00114	.00003	.00003	.12293	-.00012	.00098	.00114	.04171	.00081
#2	.00202	.13269	.00091	.00203	.00005	.00073	.14396	.00000	.00145	.00102	.04057	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							.09160					
Low Limit							-.09160					

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00244**	**.00149**	**.00318**	**.00013**	**.00007**	**.00074**	**.00016**	**.00016**	**-.01522**	**-.00021**	**.00151**	**-.00039**
Stddev	.00233	.00442	.00947	.00027	.00001	.00068	.00014	.00023	.01662	.00001	.00009	.00084
%RSD	95.667	297.90	297.90	200.66	7.1112	91.311	83.270	142.03	109.23	5.9179	5.8345	217.51
#1	.00079	-.00164	-.00352	-.00006	.00008	.00026	.00007	.00000	-.00346	-.00020	.00157	.00021
#2	.00409	.00461	.00987	.00032	.00007	.00122	.00026	.00032	-.02697	-.00022	.00145	-.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4019.1**	**49041.**	**5485.7**
Stddev	13.1	215.	28.1
%RSD	.32626	.43935	.51152
#1	4028.4	48889.	5505.6
#2	4009.9	49194.	5465.9

Sample Name: CCVL1171013 Acquired: 12/13/2011 21:07:34 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01010**	**.10814**	**.01438**	**.10942**	**.01016**	**.00102**	**.11453**	**.20751**	**.00527**	**.01094**	**.01063**	**.01564**	**.10761**	**3.2664**
Stddev	.00036	.00100	.00221	.00062	.00025	.00003	.00136	.00144	.00005	.00015	.00027	.00009	.00094	.0486
%RSD	3.5784	.92200	15.361	.56887	2.4220	2.7913	1.1861	.69578	.97347	1.3824	2.5520	.59055	.87026	1.4878
#1	.01035	.10744	.01282	.10898	.00998	.00100	.11357	.20853	.00524	.01083	.01044	.01557	.10827	3.3007
#2	.00984	.10885	.01594	.10986	.01033	.00104	.11549	.20649	.00531	.01104	.01083	.01570	.10695	3.2320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01241**	**.21069**	**.01060**	**.02080**	**1.1894**	**.04235**	**3.1937**	**.00948**	**.03869**	**.00949**	**.01377**	**.50734**	**1.0857**	**.10781**
Stddev	.00157	.00182	.00007	.00003	.0021	.00032	.0133	.00061	.00134	.00023	.00084	.00880	.0188	.00057
%RSD	12.682	.86519	.63339	.13866	.17215	.75084	.41522	6.4360	3.4672	2.4352	6.0851	1.7349	1.7349	.53202
#1	.01352	.20940	.01055	.02078	1.1908	.04257	3.1843	.00905	.03964	.00932	.01436	.51357	1.0990	.10741
#2	.01130	.21198	.01064	.02082	1.1879	.04212	3.2031	.00991	.03774	.00965	.01318	.50112	1.0724	.10822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01054**	**.01477**	**.01068**	**.01795**	**.04860**	**.00948**	**.02263**	**.01668**
Stddev	.00009	.00185	.00002	.00023	.00202	.00049	.00016	.00039
%RSD	.82575	12.526	.18330	1.3058	4.1553	5.1219	.71491	2.3407
#1	.01048	.01608	.01070	.01812	.04717	.00982	.02251	.01641
#2	.01060	.01346	.01067	.01779	.05002	.00914	.02274	.01696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4191.5**	**51056.**	**5772.1**
Stddev	27.7	88.	50.0
%RSD	.66011	.17187	.86618
#1	4211.0	51118.	5807.4
#2	4171.9	50994.	5736.7

Sample Name: mb 280-99644/1-a Acquired: 12/13/2011 21:09:57 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00015**	**-.00109**	**.00081**	**.00013**	**-.00001**	**.00161**	**.00558**	**.00007**	**-.00006**
Stddev	.00042	.00355	.00077	.00038	.00002	.00001	.00020	.00214	.00007	.00008
%RSD	139.75	2355.6	70.817	47.349	17.419	103.80	12.237	38.349	101.98	135.93
#1	.00060	.00266	-.00054	.00054	.00011	-.00001	.00147	.00709	.00002	-.00012
#2	.00000	-.00236	-.00163	.00108	.00015	.00000	.00175	.00407	.00012	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00001**	**.00241**	**.10684**	**.00069**	**.00126**	**.00014**	**-.00001**	**.11558**	**-.00001**
Stddev	.00002	.00023	.00072	.01748	.00329	.00189	.00001	.00008	.00062	.00010
%RSD	57.348	2758.5	29.955	16.365	478.92	149.87	9.7193	1147.9	.53914	1903.4
#1	.00002	-.00017	.00190	.09448	-.00164	-.00008	.00013	-.00006	.11514	-.00008
#2	.00005	.00015	.00293	.11920	.00301	.00260	.00015	.00005	.11602	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00038**	F **.03672**	**-.00165**	**.00109**	W **-.00775**	W **-.01659**	**-.00004**	**.00002**	**-.00077**
Stddev	.00035	.00004	.00158	.00150	.00395	.00170	.00363	.00027	.00003	.00044
%RSD	33.454	9.8943	4.3020	91.053	362.13	21.889	21.889	672.97	161.83	56.492
#1	.00128	.00035	.03560	-.00271	-.00170	-.00655	-.01402	.00015	.00005	-.00046
#2	.00079	.00040	.03783	-.00059	.00388	-.00895	-.01916	-.00023	.00000	-.00108
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			.01000			.00500	.00500			
Low Limit			-.01000			-.00500	-.00500			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00008**	**-.00693**	**-.00036**	**.00279**	**.00071**
Stddev	.00017	.00092	.02000	.00010	.00022	.00228
%RSD	180.84	1108.0	288.67	29.168	7.8378	319.74
#1	.00021	.00057	-.02107	-.00028	.00294	-.00090
#2	-.00003	-.00073	.00722	-.00043	.00263	.00232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4127.7**	**50414.**	**5690.6**
Stddev	9.8	77.	5.8
%RSD	.23703	.15237	.10253
#1	4134.6	50468.	5694.7
#2	4120.7	50359.	5686.5

Sample Name: lcs 280-99644/2-a Acquired: 12/13/2011 21:12:23 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04949**	**1.9348**	**.99699**	**.98787**	**1.9258**	**.04830**	**2.0472**	**46.934**	**.09824**	**.48502**
Stddev	.00055	.0040	.00880	.00436	.0024	.00005	.0114	.116	.00036	.00332
%RSD	1.1202	.20803	.88281	.44141	.12655	.11376	.55700	.24667	.36913	.68400
#1	.04910	1.9319	.99077	.98479	1.9241	.04827	2.0392	47.016	.09798	.48268
#2	.04988	1.9376	1.0032	.99095	1.9275	.04834	2.0553	46.853	.09850	.48737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19793**	**.24549**	**.93536**	**48.304**	**.97538**	**47.886**	**.48618**	**.98411**	**50.787**	**.49034**
Stddev	.00140	.00043	.00196	.009	.00449	.192	.00062	.00679	.020	.00313
%RSD	.70607	.17712	.20976	.01832	.46083	.40124	.12730	.68985	.03970	.63858
#1	.19695	.24518	.93397	48.310	.97220	47.750	.48575	.97931	50.802	.48813
#2	.19892	.24580	.93674	48.298	.97856	48.022	.48662	.98891	50.773	.49256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9939**	**.49101**	**.02959**	**.48934**	**1.9455**	**9.4702**	F **20.266**	**1.9604**	**.98112**	**1.0009**
Stddev	.0280	.00246	.00991	.00087	.0018	.0226	.048	.0111	.00147	.0030
%RSD	.28061	.50117	33.476	.17757	.09451	.23862	.23862	.56664	.14990	.29764
#1	9.9740	.48927	.03660	.48873	1.9442	9.4542	20.232	1.9526	.98008	.99884
#2	10.014	.49275	.02259	.48995	1.9468	9.4862	20.300	1.9683	.98216	1.0031
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							24.610			
Low Limit							20.100			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99799**	**1.9487**	**2.1102**	**.48801**	**.48016**	**.48379**
Stddev	.00211	.0031	.0006	.00183	.00130	.00074
%RSD	.21127	.15986	.03028	.37423	.27064	.15237
#1	.99650	1.9465	2.1098	.48672	.47924	.48327
#2	.99948	1.9509	2.1107	.48930	.48108	.48432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3950.1**	**47323.**	**5685.6**
Stddev	15.8	103.	6.8
%RSD	.40063	.21783	.11940
#1	3961.3	47396.	5690.4
#2	3938.9	47250.	5680.8

Sample Name: 280-23646-a-1-a Acquired: 12/13/2011 21:14:31 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.24239**	**.00257**	**1.1947**	**1.0377**	**.00007**	**.00322**	**196.22**	**.00051**	**.00176**
Stddev	.00055	.00143	.00153	.0030	.0014	.00001	.00066	.80	.00004	.00022
%RSD	66.507	.58833	59.374	.24808	.13320	16.867	20.568	.40895	8.3708	12.739
#1	-.00122	.24340	.00365	1.1926	1.0387	.00006	.00369	196.79	.00054	.00192
#2	-.00044	.24138	.00149	1.1968	1.0368	.00007	.00275	195.65	.00048	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.00095**	**11.202**	**19.021**	**.07045**	**141.24**	**.63482**	**.00105**	W **1344.3**	**.00442**
Stddev	.00016	.00021	.051	.066	.00060	.15	.00002	.00018	3.9	.00003
%RSD	19.954	21.664	.45558	.34766	.84830	.10469	.00318	17.367	.29273	.61487
#1	.00071	.00081	11.238	18.974	.07087	141.14	.63480	.00092	1347.1	.00444
#2	.00094	.00110	11.166	19.067	.07002	141.35	.63483	.00118	1341.6	.00440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **2.1130**	**-.00005**	**10.093**	**-.00231**	**.00566**	**24.122**	**51.622**	**-.00041**	**1.7637**	**-.00154**
Stddev	.0029	.00066	.030	.00198	.00277	.084	.180	.00148	.0065	.00003
%RSD	.13981	1389.2	.29540	85.750	48.831	.34853	.34853	361.19	.36965	1.7512
#1	2.1109	.00042	10.072	-.00091	.00762	24.182	51.749	.00064	1.7683	-.00156
#2	2.1151	-.00052	10.114	-.00370	.00371	24.063	51.495	-.00145	1.7591	-.00152
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00868**	**.00086**	**-.02837**	**.00210**	**.00551**	**.00246**
Stddev	.00017	.00193	.01030	.00089	.00025	.00003
%RSD	2.0041	223.85	36.311	42.431	4.4545	1.0667
#1	.00880	-.00050	-.02109	.00273	.00568	.00244
#2	.00856	.00223	-.03566	.00147	.00534	.00247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3548.8**	**42041.**	**5457.2**
Stddev	6.9	123.	13.6
%RSD	.19320	.29344	.25010
#1	3553.6	42128.	5447.5
#2	3543.9	41953.	5466.9

Sample Name: 280-23646-a-2-c Acquired: 12/13/2011 21:16:57 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00099**	**.00007**	**.00190**	**.00006**	**.00006**	**-.00046**	**.01513**	**.00006**	**.00003**
Stddev	.00004	.00065	.00001	.00044	.00007	.00005	.00092	.00160	.00013	.00010
%RSD	117.64	65.787	9.4801	23.161	118.05	80.446	200.76	10.589	218.66	325.14
#1	-.00006	-.00053	.00007	.00221	.00001	.00009	-.00110	.01626	.00015	-.00004
#2	-.00001	-.00145	.00008	.00159	.00010	.00003	.00019	.01400	-.00003	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**-.00009**	**.02081**	**.23038**	**.00101**	**.00519**	**.00043**	**.00013**	**.44519**	**-.00025**
Stddev	.00011	.00013	.00030	.01655	.00034	.00100	.00002	.00036	.03166	.00003
%RSD	18.004	140.78	1.4505	7.1822	34.027	19.308	3.7017	283.79	7.1111	11.983
#1	.00066	-.00018	.02103	.24208	.00077	.00590	.00044	.00038	.46758	-.00027
#2	.00051	.00000	.02060	.21868	.00125	.00448	.00042	-.00013	.42281	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00019**	**.03268**	**-.00005**	**-.00030**	**.01901**	**.04068**	**-.00031**	**.00012**	**.00056**
Stddev	.00118	.00031	.00269	.00158	.00401	.01556	.03330	.00046	.00005	.00049
%RSD	8721.7	162.99	8.2453	3373.2	1321.3	81.859	81.859	147.85	40.547	87.759
#1	.00085	.00003	.03077	-.00117	.00253	.00801	.01713	-.00063	.00015	.00021
#2	-.00082	-.00041	.03458	.00107	-.00314	.03001	.06423	.00001	.00009	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00074**	**-.01780**	**-.00033**	**.00259**	**.00051**
Stddev	.00005	.00059	.02577	.00011	.00039	.00057
%RSD	18.940	80.288	144.79	32.619	14.995	111.95
#1	.00022	.00116	.00042	-.00040	.00286	.00091
#2	.00028	.00032	-.03602	-.00025	.00232	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4125.2**	**50630.**	**5684.0**
Stddev	31.5	112.	45.3
%RSD	.76398	.22203	.79622
#1	4103.0	50551.	5716.0
#2	4147.5	50710.	5652.0

Sample Name: 280-23646-a-3-c Acquired: 12/13/2011 21:19:23 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.02870**	**.00141**	**.42733**	**.50355**	**.00003**	**.00095**	**379.79**	**.00050**	**.01149**
Stddev	.00003	.00189	.00277	.00063	.00271	.00003	.00350	2.78	.00006	.00034
%RSD	3.1081	6.5985	196.56	.14636	.53833	97.606	367.97	.73136	12.920	2.9638
#1	-.00097	.03004	.00337	.42689	.50163	.00001	.00343	381.76	.00054	.01174
#2	-.00092	.02736	-.00055	.42778	.50546	.00005	-.00153	377.83	.00045	.01125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**.00202**	**10.457**	**10.601**	**.04882**	**150.81**	**5.8403**	**.00153**	W **879.07**	**.10645**
Stddev	.00022	.00015	.071	.088	.00037	3.64	.0541	.00023	1.95	.00051
%RSD	13.467	7.3817	.67663	.83245	.75029	2.4130	.92583	15.181	.22188	.48092
#1	.00181	.00191	10.407	10.539	.04908	153.39	5.8785	.00170	877.69	.10681
#2	.00149	.00212	10.507	10.664	.04856	148.24	5.8021	.00137	880.45	.10609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41611**	**.00014**	**80.695**	**-.00526**	**.00165**	**15.598**	**33.380**	**-.00095**	**1.7794**	**-.00055**
Stddev	.00149	.00152	.239	.00057	.00191	.066	.141	.00042	.0067	.00232
%RSD	.35740	1104.4	.29656	10.773	115.81	.42308	.42308	43.759	.37554	418.20
#1	.41717	.00121	80.865	-.00486	.00030	15.551	33.280	-.00125	1.7747	.00109
#2	.41506	-.00094	80.526	-.00566	.00299	15.645	33.480	-.00066	1.7841	-.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00363**	**.00281**	**-.04180**	**.00044**	**.00526**	**.00147**
Stddev	.00062	.00104	.03593	.00013	.00011	.00062
%RSD	17.028	37.165	85.957	29.876	2.0328	42.116
#1	.00407	.00207	-.01639	.00053	.00533	.00103
#2	.00319	.00355	-.06721	.00035	.00518	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3535.0**	**41047.**	**5400.2**
Stddev	13.3	686.	45.3
%RSD	.37741	1.6712	.83898
#1	3525.6	40562.	5432.2
#2	3544.5	41532.	5368.2

Sample Name: 280-23646-a-3-cSD@5 Acquired: 12/13/2011 21:22:01 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.01619**	**.00163**	**.08766**	**.10368**	**.00001**	**.00239**	**80.609**	**.00022**	**.00243**
Stddev	.00027	.00314	.00327	.00067	.00055	.00002	.00191	.447	.00011	.00003
%RSD	60.340	19.398	200.46	.75940	.52881	258.83	79.830	.55431	49.735	1.2419
#1	-.00065	.01841	.00395	.08813	.10330	-.00001	.00104	80.293	.00029	.00241
#2	-.00026	.01397	-.00068	.08719	.10407	.00002	.00374	80.925	.00014	.00245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**.00071**	**2.2109**	**2.2396**	**.01123**	**30.024**	**1.2241**	**.00020**	**179.56**	**.02284**
Stddev	.00012	.00019	.0133	.0142	.00008	.015	.0001	.00023	1.30	.00010
%RSD	16.859	27.150	.60192	.63486	.70742	.05050	.01046	114.73	.72578	.44873
#1	.00065	.00085	2.2015	2.2296	.01129	30.034	1.2240	.00004	178.64	.02277
#2	.00083	.00058	2.2203	2.2497	.01118	30.013	1.2242	.00037	180.48	.02291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08603**	**-.00068**	**15.553**	**-.00211**	**.00101**	**3.1744**	**6.7932**	**-.00004**	**.36437**	**-.00208**
Stddev	.00011	.00066	.038	.00057	.00301	.0010	.0021	.00143	.00174	.00005
%RSD	.12250	97.596	.24398	27.209	298.96	.03091	.03091	3247.1	.47692	2.4227
#1	.08596	-.00021	15.580	-.00171	.00313	3.1751	6.7947	.00097	.36314	-.00212
#2	.08611	-.00115	15.527	-.00252	-.00112	3.1737	6.7917	-.00105	.36559	-.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**-.00005**	**-.00333**	**.00019**	**.00372**	**.00205**
Stddev	.00021	.00063	.00128	.00020	.00007	.00139
%RSD	17.011	1333.0	38.352	105.89	1.8415	67.724
#1	.00139	-.00049	-.00423	.00033	.00377	.00107
#2	.00109	.00040	-.00243	.00005	.00367	.00303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3808.1**	**45572.**	**5495.8**
Stddev	4.2	48.	6.1
%RSD	.11063	.10434	.11075
#1	3811.1	45606.	5491.5
#2	3805.1	45538.	5500.2

Sample Name: 280-23646-a-3-d ms Acquired: 12/13/2011 21:24:23 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05286**	**1.8771**	**1.0441**	**1.3961**	**2.4333**	**.04784**	F **2.0927**	**409.42**	**.10218**	**.47699**
Stddev	.00035	.0065	.0013	.0007	.0096	.00003	.0042	2.39	.00019	.00109
%RSD	.67000	.34658	.12748	.04734	.39385	.06740	.20275	.58488	.18494	.22917
#1	.05261	1.8817	1.0451	1.3956	2.4265	.04787	2.0957	407.73	.10231	.47777
#2	.05311	1.8725	1.0432	1.3965	2.4401	.04782	2.0897	411.11	.10204	.47622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19539**	**.25177**	**11.040**	**60.584**	**1.0618**	**189.42**	**5.9750**	**.98498**	W **904.47**	**.57056**
Stddev	.00050	.00089	.057	.192	.0036	3.19	.0263	.00328	1.53	.00198
%RSD	.25425	.35311	.51939	.31622	.34285	1.6833	.44063	.33282	.16970	.34750
#1	.19574	.25114	10.999	60.449	1.0592	191.68	5.9936	.98730	903.39	.57196
#2	.19503	.25240	11.080	60.719	1.0644	187.17	5.9564	.98266	905.56	.56916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **11.005**	**.46143**	**77.710**	**.50507**	**2.0303**	**24.496**	**52.422**	**1.8888**	**2.7092**	**1.0025**
Stddev	.025	.00256	.190	.00134	.0061	.043	.091	.0039	.0061	.0017
%RSD	.22961	.55581	.24391	.26553	.30059	.17416	.17416	.20574	.22510	.16459
#1	11.023	.46325	77.576	.50602	2.0346	24.526	52.486	1.8915	2.7048	1.0014
#2	10.988	.45962	77.844	.50412	2.0259	24.466	52.357	1.8860	2.7135	1.0037
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0068**	**1.7389**	**2.0513**	**.48783**	**.47128**	**.48743**
Stddev	.0016	.0020	.0081	.00105	.00405	.00143
%RSD	.16109	.11483	.39477	.21575	.86019	.29360
#1	1.0079	1.7403	2.0570	.48858	.47415	.48642
#2	1.0056	1.7375	2.0456	.48709	.46842	.48844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3515.7**	**41323.**	**5315.4**
Stddev	8.1	200.	10.9
%RSD	.22986	.48484	.20439
#1	3510.0	41182.	5323.1
#2	3521.5	41465.	5307.7

Sample Name: 280-23646-a-3-e msd Acquired: 12/13/2011 21:26:58 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05425**	**1.8970**	**1.0591**	**1.4059**	**2.4514**	**.04807**	F **2.1190**	**410.00**	**.10350**	**.48355**
Stddev	.00041	.0126	.0028	.0037	.0007	.00012	.0036	.52	.00009	.00121
%RSD	.75485	.66321	.26098	.26677	.02901	.24468	.16836	.12680	.08674	.24940
#1	.05396	1.8881	1.0571	1.4032	2.4519	.04815	2.1164	409.63	.10343	.48270
#2	.05454	1.9059	1.0610	1.4085	2.4509	.04799	2.1215	410.37	.10356	.48441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19784**	**.25532**	**11.147**	**60.701**	**1.0699**	**191.25**	**6.0071**	**.99074**	W **910.14**	**.57818**
Stddev	.00048	.00062	.018	.155	.0038	.44	.0006	.00128	.96	.00256
%RSD	.24030	.24265	.16297	.25467	.35739	.23045	.01007	.12913	.10534	.44347
#1	.19751	.25488	11.160	60.810	1.0726	191.56	6.0075	.98984	910.82	.57637
#2	.19818	.25576	11.134	60.592	1.0672	190.94	6.0067	.99165	909.46	.57999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **11.139**	**.46447**	**78.557**	**.50743**	**2.0494**	**24.570**	**52.581**	**1.9004**	**2.7224**	**1.0074**
Stddev	.028	.00433	.082	.00045	.0056	.041	.088	.0144	.0064	.0005
%RSD	.25274	.93161	.10470	.08909	.27278	.16711	.16711	.75903	.23671	.05049
#1	11.120	.46141	78.499	.50711	2.0455	24.600	52.643	1.8902	2.7269	1.0070
#2	11.159	.46753	78.615	.50775	2.0534	24.541	52.519	1.9106	2.7178	1.0078
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0040**	**1.7498**	**2.0287**	**.49149**	**.47149**	**.48804**
Stddev	.0004	.0029	.0442	.00214	.00310	.00247
%RSD	.04112	.16757	2.1799	.43512	.65757	.50663
#1	1.0037	1.7478	2.0599	.49300	.47368	.48979
#2	1.0043	1.7519	1.9974	.48998	.46929	.48629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3479.1**	**41229.**	**5341.1**
Stddev	14.6	46.	7.1
%RSD	.41828	.11106	.13363
#1	3489.4	41196.	5346.1
#2	3468.8	41261.	5336.0

Sample Name: CCVH-1169743 Acquired: 12/13/2011 21:29:28 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**49.715**	**-.00093**	**.00494**	**.00108**	**-.00007**	**1.0029**	**.12556**	**-.00076**	**.00082**	**.00036**	**-.00117**	**49.470**
Stddev	.00049	.064	.00005	.00002	.00119	.00008	.0016	.12617	.00009	.00023	.00002	.00026	.285
%RSD	146.98	.12897	5.8270	.47730	109.88	106.22	.16101	100.49	11.384	28.364	5.4464	22.563	.57614
#1	-.00068	49.670	-.00089	.00496	.00192	-.00002	1.0018	.21477	-.00070	.00099	.00035	-.00099	49.269
#2	.00001	49.761	-.00096	.00492	.00024	-.00013	1.0040	.03634	-.00082	.00066	.00037	-.00136	49.672
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22156**	**.00236**	**.00878**	**-.00107**	**-.00123**	**248.98**	**.00086**	**.00762**	**-.00203**	**5.0322**	**-.00175**	**.00346**	**.02927**
Stddev	.07412	.00088	.00161	.00008	.00008	.19	.00023	.00145	.00150	.0100	.00033	.00288	.00504
%RSD	33.451	37.422	18.334	7.0968	6.5007	.07650	27.052	19.051	74.232	.19853	18.964	83.225	17.227
#1	.27397	.00298	.00992	-.00102	-.00128	248.85	.00103	.00864	-.00309	5.0393	-.00152	.00142	.03284
#2	.16916	.00173	.00764	-.00113	-.00117	249.12	.00070	.00659	-.00096	5.0252	-.00199	.00549	.02571
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06265**	**.00186**	**.00118**	**4.9208**	**.00167**	**-.00417**	**10.204**	**-.00068**	**.00193**	**-.01188**
Stddev	.01079	.00021	.00080	.0391	.00038	.00101	.079	.00061	.00015	.00161
%RSD	17.227	11.145	68.020	.79411	22.442	24.129	.77721	89.509	7.9882	13.532
#1	.07028	.00171	.00175	4.8931	.00141	-.00346	10.147	-.00112	.00204	-.01074
#2	.05502	.00200	.00061	4.9484	.00194	-.00488	10.260	-.00025	.00182	-.01301
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3918.0**	**47056.**	**5515.5**
Stddev	16.9	304.	9.2
%RSD	.43018	.64583	.16760
#1	3930.0	47270.	5522.0
#2	3906.1	46841.	5508.9

Sample Name: CCV-1169927 Acquired: 12/13/2011 21:31:48 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49264**	**.52124**	**1.0078**	**.50282**	**.49516**	**.49711**	**.00149**	**5.0343**	**.50042**	**.50759**	**.50843**	**.49938**	**2.4472**
Stddev	.00250	.00406	.0083	.00058	.00061	.00092	.00015	.0505	.00129	.00012	.00035	.00320	.0159
%RSD	.50761	.77801	.81910	.11529	.12243	.18409	10.099	1.0032	.25869	.02397	.06870	.64132	.65148
#1	.49441	.52411	1.0137	.50241	.49559	.49776	.00159	4.9985	.49950	.50750	.50868	.50165	2.4359
#2	.49087	.51837	1.0020	.50323	.49473	.49647	.00138	5.0700	.50133	.50767	.50818	.49712	2.4585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.974**	**1.0121**	**19.814**	**.49873**	**.50338**	**5.3776**	**.50756**	**1.0062**	**1.0045**	**.02278**	**.99929**	**.99136**	**4.9220**
Stddev	.045	.0038	.001	.00029	.00001	.2088	.00045	.0050	.0038	.00281	.00224	.00078	.0060
%RSD	.08940	.37637	.00515	.05763	.00286	3.8835	.08899	.50217	.38252	12.314	.22466	.07892	.12202
#1	50.006	1.0094	19.813	.49893	.50337	5.2300	.50788	1.0098	1.0072	.02080	1.0009	.99081	4.9177
#2	49.943	1.0148	19.814	.49852	.50339	5.5253	.50724	1.0026	1.0018	.02477	.99770	.99192	4.9262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.533**	**1.0078**	**.50339**	**-.00117**	**.50318**	**1.0076**	**.00910**	**.49784**	**.50296**	**.49313**
Stddev	.013	.0011	.00058	.00015	.00101	.0018	.01552	.00130	.00129	.00150
%RSD	.12202	.10611	.11459	12.502	.20103	.17673	170.47	.26195	.25661	.30480
#1	10.524	1.0071	.50298	-.00107	.50247	1.0089	-.00187	.49876	.50205	.49420
#2	10.542	1.0086	.50380	-.00128	.50390	1.0064	.02008	.49692	.50387	.49207
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4001.2**	**48002.**	**5542.4**
Stddev	11.2	167.	1.1
%RSD	.27920	.34795	.01978
#1	3993.3	48120.	5543.2
#2	4009.1	47884.	5541.7

Sample Name: CCB Acquired: 12/13/2011 21:33:59 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00086**	**.00051**	W **.00214**	**-.00006**	**.00004**	**-.00031**	**.02097**	**.00004**	**.00003**	**.00008**	**.00016**
Stddev	.00045	.00006	.00084	.00028	.00011	.00004	.00089	.00103	.00011	.00000	.00010	.00000
%RSD	94.310	6.6178	163.81	13.100	176.55	92.384	283.53	4.9061	285.54	9.5378	127.01	.50037
#1	.00080	.00082	.00111	.00233	.00002	.00007	.00031	.02169	.00012	.00004	.00014	.00017
#2	.00016	.00090	-.00008	.00194	-.00014	.00001	-.00094	.02024	-.00004	.00003	.00001	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00156								
Low Limit				-.00156								

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00185**	**.12035**	**.00010**	F **.06305**	F **.00222**	**.00034**	F **.20724**	**-.00019**	**.00171**	**-.00050**	**.02825**	**.00080**
Stddev	.00043	.03156	.00081	.09098	.00308	.00014	.00471	.00000	.00052	.00068	.00364	.00156
%RSD	23.508	26.222	779.36	144.30	138.72	40.492	2.2709	2.5929	30.620	137.39	12.899	195.71
#1	.00215	.14266	-.00047	.12739	.00440	.00025	.21057	-.00018	.00134	-.00001	.03083	-.00031
#2	.00154	.09803	.00067	-.00128	.00004	.00044	.20391	-.00019	.00208	-.00098	.02567	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.02140	.00051		.18300					
Low Limit				-.02140	-.00051		-.18320					

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00219**	**-.00518**	**-.01109**	**.00027**	**.00020**	**.00078**	W **.00077**	**.00046**	**.00274**	**.00003**	**.00154**	**.00122**
Stddev	.00018	.00327	.00699	.00017	.00008	.00263	.00105	.00079	.00727	.00049	.00029	.00077
%RSD	8.3166	63.042	63.042	62.153	39.760	336.59	136.11	172.94	265.77	1613.2	18.941	62.860
#1	.00232	-.00287	-.00615	.00015	.00025	.00264	.00152	.00102	.00788	.00038	.00175	.00176
#2	.00206	-.00749	-.01603	.00039	.00014	-.00108	.00003	-.00010	-.00241	-.00032	.00134	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							.00060					
Low Limit							-.00060					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3976.5**	**48614.**	**5417.2**
Stddev	1.9	392.	2.4
%RSD	.04661	.80699	.04363
#1	3975.1	48337.	5415.5
#2	3977.8	48892.	5418.9

Sample Name: CCVL1171013 Acquired: 12/13/2011 21:36:26 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01061**	**.11300**	**.01461**	**.11021**	**.01023**	**.00104**	**.11473**	**.20671**	**.00520**	**.01113**	**.01105**	**.01592**	**.11329**	**3.2903**
Stddev	.00008	.00137	.00238	.00004	.00047	.00006	.00286	.00328	.00004	.00004	.00003	.00035	.00104	.0433
%RSD	.75817	1.2150	16.300	.03659	4.5660	6.1629	2.4961	1.5868	.83858	.37779	.26555	2.2026	.92135	1.3167
#1	.01067	.11203	.01293	.11023	.00990	.00099	.11270	.20439	.00517	.01116	.01107	.01567	.11403	3.2597
#2	.01055	.11397	.01630	.11018	.01056	.00108	.11675	.20902	.00523	.01110	.01103	.01617	.11255	3.3209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01244**	**.21365**	**.01100**	**.02126**	**1.2312**	**.04313**	**3.2258**	**.00975**	**.02649**	**.00918**	**.01352**	**.52034**	**1.1135**	**.10985**
Stddev	.00269	.00003	.00008	.00004	.0105	.00049	.0099	.00002	.00516	.00026	.00305	.00160	.0034	.00140
%RSD	21.627	.01208	.70953	.18376	.85385	1.1345	.30611	.18626	19.468	2.8609	22.548	.30696	.30696	1.2741
#1	.01435	.21363	.01094	.02129	1.2237	.04278	3.2188	.00974	.03014	.00900	.01137	.51921	1.1111	.10886
#2	.01054	.21367	.01105	.02123	1.2386	.04347	3.2328	.00977	.02284	.00937	.01568	.52146	1.1159	.11084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01042**	**.01593**	**.01098**	**.01780**	**.04721**	**.01009**	**.02303**	**.01669**
Stddev	.00012	.00064	.00032	.00036	.00102	.00008	.00002	.00015
%RSD	1.1683	4.0151	2.8750	2.0274	2.1515	.75453	.10579	.91008
#1	.01033	.01638	.01076	.01755	.04649	.01004	.02305	.01680
#2	.01050	.01548	.01120	.01806	.04793	.01014	.02302	.01659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4094.3**	**49513.**	**5596.6**
Stddev	12.9	67.	65.4
%RSD	.31610	.13462	1.1686
#1	4103.4	49466.	5642.9
#2	4085.1	49560.	5550.4

Sample Name: 280-23646-a-4-a Acquired: 12/13/2011 21:38:50 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288
Line	328.068 {103}	167.079 {502}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**2.0505**	W **2.5855**	**.00343**	**1.6486**	**1.8998**	**.00012**	**.00506**	**237.69**	**.00054**
Stddev	.00002	.0387	.0183	.00190	.0022	.0052	.00002	.00244	.76	.00018
%RSD	66.614	1.8865	.70681	55.344	.13163	.27118	19.772	48.272	.32128	33.114
#1	-.00005	2.0779	2.5984	.00477	1.6471	1.8962	.00014	.00679	238.23	.00067
#2	-.00002	2.0232	2.5725	.00209	1.6502	1.9034	.00010	.00333	237.15	.00042
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			500.00							
Low Limit			3.2000							

Elem	Co2286	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	228.616 {447}	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00171**	**.00318**	**.00379**	**21.520**	**41.652**	**.11566**	**263.27**	**.51138**	**.00033**	W **2461.3**
Stddev	.00022	.00009	.00011	.032	.175	.00043	.45	.00240	.00001	.9
%RSD	12.737	2.6933	2.8052	.14790	.41988	.36822	.16906	.46881	1.7728	.03774
#1	.00155	.00324	.00372	21.542	41.529	.11536	263.59	.51307	.00033	2460.6
#2	.00186	.00312	.00387	21.497	41.776	.11596	262.96	.50968	.00034	2461.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit										500.00
Low Limit										10.000

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00218**	W **4.0533**	**.00064**	**1.6547**	**-.00352**	**.00306**	**33.324**	**71.314**	**-.00068**	**3.0558**
Stddev	.00031	.0196	.00062	.0005	.00263	.00084	.256	.548	.00022	.0307
%RSD	14.121	.48388	96.723	.03002	74.740	27.283	.76851	.76851	31.706	1.0029
#1	.00240	4.0672	.00020	1.6551	-.00538	.00247	33.505	71.702	-.00053	3.0775
#2	.00196	4.0395	.00108	1.6544	-.00166	.00365	33.143	70.926	-.00083	3.0341
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2.0000								
Low Limit		-1.0000								

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	283.730 {119}	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00172**	**.07009**	**.00005**	W **-.06117**	**.00620**	**.01204**	**.00418**
Stddev	.00067	.00027	.00154	.03597	.00015	.00046	.00085
%RSD	38.705	.38232	3004.4	58.802	2.3853	3.8343	20.422
#1	-.00219	.07028	-.00104	-.08660	.00630	.01236	.00478
#2	-.00125	.06990	.00114	-.03574	.00609	.01171	.00358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit				45.000			
Low Limit				-.05000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3365.3**	**38798.**	**5226.6**
Stddev	1.5	84.	27.7
%RSD	.04477	.21657	.53064
#1	3366.4	38739.	5207.0
#2	3364.3	38858.	5246.2

Sample Name: 280-23646-a-5-a Acquired: 12/13/2011 21:41:34 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.28034**	**.00322**	**.47458**	**1.4404**	**.00003**	**.00179**	**315.91**	**.00042**	**.00088**
Stddev	.00021	.00146	.00366	.00019	.0058	.00003	.00284	1.43	.00019	.00008
%RSD	27.525	.52201	113.41	.03981	.40181	96.439	158.72	.45130	46.195	9.6119
#1	-.00062	.28138	.00064	.47471	1.4364	.00001	.00380	316.92	.00056	.00094
#2	-.00093	.27931	.00581	.47444	1.4445	.00005	-.00022	314.90	.00028	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**.00172**	**20.378**	**12.976**	**.06566**	**141.97**	**1.6879**	**.00044**	W **862.32**	**.00301**
Stddev	.00013	.00028	.016	.008	.00171	.53	.0043	.00003	2.59	.00033
%RSD	12.198	16.134	.08030	.05820	2.6092	.37619	.25256	7.1798	.29993	10.984
#1	.00101	.00192	20.389	12.981	.06687	142.35	1.6909	.00041	864.15	.00324
#2	.00120	.00153	20.366	12.970	.06445	141.59	1.6849	.00046	860.49	.00278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1846**	**-.00005**	**8.3336**	**-.00493**	**.00545**	**27.125**	**58.049**	**-.00140**	**2.1854**	**-.00161**
Stddev	.0049	.00020	.0540	.00119	.00005	.093	.199	.00107	.0006	.00012
%RSD	.41015	403.47	.64817	24.101	.90802	.34325	.34325	76.581	.02563	7.5622
#1	1.1880	-.00019	8.3718	-.00409	.00542	27.191	58.189	-.00064	2.1850	-.00152
#2	1.1811	.00009	8.2954	-.00577	.00549	27.060	57.908	-.00215	2.1858	-.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00890**	**.00064**	**-.03055**	**.00205**	**.00563**	**.00061**
Stddev	.00014	.00056	.00176	.00046	.00042	.00104
%RSD	1.6052	87.519	5.7452	22.416	7.4110	169.92
#1	.00900	.00103	-.02931	.00172	.00593	-.00012
#2	.00880	.00024	-.03179	.00237	.00534	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3574.6**	**42300.**	**5421.6**
Stddev	1.5	94.	61.3
%RSD	.04230	.22217	1.1303
#1	3573.5	42234.	5378.3
#2	3575.7	42367.	5465.0

Sample Name: 280-23646-a-6-a Acquired: 12/13/2011 21:44:06 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.86946**	**.00859**	**1.8715**	**1.6179**	**.00007**	**.00113**	**178.46**	**.00052**	**.00104**
Stddev	.00019	.00128	.00460	.0150	.0148	.00001	.00188	1.21	.00008	.00017
%RSD	54.163	.14756	53.510	.80094	.91478	14.973	166.50	.67739	15.087	15.906
#1	-.00022	.86855	.00534	1.8609	1.6284	.00007	.00246	179.31	.00057	.00092
#2	-.00049	.87037	.01184	1.8821	1.6075	.00006	-.00020	177.60	.00046	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00150**	**.00155**	**18.495**	**40.062**	**.09836**	**223.55**	**.46232**	**-.00009**	W **2269.8**	**.00091**
Stddev	.00032	.00035	.138	.094	.00140	1.54	.00139	.00007	8.3	.00012
%RSD	21.304	22.822	.74791	.23542	1.4185	.68931	.29993	71.712	.36356	12.982
#1	.00128	.00130	18.593	40.129	.09935	224.64	.46330	-.00005	2275.6	.00083
#2	.00173	.00180	18.397	39.995	.09737	222.46	.46134	-.00014	2264.0	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **4.0174**	**-.00118**	**.86775**	**-.00421**	**-.00104**	**30.667**	**65.628**	**-.00117**	**2.5526**	**-.00215**
Stddev	.0213	.00150	.02658	.00146	.00071	.156	.333	.00196	.0100	.00074
%RSD	.53096	126.86	3.0627	34.738	68.114	.50722	.50722	167.53	.39141	34.161
#1	4.0024	-.00225	.84896	-.00318	-.00054	30.777	65.864	-.00256	2.5596	-.00163
#2	4.0325	-.00012	.88654	-.00524	-.00154	30.557	65.393	.00022	2.5455	-.00267
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03281**	**.00094**	**-.03453**	**.00302**	**.00800**	**.00207**
Stddev	.00001	.00120	.02113	.00004	.00013	.00013
%RSD	.02532	127.94	61.197	1.3876	1.6620	6.4088
#1	.03280	.00009	-.04947	.00299	.00810	.00198
#2	.03282	.00179	-.01959	.00305	.00791	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3418.1**	**39554.**	**5435.7**
Stddev	17.4	61.	18.6
%RSD	.50964	.15337	.34135
#1	3430.4	39511.	5422.6
#2	3405.8	39597.	5448.9

Sample Name: 280-23646-a-7-a Acquired: 12/13/2011 21:46:39 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.05108**	**-.00017**	**.51441**	**2.4946**	**.00004**	**.00151**	**407.56**	**.00038**	**.00910**
Stddev	.00020	.00261	.00365	.00184	.0035	.00003	.00021	9.91	.00002	.00005
%RSD	30.410	5.1081	2110.1	.35703	.13882	58.681	13.869	2.4327	4.2062	.59724
#1	-.00080	.05292	.00241	.51311	2.4971	.00003	.00165	414.57	.00037	.00906
#2	-.00052	.04923	-.00275	.51571	2.4922	.00006	.00136	400.55	.00039	.00914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**.00145**	**83.299**	**11.723**	**.05194**	**160.95**	**5.8300**	**-.00048**	W **964.94**	**.00502**
Stddev	.00017	.00055	.355	.040	.00061	.61	.0398	.00006	.51	.00027
%RSD	8.8402	37.911	.42633	.33963	1.1659	.37830	.68350	13.170	.05246	5.3993
#1	.00178	.00184	83.048	11.695	.05237	161.38	5.8582	-.00044	964.58	.00483
#2	.00202	.00106	83.550	11.751	.05151	160.52	5.8018	-.00053	965.29	.00521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95558**	**.00027**	**2.1998**	**-.00563**	**.00122**	**26.540**	**56.796**	**-.00154**	**2.3585**	**-.00248**
Stddev	.00635	.00056	.0115	.00074	.00691	.031	.065	.00103	.0031	.00211
%RSD	.66407	206.51	.52247	13.105	565.34	.11529	.11529	66.684	.12930	85.236
#1	.95109	.00066	2.1917	-.00615	-.00366	26.519	56.750	-.00227	2.3563	-.00397
#2	.96006	-.00012	2.2080	-.00511	.00611	26.562	56.842	-.00081	2.3606	-.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00349**	**.00188**	**-.03933**	**.00234**	**.00422**	**-.00093**
Stddev	.00007	.00021	.02776	.00021	.00013	.00140
%RSD	2.0845	11.381	70.599	8.7786	3.0298	151.25
#1	.00344	.00173	-.01969	.00249	.00431	-.00192
#2	.00354	.00203	-.05896	.00220	.00413	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3534.0**	**41485.**	**5379.2**
Stddev	12.1	50.	2.0
%RSD	.34291	.12075	.03670
#1	3542.6	41449.	5377.8
#2	3525.4	41520.	5380.6

Sample Name: 280-23646-a-8-a Acquired: 12/13/2011 21:49:18 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.47781**	**-.00111**	**.84953**	**1.1022**	**.00006**	**.00173**	**190.49**	**.00039**	**.00107**
Stddev	.00036	.00408	.00053	.00219	.0068	.00005	.00018	.70	.00000	.00017
%RSD	76.845	.85453	48.122	.25758	.61961	87.505	10.636	.36696	.62416	15.567
#1	-.00021	.48069	-.00073	.85107	1.0974	.00009	.00160	190.00	.00040	.00095
#2	-.00072	.47492	-.00148	.84798	1.1070	.00002	.00186	190.99	.00039	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00125**	**1.1501**	**15.942**	**.06128**	**114.69**	**.78884**	**.00088**	W **1124.5**	**.00147**
Stddev	.00011	.00015	.0017	.123	.00053	.23	.00130	.00007	6.2	.00024
%RSD	8.7470	12.261	.14456	.77068	.85769	.20012	.16517	7.7220	.54786	16.309
#1	.00117	.00136	1.1489	15.855	.06091	114.85	.78976	.00083	1120.1	.00130
#2	.00132	.00114	1.1513	16.029	.06165	114.53	.78791	.00093	1128.8	.00164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16464**	**.00179**	**35.657**	**-.00305**	**.00123**	**20.682**	**44.260**	**-.00163**	**1.5150**	**-.00089**
Stddev	.00031	.00093	.147	.00116	.00210	.132	.282	.00050	.0053	.00084
%RSD	.18647	52.097	.41364	38.024	171.02	.63662	.63662	30.956	.34960	94.334
#1	.16485	.00245	35.761	-.00223	-.00026	20.589	44.060	-.00127	1.5112	-.00030
#2	.16442	.00113	35.552	-.00386	.00272	20.775	44.459	-.00199	1.5187	-.00149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01649**	**.00149**	**-.04259**	**.00359**	**.00884**	**.00210**
Stddev	.00009	.00112	.03363	.00013	.00000	.00015
%RSD	.55473	75.264	78.959	3.6030	.04336	7.2789
#1	.01642	.00228	-.01881	.00350	.00883	.00221
#2	.01655	.00070	-.06637	.00368	.00884	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3572.4**	**41793.**	**5455.8**
Stddev	2.2	77.	27.9
%RSD	.06063	.18344	.51046
#1	3570.9	41739.	5475.5
#2	3574.0	41847.	5436.1

Sample Name: 280-23646-a-9-a Acquired: 12/13/2011 21:51:45 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.10502**	**.01054**	**1.2119**	**1.2320**	**.00008**	**.00058**	**170.05**	**.00057**	**.00064**
Stddev	.00015	.00057	.00201	.0056	.0034	.00004	.00247	.38	.00008	.00020
%RSD	34.682	.54244	19.098	.45980	.27937	59.246	424.93	.22604	14.975	31.323
#1	-.00055	.10542	.01196	1.2080	1.2296	.00011	-.00117	169.78	.00051	.00078
#2	-.00033	.10462	.00911	1.2159	1.2344	.00004	.00233	170.32	.00063	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.00082**	**5.7166**	**24.284**	**.06094**	**153.37**	**.53014**	**.00066**	W **1578.0**	**.00055**
Stddev	.00009	.00008	.0201	.108	.00001	.43	.00263	.00023	1.7	.00014
%RSD	13.527	10.175	.35110	.44442	.01054	.27919	.49604	34.815	.11056	25.742
#1	.00057	.00076	5.7024	24.208	.06094	153.67	.53200	.00050	1576.7	.00045
#2	.00069	.00088	5.7308	24.360	.06095	153.07	.52828	.00083	1579.2	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.56181**	**-.00117**	**15.634**	**-.00208**	**.00220**	**26.998**	**57.777**	**-.00193**	**1.7818**	**-.00259**
Stddev	.00066	.00276	.077	.00152	.00135	.046	.099	.00031	.0062	.00037
%RSD	.11747	234.68	.49503	73.321	61.431	.17108	.17108	16.226	.34770	14.312
#1	.56228	-.00312	15.579	-.00100	.00315	26.966	57.707	-.00171	1.7774	-.00285
#2	.56135	.00077	15.689	-.00316	.00124	27.031	57.847	-.00215	1.7861	-.00233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00462**	**.00155**	**-.02114**	**.00289**	**.00642**	**.00139**
Stddev	.00015	.00096	.01286	.00011	.00016	.00060
%RSD	3.2989	62.238	60.853	3.7710	2.4604	42.974
#1	.00451	.00223	-.01204	.00297	.00653	.00097
#2	.00473	.00087	-.03023	.00282	.00631	.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3497.4**	**41129.**	**5512.5**
Stddev	11.9	112.	3.3
%RSD	.33928	.27125	.05957
#1	3505.8	41208.	5510.2
#2	3489.0	41050.	5514.8

Sample Name: 280-23646-a-10-a Acquired: 12/13/2011 21:54:12 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00024**	**.00148**	**.74247**	**.61703**	**.00009**	**.00065**	**120.92**	**.00040**	**.00045**
Stddev	.00018	.00123	.00106	.00132	.00073	.00002	.00038	.28	.00000	.00016
%RSD	79.500	513.45	71.278	.17771	.11834	22.576	57.778	.22965	.06791	34.553
#1	-.00010	.00111	.00223	.74154	.61754	.00010	.00039	121.12	.00040	.00034
#2	-.00036	-.00063	.00074	.74340	.61651	.00007	.00092	120.72	.00040	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00235**	**1.5023**	**17.018**	**.04922**	**83.621**	**1.0948**	**.00114**	W **855.45**	**.00089**
Stddev	.00002	.00000	.0019	.009	.00072	.297	.0056	.00024	.34	.00021
%RSD	5.0582	.18215	.12649	.05359	1.4561	.35553	.51070	21.439	.03987	23.357
#1	.00036	.00235	1.5037	17.011	.04972	83.831	1.0988	.00131	855.69	.00103
#2	.00039	.00234	1.5010	17.024	.04871	83.411	1.0909	.00097	855.21	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.75609**	**-.00097**	**103.62**	**-.00264**	**.00205**	**27.614**	**59.093**	**-.00160**	**1.0846**	**-.00142**
Stddev	.00112	.00027	.28	.00166	.00136	.082	.176	.00045	.0002	.00167
%RSD	.14837	27.959	.26811	62.742	66.370	.29860	.29860	28.283	.02079	117.83
#1	.75688	-.00078	103.42	-.00381	.00301	27.672	59.218	-.00128	1.0847	-.00261
#2	.75529	-.00117	103.82	-.00147	.00109	27.555	58.969	-.00192	1.0844	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	**.00168**	**.00263**	**.00103**	**.01044**	**.00220**
Stddev	.00002	.00304	.00067	.00036	.00001	.00013
%RSD	1.3613	181.48	25.387	35.143	.10366	6.0462
#1	.00153	.00383	.00310	.00129	.01044	.00210
#2	.00156	-.00048	.00216	.00078	.01045	.00229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3664.2**	**42981.**	**5520.9**
Stddev	1.0	113.	6.6
%RSD	.02654	.26352	.11944
#1	3664.9	42901.	5516.2
#2	3663.5	43061.	5525.5

Sample Name: CCVH-1169743 Acquired: 12/13/2011 21:56:39 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**50.510**	**-.00406**	**.00432**	**.00063**	**-.00012**	**1.0292**	**.01768**	**-.00070**	**.00086**	**.00045**	**-.00096**	**50.306**
Stddev	.00057	.290	.00142	.00054	.00011	.00005	.0007	.00160	.00005	.00001	.00005	.00035	.091
%RSD	76.587	.57373	35.010	12.577	18.292	46.346	.06516	9.0376	7.8578	1.2698	10.368	36.586	.18049
#1	-.00115	50.305	-.00506	.00471	.00071	-.00008	1.0287	.01881	-.00066	.00086	.00042	-.00071	50.241
#2	-.00034	50.715	-.00305	.00394	.00055	-.00016	1.0297	.01655	-.00074	.00087	.00049	-.00121	50.370
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30926**	**.00268**	**.00621**	**-.00145**	**-.00201**	**253.96**	**.00081**	**.00333**	**-.00075**	**5.0821**	**-.00347**	**.00092**	**.09834**
Stddev	.00843	.00008	.00144	.00006	.00017	.21	.00031	.00146	.00044	.0047	.00066	.00055	.01910
%RSD	2.7267	2.8018	23.139	3.8538	8.2744	.08124	37.942	43.922	58.572	.09180	19.090	59.273	19.425
#1	.31522	.00273	.00519	-.00141	-.00189	253.82	.00103	.00230	-.00044	5.0788	-.00394	.00054	.08483
#2	.30330	.00263	.00723	-.00149	-.00212	254.11	.00059	.00437	-.00106	5.0854	-.00300	.00131	.11185
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21045**	**.00229**	**.00055**	**5.0172**	**.00089**	**-.00549**	**10.442**	**-.00026**	**.00205**	**-.01241**
Stddev	.04088	.00042	.00004	.0261	.00045	.00122	.013	.00008	.00067	.00016
%RSD	19.425	18.546	7.6672	.52009	51.188	22.287	.11974	31.926	32.557	1.3142
#1	.18154	.00199	.00058	4.9987	.00121	-.00635	10.433	-.00032	.00157	-.01252
#2	.23936	.00258	.00052	5.0356	.00057	-.00462	10.450	-.00020	.00252	-.01229
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3878.9**	**46499.**	**5514.4**
Stddev	11.1	194.	23.3
%RSD	.28530	.41738	.42262
#1	3886.8	46636.	5530.9
#2	3871.1	46362.	5497.9

Sample Name: CCV-1169927 Acquired: 12/13/2011 21:59:00 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50794**	**.53228**	**1.0406**	**.52014**	**.51400**	**.51065**	**.00145**	**5.0976**	**.51703**	**.52391**	**.52402**	**.51822**	**2.4982**
Stddev	.00130	.00254	.0064	.00282	.00303	.00065	.00098	.0263	.00178	.00155	.00227	.00051	.0152
%RSD	.25674	.47792	.61586	.54153	.58944	.12813	67.799	.51644	.34407	.29629	.43359	.09844	.60732
#1	.50886	.53408	1.0451	.52213	.51614	.51111	.00215	5.1162	.51828	.52500	.52563	.51858	2.5089
#2	.50702	.53048	1.0360	.51815	.51185	.51018	.00076	5.0790	.51577	.52281	.52241	.51786	2.4874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**51.245**	**1.0437**	**20.133**	**.51091**	**.52102**	**5.4399**	**.52267**	**1.0344**	**1.0387**	**.01004**	**1.0407**	**1.0254**	**5.0416**
Stddev	.214	.0054	.025	.00006	.00149	.0266	.00252	.0034	.0072	.00068	.0003	.0020	.0025
%RSD	.41693	.52101	.12520	.01099	.28600	.48883	.48211	.33007	.69168	6.8245	.03181	.19282	.04911
#1	51.396	1.0475	20.115	.51087	.52207	5.4587	.52445	1.0369	1.0438	.00955	1.0409	1.0268	5.0398
#2	51.094	1.0399	20.151	.51095	.51996	5.4211	.52089	1.0320	1.0336	.01052	1.0405	1.0240	5.0433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.789**	**1.0379**	**.51861**	**-.00167**	**.51614**	**1.0417**	**-.01554**	**.51272**	**.50639**	**.50745**
Stddev	.005	.0008	.00187	.00181	.00073	.0046	.00208	.00013	.00155	.00104
%RSD	.04911	.07655	.36135	108.80	.14199	.44044	13.356	.02447	.30532	.20495
#1	10.785	1.0384	.51994	-.00038	.51562	1.0450	-.01407	.51281	.50529	.50818
#2	10.793	1.0373	.51729	-.00295	.51666	1.0385	-.01700	.51263	.50748	.50671
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3947.4**	**47928.**	**5590.1**
Stddev	11.0	214.	.4
%RSD	.27814	.44565	.00784
#1	3939.6	48079.	5589.8
#2	3955.2	47777.	5590.4

Sample Name: CCB Acquired: 12/13/2011 22:01:10 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00509**	**-.00217**	W **.00232**	**.00000**	**.00000**	**-.00030**	**.00567**	**.00003**	**.00007**	**.00028**	**-.00003**
Stddev	.00012	.00040	.00186	.00059	.00007	.00010	.00061	.00080	.00008	.00022	.00020	.00003
%RSD	121.02	7.8011	85.758	25.421	2493.1	15962.	202.43	14.111	266.99	326.97	71.764	104.13
#1	-.00001	.00537	-.00348	.00274	.00005	.00007	.00013	.00511	-.00003	-.00009	.00014	-.00004
#2	-.00018	.00481	-.00085	.00191	-.00004	-.00007	-.00073	.00624	.00008	.00022	.00042	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00156								
Low Limit				-.00156								

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.16717**	**.00128**	**.00651**	**.00015**	**.00038**	F **.27683**	**-.00018**	**.00006**	**.00004**	**.03002**	**.00168**
Stddev	.00097	.03143	.00036	.00250	.00008	.00026	.00301	.00010	.00019	.00043	.00339	.00035
%RSD	106.21	18.803	27.802	38.331	51.235	68.502	1.0862	57.908	341.35	1180.4	11.290	21.013
#1	.00160	.14494	.00153	.00828	.00020	.00020	.27896	-.00011	-.00008	-.00027	.02762	.00193
#2	.00023	.18939	.00103	.00475	.00009	.00057	.27470	-.00025	.00019	.00034	.03242	.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							.18300					
Low Limit							-.18320					

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00267**	**.02466**	**.05276**	**-.00007**	**.00006**	**.00080**	**.00018**	**.00118**	**-.02503**	**-.00010**	**.00158**	**.00136**
Stddev	.00154	.00425	.00910	.00004	.00002	.00135	.00026	.00051	.02031	.00031	.00002	.00028
%RSD	57.424	17.240	17.240	56.771	30.750	168.49	139.63	43.749	81.159	323.96	1.1742	20.241
#1	-.00159	.02766	.05920	-.00009	.00007	.00176	.00036	.00081	-.03939	.00012	.00157	.00156
#2	-.00376	.02165	.04633	-.00004	.00005	-.00015	.00000	.00154	-.01066	-.00032	.00159	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3911.2**	**48200.**	**5452.6**
Stddev	4.7	161.	56.8
%RSD	.11985	.33310	1.0417
#1	3914.5	48313.	5492.8
#2	3907.9	48086.	5412.5

Sample Name: CCVL1171013 Acquired: 12/13/2011 22:03:35 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01009**	**.11381**	**.01522**	**.11163**	**.01030**	**.00108**	**.11740**	**.21154**	**.00534**	**.01115**	**.01089**	**.01583**	**.10082**
Stddev	.00042	.00247	.00236	.00036	.00011	.00002	.00140	.00144	.00010	.00021	.00005	.00059	.00096
%RSD	4.1713	2.1734	15.536	.32462	1.0492	1.7395	1.1907	.68210	1.8309	1.8514	.48044	3.7031	.95148
#1	.01039	.11555	.01689	.11137	.01038	.00107	.11641	.21256	.00527	.01100	.01085	.01541	.10150
#2	.00979	.11206	.01355	.11188	.01023	.00110	.11838	.21052	.00541	.01130	.01092	.01624	.10014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.3091**	**.01076**	**.21699**	**.01079**	**.02131**	F **1.3253**	**.04303**	**3.2515**	**.00937**	**.02627**	**.00904**	**.01365**	**.52173**
Stddev	.0323	.00088	.00009	.00002	.00022	.0024	.00049	.0087	.00116	.00440	.00165	.00168	.00435
%RSD	.97635	8.1514	.04296	.16803	1.0142	.17744	1.1270	.26851	12.371	16.762	18.281	12.306	.83417
#1	3.2863	.01138	.21706	.01080	.02146	1.3236	.04269	3.2453	.00855	.02938	.01020	.01246	.51866
#2	3.3320	.01014	.21692	.01077	.02115	1.3269	.04338	3.2577	.01019	.02315	.00787	.01484	.52481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value						1.0000							
Range						30.000%							

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1165**	**.10973**	**.01063**	**.01499**	**.01120**	**.01844**	**.06398**	**.01016**	**.02354**	**.01754**
Stddev	.0093	.00097	.00002	.00076	.00001	.00034	.00630	.00008	.00015	.00060
%RSD	.83417	.87944	.19514	5.0881	.07973	1.8397	9.8437	.81835	.63521	3.4180
#1	1.1099	.11041	.01064	.01445	.01121	.01868	.06844	.01022	.02365	.01712
#2	1.1231	.10905	.01061	.01553	.01120	.01820	.05953	.01010	.02344	.01797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4086.1**	**49560.**	**5669.3**
Stddev	19.4	31.	13.6
%RSD	.47366	.06174	.23938
#1	4099.8	49539.	5678.9
#2	4072.4	49582.	5659.7

Sample Name: 280-23646-a-11-a Acquired: 12/13/2011 22:05:58 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.01103**	**-.00187**	**.76514**	**.31357**	**.00004**	**-.00048**	**163.95**	**.00056**	**.00054**
Stddev	.00025	.00037	.00063	.00567	.00046	.00006	.00088	.35	.00019	.00010
%RSD	86.718	3.3175	33.774	.74051	.14528	160.64	182.66	.21326	34.735	18.064
#1	.00011	-.01077	-.00231	.76915	.31389	.00008	-.00110	164.19	.00042	.00061
#2	.00046	-.01129	-.00142	.76113	.31325	.00000	.00014	163.70	.00070	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.00189**	**7.9979**	**14.539**	**.07935**	**100.10**	**1.1484**	**.00034**	W **782.38**	**.00080**
Stddev	.00002	.00037	.0083	.063	.00147	.17	.0017	.00017	.45	.00027
%RSD	1.8508	19.628	.10428	.43534	1.8529	.16710	.14759	49.931	.05772	34.261
#1	.00081	.00163	8.0038	14.494	.07831	100.22	1.1496	.00022	782.06	.00099
#2	.00084	.00215	7.9920	14.583	.08039	99.982	1.1472	.00046	782.70	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.63158**	**.00068**	F **233.38**	**-.00238**	**.00441**	**25.131**	**53.781**	**-.00186**	**1.2139**	**-.00268**
Stddev	.00108	.00054	1.21	.00097	.00116	.058	.124	.00092	.0001	.00085
%RSD	.17168	78.556	.51804	40.802	26.276	.23033	.23033	49.372	.00392	31.741
#1	.63234	.00106	234.23	-.00307	.00523	25.172	53.868	-.00251	1.2140	-.00208
#2	.63081	.00030	232.52	-.00169	.00359	25.090	53.693	-.00121	1.2139	-.00328
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			200.00							
Low Limit			-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.00127**	**-.02667**	**.00145**	**.00792**	**.00213**
Stddev	.00002	.00052	.00070	.00040	.00025	.00117
%RSD	.80247	40.697	2.6255	27.801	3.1971	55.119
#1	.00188	.00091	-.02618	.00174	.00774	.00130
#2	.00186	.00164	-.02717	.00117	.00810	.00296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3627.9**	**42706.**	**5493.8**
Stddev	7.7	108.	14.5
%RSD	.21232	.25358	.26393
#1	3622.4	42630.	5483.6
#2	3633.3	42783.	5504.1

Sample Name: 280-23646-a-12-a Acquired: 12/13/2011 22:08:24 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00149**	**.01378**	**.84891**	**.37548**	**.00009**	**.00018**	**273.92**	**.00044**	**.01314**
Stddev	.00027	.00079	.00034	.00084	.00183	.00001	.00299	1.33	.00003	.00031
%RSD	167.99	52.905	2.4429	.09863	.48663	12.823	1638.3	.48419	6.6357	2.3713
#1	.00035	.00205	.01401	.84950	.37419	.00008	-.00193	272.98	.00042	.01336
#2	-.00003	.00093	.01354	.84831	.37677	.00010	.00230	274.85	.00047	.01292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00168**	**.01330**	**11.328**	**19.151**	**.11716**	**164.71**	**1.6885**	**.00134**	W **1067.1**	**.04161**
Stddev	.00010	.00031	.044	.172	.00130	1.42	.0090	.00010	.5	.00034
%RSD	6.1944	2.2995	.38789	.89785	1.1108	.86465	.53370	7.0925	.04393	.81422
#1	.00176	.01351	11.297	19.030	.11624	163.70	1.6821	.00141	1067.4	.04185
#2	.00161	.01308	11.359	19.273	.11808	165.71	1.6949	.00127	1066.7	.04137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.77118**	**.00029**	F **202.24**	**-.00474**	**.00131**	**18.719**	**40.058**	**-.00102**	**1.8030**	**-.00238**
Stddev	.00235	.00103	.25	.00053	.00248	.007	.015	.00030	.0101	.00015
%RSD	.30479	357.49	.12353	11.195	188.48	.03713	.03713	29.137	.55927	6.2973
#1	.77285	.00101	202.42	-.00436	-.00044	18.714	40.047	-.00123	1.7959	-.00227
#2	.76952	-.00044	202.06	-.00511	.00307	18.723	40.068	-.00081	1.8102	-.00248
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			200.00							
Low Limit			-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00336**	**.00296**	**-.00559**	**.00292**	**.00765**	**.00355**
Stddev	.00024	.00198	.00352	.00041	.00047	.00011
%RSD	7.2061	67.014	63.001	13.907	6.0792	2.9858
#1	.00353	.00436	-.00808	.00321	.00732	.00362
#2	.00319	.00155	-.00310	.00263	.00798	.00347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3551.5**	**41407.**	**5511.9**
Stddev	6.8	366.	10.1
%RSD	.19281	.88311	.18375
#1	3546.7	41665.	5504.7
#2	3556.4	41148.	5519.0

Sample Name: 280-23646-a-13-a Acquired: 12/13/2011 22:10:56 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.29140**	**.00709**	**1.0264**	**.98238**	**.00013**	**.00100**	**232.25**	**.00055**	**.00576**
Stddev	.00003	.00589	.00188	.0039	.00357	.00003	.00056	1.42	.00016	.00027
%RSD	8.0796	2.0203	26.557	.37550	.36308	20.238	55.971	.61196	28.804	4.6492
#1	-.00043	.29556	.00843	1.0291	.97985	.00015	.00139	233.26	.00044	.00595
#2	-.00038	.28724	.00576	1.0237	.98490	.00011	.00060	231.25	.00066	.00557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.00256**	**16.777**	**26.762**	**.10468**	**182.70**	**1.2148**	**.00261**	W **1438.5**	**.03264**
Stddev	.00016	.00021	.008	.155	.00079	.03	.0005	.00021	1.7	.00037
%RSD	8.1403	8.1583	.04842	.57921	.75879	.01662	.04233	8.1519	.11981	1.1277
#1	.00208	.00241	16.782	26.653	.10412	182.73	1.2151	.00276	1439.7	.03290
#2	.00185	.00270	16.771	26.872	.10524	182.68	1.2144	.00246	1437.3	.03238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6239**	**.00034**	**46.033**	**-.00514**	**.00360**	**23.833**	**51.002**	**-.00166**	**2.4558**	**-.00100**
Stddev	.0031	.00085	.235	.00028	.00035	.031	.067	.00141	.0002	.00089
%RSD	.19132	247.04	.51094	5.3540	9.5881	.13212	.13212	84.734	.00683	89.561
#1	1.6261	.00095	46.200	-.00534	.00336	23.811	50.955	-.00067	2.4559	-.00163
#2	1.6217	-.00026	45.867	-.00495	.00385	23.855	51.050	-.00265	2.4557	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01197**	**.00065**	**-.03326**	**.00529**	**.00600**	**.00352**
Stddev	.00036	.00136	.01784	.00056	.00044	.00050
%RSD	2.9931	210.34	53.625	10.603	7.3625	14.132
#1	.01222	-.00031	-.02065	.00489	.00631	.00316
#2	.01171	.00161	-.04587	.00569	.00569	.00387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3530.1**	**40679.**	**5330.3**
Stddev	23.1	80.	3.4
%RSD	.65571	.19705	.06417
#1	3513.7	40735.	5332.7
#2	3546.4	40622.	5327.9

Sample Name: 280-23646-a-14-a Acquired: 12/13/2011 22:13:29 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.04684**	**.00987**	**.60328**	**.18478**	**.00005**	**.00063**	**98.965**	**.00035**	**.00007**
Stddev	.00081	.00346	.00038	.00510	.00034	.00013	.00042	.360	.00006	.00001
%RSD	718.84	7.3936	3.8749	.84486	.18404	259.89	66.429	.36414	18.374	15.341
#1	-.00069	.04929	.00960	.59968	.18502	.00015	.00093	99.220	.00030	.00006
#2	.00046	.04439	.01014	.60688	.18454	-.00004	.00033	98.710	.00039	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00079**	**1.2537**	**6.9151**	**.06148**	**52.133**	**.42648**	**.00790**	W **602.42**	**.00142**
Stddev	.00006	.00027	.0058	.0176	.00211	.122	.00158	.00008	1.00	.00001
%RSD	9.5678	34.307	.46193	.25491	3.4324	.23411	.37136	.97098	.16613	.89642
#1	.00065	.00060	1.2496	6.9026	.06297	52.047	.42536	.00784	603.12	.00143
#2	.00057	.00098	1.2578	6.9276	.05999	52.220	.42760	.00795	601.71	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58704**	**.00007**	**54.098**	**-.00338**	**.00040**	**18.468**	**39.520**	**-.00120**	**.71760**	**-.00153**
Stddev	.00536	.00031	.329	.00174	.00043	.062	.132	.00021	.00289	.00027
%RSD	.91375	446.46	.60807	51.454	107.98	.33406	.33406	17.435	.40270	17.446
#1	.58325	.00029	53.865	-.00215	.00009	18.511	39.614	-.00134	.71965	-.00134
#2	.59083	-.00015	54.330	-.00461	.00070	18.424	39.427	-.00105	.71556	-.00172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00226**	**.00170**	**-.01490**	**.00040**	**.01267**	**.00162**
Stddev	.00008	.00112	.00301	.00022	.00019	.00061
%RSD	3.7128	66.082	20.214	55.488	1.5232	37.435
#1	.00220	.00250	-.01703	.00024	.01281	.00119
#2	.00232	.00091	-.01277	.00055	.01254	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3724.2**	**43183.**	**5450.6**
Stddev	17.6	26.	15.7
%RSD	.47211	.05987	.28763
#1	3736.6	43201.	5461.7
#2	3711.7	43165.	5439.6

Sample Name: 280-23646-a-15-a Acquired: 12/13/2011 22:15:57 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01224**	**.00314**	**.58149**	**.42210**	**.00009**	**.00133**	**89.903**	**.00031**	**-.00019**
Stddev	.00021	.00038	.00137	.00074	.00241	.00000	.00095	.416	.00001	.00028
%RSD	328.00	3.1188	43.580	.12647	.57122	.58038	71.545	.46265	1.9925	147.95
#1	-.00022	.01251	.00218	.58097	.42381	.00009	.00201	90.197	.00031	.00001
#2	.00009	.01197	.00411	.58201	.42040	.00009	.00066	89.609	.00030	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00376**	**5.2046**	**10.053**	**.04261**	**56.441**	**.95686**	**.00169**	W **578.10**	**.00226**
Stddev	.00018	.00015	.0365	.006	.00001	.056	.00078	.00006	1.05	.00023
%RSD	31.474	3.9127	.70132	.05957	.03029	.09951	.08159	3.4100	.18145	10.167
#1	.00046	.00386	5.2304	10.049	.04262	56.401	.95631	.00173	578.84	.00242
#2	.00072	.00365	5.1788	10.058	.04261	56.481	.95741	.00165	577.36	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **3.0912**	**-.00022**	**35.559**	**-.00380**	**.00095**	**23.469**	**50.224**	**-.00180**	**.73730**	**-.00105**
Stddev	.0009	.00031	.017	.00095	.00042	.109	.234	.00055	.00143	.00016
%RSD	.02814	139.98	.04718	24.957	43.792	.46498	.46498	30.386	.19462	15.062
#1	3.0906	.00000	35.547	-.00313	.00124	23.547	50.390	-.00219	.73832	-.00116
#2	3.0918	-.00044	35.571	-.00447	.00066	23.392	50.059	-.00142	.73629	-.00094
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00152**	**.00063**	**-.01895**	**.00099**	**.00433**	**.00104**
Stddev	.00007	.00195	.00072	.00006	.00048	.00010
%RSD	4.6350	310.99	3.7845	6.2313	11.036	9.9667
#1	.00157	.00200	-.01946	.00104	.00467	.00097
#2	.00147	-.00075	-.01845	.00095	.00399	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3712.9**	**44144.**	**5560.4**
Stddev	3.3	152.	24.5
%RSD	.08777	.34542	.44107
#1	3715.2	44252.	5543.1
#2	3710.6	44036.	5577.8

Sample Name: 280-23646-a-16-a Acquired: 12/13/2011 22:18:24 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.03709**	**.00447**	**.90950**	**1.0268**	**.00003**	**.00276**	**248.85**	**.00041**	**.00045**
Stddev	.00029	.00104	.00159	.00162	.0014	.00006	.00240	2.29	.00016	.00027
%RSD	83.996	2.7941	35.539	.17828	.13689	186.32	86.788	.92072	39.896	59.492
#1	.00055	.03782	.00559	.91064	1.0278	-.00001	.00107	247.23	.00052	.00026
#2	.00014	.03635	.00335	.90835	1.0258	.00007	.00446	250.47	.00029	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00338**	**2.8453**	**16.240**	**.08265**	**175.15**	**1.8912**	**.00099**	W **1305.2**	**.00054**
Stddev	.00002	.00026	.0129	.005	.00101	.36	.0076	.00010	2.8	.00010
%RSD	3.5107	7.6177	.45303	.03128	1.2229	.20774	.40105	10.419	.21697	18.608
#1	.00065	.00319	2.8544	16.236	.08337	175.41	1.8965	.00107	1307.2	.00047
#2	.00062	.00356	2.8362	16.243	.08194	174.90	1.8858	.00092	1303.2	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.64208**	**-.00075**	**83.356**	**-.00479**	**.00043**	**23.455**	**50.193**	**-.00068**	**2.1221**	**-.00215**
Stddev	.00412	.00045	.102	.00215	.00021	.015	.033	.00077	.0069	.00067
%RSD	.64207	60.843	.12186	44.817	49.119	.06509	.06509	114.56	.32381	30.981
#1	.64500	-.00107	83.428	-.00327	.00058	23.466	50.216	-.00013	2.1270	-.00262
#2	.63917	-.00043	83.284	-.00631	.00028	23.444	50.170	-.00122	2.1173	-.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00299**	**.00080**	**-.01833**	**.00207**	**.00648**	**.00168**
Stddev	.00030	.00043	.01639	.00003	.00009	.00063
%RSD	10.075	53.435	89.398	1.5232	1.4003	37.712
#1	.00321	.00050	-.00674	.00209	.00642	.00213
#2	.00278	.00111	-.02992	.00205	.00654	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3537.8**	**41185.**	**5402.1**
Stddev	5.1	122.	10.5
%RSD	.14401	.29684	.19485
#1	3534.2	41099.	5394.6
#2	3541.4	41271.	5409.5

Sample Name: 280-23646-a-17-a Acquired: 12/13/2011 22:20:58 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.00006**	**.00185**	**.68005**	**.60481**	**.00002**	**.00284**	**121.90**	**.00040**	**.00017**
Stddev	.00006	.00169	.00117	.00830	.00299	.00004	.00024	.76	.00007	.00012
%RSD	9.8468	3011.2	63.434	1.2203	.49364	163.76	8.6021	.62230	18.656	67.402
#1	-.00065	-.00114	.00102	.67418	.60269	.00000	.00267	121.37	.00034	.00009
#2	-.00056	.00125	.00267	.68591	.60692	.00005	.00301	122.44	.00045	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00223**	**5.0736**	**14.217**	**.04674**	**74.342**	**.73853**	**.00172**	W **806.72**	**.00103**
Stddev	.00020	.00043	.0393	.109	.00177	.118	.00048	.00029	1.83	.00010
%RSD	41.644	19.082	.77394	.76916	3.7867	.15913	.06533	16.863	.22653	9.6625
#1	.00034	.00253	5.0459	14.140	.04549	74.426	.73887	.00151	805.43	.00110
#2	.00063	.00193	5.1014	14.295	.04800	74.259	.73819	.00192	808.01	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6804**	**-.00034**	**88.410**	**-.00349**	**.00048**	**22.305**	**47.733**	**-.00119**	**.95457**	**-.00159**
Stddev	.0200	.00010	1.488	.00034	.00065	.118	.252	.00056	.00348	.00019
%RSD	1.1913	29.618	1.6832	9.6341	135.22	.52859	.52859	46.771	.36432	12.138
#1	1.6662	-.00041	87.358	-.00372	.00094	22.222	47.554	-.00159	.95211	-.00173
#2	1.6946	-.00027	89.462	-.00325	.00002	22.388	47.911	-.00080	.95703	-.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00131**	**.00060**	**-.03275**	**.00130**	**.00992**	**.00116**
Stddev	.00011	.00100	.04657	.00034	.00008	.00051
%RSD	8.6133	165.99	142.20	25.973	.77725	44.455
#1	.00139	-.00010	-.06569	.00106	.00997	.00079
#2	.00123	.00131	.00018	.00154	.00986	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3750.0**	**44358.**	**5536.9**
Stddev	39.6	63.	49.2
%RSD	1.0565	.14311	.88771
#1	3778.1	44313.	5571.6
#2	3722.0	44403.	5502.1

Sample Name: 280-23646-a-18-a Acquired: 12/13/2011 22:23:25 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99644 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.08602**	**.00499**	**.73321**	**.47461**	**.00002**	**.00206**	**86.376**	**.00040**	**.00035**
Stddev	.00027	.00022	.00247	.00525	.00394	.00005	.00211	.491	.00012	.00018
%RSD	223.19	.25201	49.546	.71607	.82944	223.58	102.57	.56828	29.389	53.126
#1	-.00032	.08587	.00324	.73692	.47740	.00006	.00057	86.723	.00031	.00048
#2	.00007	.08617	.00674	.72950	.47183	-.00001	.00355	86.029	.00048	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**.00136**	**5.1333**	**11.271**	**.04351**	**61.090**	**.76480**	**.00219**	W **752.62**	**.00104**
Stddev	.00009	.00057	.0203	.045	.00009	.533	.00790	.00027	2.28	.00009
%RSD	10.365	41.802	.39594	.39498	.21049	.87310	1.0332	12.465	.30359	9.0781
#1	.00091	.00177	5.1477	11.302	.04344	60.713	.75921	.00239	754.23	.00110
#2	.00078	.00096	5.1189	11.239	.04357	61.467	.77038	.00200	751.00	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **2.3503**	**-.00059**	**66.679**	**-.00360**	**.00247**	**23.202**	**49.652**	**-.00176**	**.73098**	**-.00092**
Stddev	.0289	.00076	.488	.00239	.00251	.150	.322	.00048	.00330	.00164
%RSD	1.2314	128.83	.73132	66.251	101.84	.64818	.64818	27.289	.45115	177.40
#1	2.3707	-.00005	67.024	-.00191	.00069	23.308	49.879	-.00142	.73331	-.00208
#2	2.3298	-.00113	66.335	-.00529	.00424	23.095	49.424	-.00210	.72865	.00024
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00358**	**.00038**	W **-.05201**	**.00105**	**.00561**	**.00176**
Stddev	.00011	.00127	.00089	.00004	.00041	.00051
%RSD	3.0883	332.61	1.7141	4.2222	7.2863	28.960
#1	.00350	-.00052	-.05264	.00102	.00532	.00213
#2	.00366	.00128	-.05138	.00109	.00590	.00140
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			45.000			
Low Limit			-.05000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3712.5**	**43352.**	**5496.7**
Stddev	31.7	255.	46.5
%RSD	.85423	.58790	.84528
#1	3690.0	43532.	5463.8
#2	3734.9	43172.	5529.6

Sample Name: CCVH-1169743 Acquired: 12/13/2011 22:25:52 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	**46.337**	**-.00222**	**.00385**	**.00038**	**-.00012**	**1.0189**	**.00891**	**-.00077**	**.00079**	**.00044**	**-.00142**
Stddev	.00053	.065	.00102	.00032	.00029	.00001	.0032	.00207	.00010	.00003	.00015	.00009
%RSD	53.977	.14110	46.028	8.2586	76.189	5.5410	.31379	23.225	13.450	3.2267	34.785	6.0011
#1	-.00135	46.383	-.00150	.00408	.00018	-.00011	1.0212	.00745	-.00084	.00081	.00033	-.00148
#2	-.00061	46.291	-.00294	.00363	.00059	-.00012	1.0167	.01038	-.00070	.00077	.00055	-.00136
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None
Value												
Range												

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**46.144**	**.28150**	**.00188**	**.01381**	**-.00118**	**-.00194**	**234.58**	**.00096**	**.00289**	**-.00096**	**5.0918**	**-.00351**
Stddev	.165	.02202	.00014	.01002	.00004	.00005	.76	.00016	.00006	.00198	.0094	.00084
%RSD	.35820	7.8236	7.3496	72.525	3.6532	2.6939	.32246	16.451	2.1940	205.00	.18369	23.954
#1	46.261	.29708	.00178	.02089	-.00115	-.00198	235.11	.00085	.00293	-.00236	5.0984	-.00411
#2	46.027	.26593	.00198	.00673	-.00121	-.00190	234.04	.00107	.00284	.00043	5.0852	-.00292
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None
Value												
Range												

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.03206**	**.06861**	**.00206**	**.00050**	W **4.6029**	**.00114**	**-.00318**	**9.5722**	**-.00054**	**.00156**	**-.01037**
Stddev	.00244	.00376	.00805	.00128	.00000	.0395	.00006	.00064	.0389	.00065	.00060	.00145
%RSD	1920.4	11.728	11.728	62.033	.85075	.85911	5.2429	20.176	.40642	119.64	38.541	13.939
#1	-.00160	.03472	.07430	.00296	.00050	4.6309	.00110	-.00363	9.5997	-.00100	.00114	-.00935
#2	.00185	.02940	.06292	.00116	.00051	4.5750	.00118	-.00272	9.5447	-.00008	.00199	-.01139
Check ?	None	None	None	None	None	Chk Warn	None	None	Chk Pass	None	None	None
Value						5.0000						
Range						-5.0000%						

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3842.5**	**48850.**	**5751.1**
Stddev	17.5	304.	17.4
%RSD	.45646	.62250	.30235
#1	3854.9	48635.	5738.8
#2	3830.1	49065.	5763.4

Sample Name: CCV-1169927 Acquired: 12/13/2011 22:28:12 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50641**	**.53992**	**1.0253**	**.51454**	**.50987**	**.51056**	**.00179**	**5.1242**	**.51500**	**.52253**	**.52353**	**.51290**	**2.5049**
Stddev	.00165	.00397	.0024	.00083	.00073	.00080	.00129	.0076	.00002	.00028	.00004	.00085	.0002
%RSD	.32516	.73587	.23607	.16074	.14383	.15711	72.282	.14769	.00450	.05347	.00687	.16619	.00678
#1	.50525	.54273	1.0236	.51395	.50935	.51113	.00271	5.1296	.51502	.52273	.52355	.51230	2.5050
#2	.50757	.53711	1.0270	.51512	.51039	.51000	.00088	5.1189	.51498	.52233	.52350	.51351	2.5048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**51.654**	**1.0439**	**20.310**	**.51044**	**.51846**	**5.4980**	**.52175**	**1.0293**	**1.0323**	**.01602**	**1.0294**	**1.0147**	**5.0444**
Stddev	.045	.0036	.006	.00148	.00055	.0461	.00024	.0024	.0027	.00285	.0010	.0045	.0152
%RSD	.08750	.33999	.03143	.28902	.10524	.83858	.04580	.23755	.25863	17.818	.09276	.43808	.30150
#1	51.686	1.0464	20.314	.51149	.51807	5.5306	.52192	1.0310	1.0304	.01400	1.0301	1.0178	5.0337
#2	51.622	1.0413	20.305	.50940	.51884	5.4654	.52158	1.0276	1.0342	.01804	1.0288	1.0115	5.0552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.795**	**1.0349**	**.51879**	**-.00074**	**.51727**	**1.0397**	**.01454**	**.51071**	**.51218**	**.50775**
Stddev	.033	.0005	.00004	.00111	.00009	.0037	.02054	.00095	.00318	.00181
%RSD	.30150	.04906	.00762	148.55	.01711	.35535	141.22	.18654	.62045	.35628
#1	10.772	1.0345	.51876	-.00153	.51733	1.0423	.00002	.51138	.51443	.50903
#2	10.818	1.0353	.51882	.00004	.51721	1.0371	.02907	.51003	.50993	.50647
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3938.2**	**47576.**	**5458.6**
Stddev	3.9	146.	24.1
%RSD	.09779	.30650	.44210
#1	3935.4	47473.	5441.5
#2	3940.9	47680.	5475.7

Sample Name: CCB Acquired: 12/13/2011 22:30:24 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00297**	**.00091**	**.00145**	**.00028**	**.00024**	**-.00131**	**-.00039**	**.00014**	**.00018**	**.00014**	**-.00017**	**.00300**
Stddev	.00010	.00096	.00312	.00021	.00008	.00023	.00229	.00085	.00018	.00002	.00012	.00004	.00219
%RSD	81.444	32.494	344.45	14.215	28.635	96.840	175.36	215.17	129.22	9.3089	85.000	21.226	73.128
#1	-.00005	.00365	-.00130	.00160	.00033	.00041	.00031	.00021	.00027	.00019	.00006	-.00015	.00455
#2	-.00019	.00228	.00312	.00131	.00022	.00008	-.00293	-.00099	.00001	.00017	.00023	-.00020	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16253**	**.00181**	**.00188**	**.00010**	**.00030**	F **.21632**	**-.00037**	**.00045**	**.00046**	**.02985**	**.00130**	**.00191**	**-.00006**
Stddev	.00472	.00088	.00120	.00009	.00024	.01365	.00023	.00247	.00150	.00059	.00036	.00073	.00274
%RSD	2.9027	48.735	63.973	87.646	78.838	6.3078	63.453	552.89	326.15	1.9785	27.616	38.340	4424.0
#1	.15919	.00243	.00273	.00017	.00013	.22597	-.00020	.00219	.00152	.02943	.00155	.00140	.00188
#2	.16586	.00118	.00103	.00004	.00047	.20667	-.00053	-.00130	-.00060	.03027	.00105	.00243	-.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						.18300							
Low Limit						-.18320							

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00042**	**.00023**	**-.00058**	**.00016**	**.00031**	**.00037**	**.00004**	**.00167**	**.00056**
Stddev	.00587	.00041	.00012	.00127	.00001	.00087	.00564	.00026	.00002	.00000
%RSD	4424.0	98.879	50.576	220.15	8.6142	283.06	1520.9	657.37	.98260	.65919
#1	.00402	.00013	.00031	-.00148	.00015	.00092	.00436	.00023	.00165	.00056
#2	-.00428	.00071	.00015	.00032	.00017	-.00031	-.00362	-.00015	.00168	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4001.5**	**48402.**	**5433.0**
Stddev	62.0	152.	39.8
%RSD	1.5486	.31412	.73240
#1	3957.6	48294.	5404.9
#2	4045.3	48509.	5461.1

Sample Name: CCVL1171013 Acquired: 12/13/2011 22:32:50 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01076**	**.11405**	**.01438**	**.11109**	**.01054**	**.00097**	**.11826**	**.21059**	**.00531**	**.01138**	**.01075**	**.01558**	**.10228**	**3.3650**
Stddev	.00045	.00034	.00199	.00019	.00009	.00005	.00094	.00162	.00008	.00003	.00006	.00010	.00161	.0019
%RSD	4.2238	.29498	13.828	.16875	.89125	4.6333	.79646	.76786	1.4391	.26770	.56487	.63831	1.5739	.05635
#1	.01108	.11429	.01578	.11122	.01061	.00101	.11759	.21173	.00526	.01141	.01071	.01565	.10342	3.3636
#2	.01043	.11381	.01297	.11096	.01047	.00094	.11892	.20945	.00537	.01136	.01079	.01551	.10115	3.3663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01135**	**.22069**	**.01095**	**.02165**	**1.2974**	**.04391**	**3.2686**	**.01028**	**.01898**	**.00929**	**.01517**	**.52157**	**1.1162**	**.11199**
Stddev	.00167	.00062	.00005	.00014	.0026	.00008	.0073	.00006	.00527	.00015	.00095	.00094	.0020	.00071
%RSD	14.668	.28172	.47397	.65303	.20152	.17821	.22191	.60255	27.773	1.5872	6.2757	.17973	.17973	.63257
#1	.01253	.22113	.01091	.02175	1.2955	.04397	3.2635	.01033	.01525	.00918	.01450	.52091	1.1147	.11249
#2	.01018	.22025	.01099	.02155	1.2992	.04386	3.2738	.01024	.02271	.00939	.01585	.52223	1.1176	.11149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01086**	**.01571**	**.01115**	**.01890**	**.06558**	**.01020**	**.02347**	**.01812**
Stddev	.00003	.00132	.00017	.00183	.02008	.00015	.00019	.00130
%RSD	.28841	8.4295	1.5013	9.6888	30.623	1.4655	.80219	7.1549
#1	.01084	.01478	.01127	.02019	.07978	.01009	.02334	.01720
#2	.01088	.01665	.01103	.01760	.05138	.01031	.02360	.01903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4040.8**	**48905.**	**5599.4**
Stddev	1.2	283.	7.9
%RSD	.02925	.57923	.14118
#1	4040.0	49105.	5593.8
#2	4041.7	48705.	5604.9

Sample Name: mb 280-99565/1-a Acquired: 12/13/2011 22:35:14 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99565 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00864**	**-.00128**	**.00095**	**.00000**	**.00003**	**.00081**	**.01340**	**.00008**	**.00018**
Stddev	.00007	.00037	.00240	.00023	.00001	.00001	.00247	.00421	.00017	.00015
%RSD	17.624	4.2916	186.81	23.672	177.67	26.531	307.25	31.425	227.10	78.638
#1	-.00043	.00890	-.00298	.00111	.00001	.00003	.00255	.01638	.00020	.00029
#2	-.00034	.00838	.00041	.00079	.00000	.00004	-.00094	.01042	-.00005	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00006**	**.00381**	**.11666**	**.00083**	**.00345**	**.00024**	**-.00015**	**.35055**	**-.00031**
Stddev	.00000	.00019	.00147	.02015	.00363	.00091	.00001	.00008	.00605	.00024
%RSD	.01943	326.60	38.686	17.270	436.44	26.501	6.2758	54.372	1.7270	77.012
#1	.00018	.00019	.00277	.10241	-.00174	.00280	.00025	-.00021	.35483	-.00014
#2	.00018	-.00008	.00485	.13090	.00340	.00409	.00023	-.00009	.34627	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**-.00003**	F **.05018**	**-.00085**	**.00009**	W **-.00959**	W **-.02052**	**.00013**	**.00009**	**-.00113**
Stddev	.00101	.00059	.00559	.00069	.00115	.00070	.00150	.00066	.00005	.00035
%RSD	75.231	1990.1	11.134	81.741	1231.6	7.2953	7.2953	513.57	54.380	31.170
#1	.00063	.00039	.05413	-.00134	.00091	-.00909	-.01946	.00060	.00013	-.00139
#2	.00207	-.00045	.04623	-.00036	-.00072	-.01008	-.02157	-.00034	.00006	-.00088
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			.01000			.00500	.00500			
Low Limit			-.01000			-.00500	-.00500			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00010**	**-.01261**	**-.00041**	**.00257**	**.00354**
Stddev	.00022	.00053	.01012	.00021	.00029	.00045
%RSD	437.89	531.51	80.256	49.823	11.256	12.614
#1	-.00011	-.00048	-.00546	-.00056	.00237	.00385
#2	.00021	.00028	-.01977	-.00027	.00278	.00322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3999.1**	**49047.**	**5487.5**
Stddev	15.0	30.	40.3
%RSD	.37487	.06154	.73483
#1	4009.7	49068.	5458.9
#2	3988.5	49026.	5516.0

Sample Name: lcs 280-99565/2-a Acquired: 12/13/2011 22:37:39 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99565 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05078**	**1.9536**	**1.0131**	**1.0084**	**1.9922**	**.04930**	**2.0850**	**48.175**	**.10004**	**.49328**
Stddev	.00033	.0047	.0007	.0018	.0094	.00003	.0032	.137	.00054	.00102
%RSD	.64023	.23937	.06778	.17918	.47209	.06138	.15318	.28451	.54289	.20625
#1	.05055	1.9569	1.0136	1.0097	1.9989	.04928	2.0828	48.272	.10043	.49400
#2	.05101	1.9503	1.0126	1.0071	1.9856	.04932	2.0873	48.078	.09966	.49256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20204**	**.24883**	**1.0116**	**50.187**	**1.0097**	**48.955**	**.49497**	**1.0094**	**52.728**	**.50152**
Stddev	.00011	.00117	.0080	.249	.0041	.065	.00061	.0020	.634	.00162
%RSD	.05570	.47077	.79353	.49551	.40559	.13286	.12313	.20045	1.2022	.32359
#1	.20212	.24800	1.0173	50.363	1.0126	48.909	.49540	1.0108	53.176	.50266
#2	.20196	.24966	1.0059	50.011	1.0068	49.001	.49454	1.0079	52.279	.50037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.132**	**.49696**	**.01653**	**.49904**	**1.9679**	**9.7771**	F **20.923**	**2.0057**	**1.0107**	**1.0281**
Stddev	.040	.00077	.00913	.00031	.0053	.0331	.071	.0101	.0032	.0025
%RSD	.39183	.15474	55.229	.06206	.26695	.33889	.33889	.50220	.31815	.24003
#1	10.160	.49642	.02299	.49926	1.9716	9.8005	20.973	2.0128	1.0130	1.0264
#2	10.104	.49751	.01008	.49882	1.9642	9.7537	20.873	1.9986	1.0084	1.0298
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							24.610			
Low Limit							20.100			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0243**	**1.9784**	**2.1667**	**.49525**	**.48874**	**.49759**
Stddev	.0003	.0031	.0070	.00091	.00164	.00430
%RSD	.02501	.15541	.32540	.18473	.33525	.86403
#1	1.0241	1.9806	2.1617	.49590	.48990	.50063
#2	1.0245	1.9763	2.1717	.49460	.48758	.49455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3893.0**	**46591.**	**5487.6**
Stddev	18.1	177.	29.2
%RSD	.46384	.38027	.53147
#1	3880.3	46466.	5467.0
#2	3905.8	46717.	5508.2

Sample Name: 280-23624-i-1-a Acquired: 12/13/2011 22:39:47 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99565 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00080**	**.00895**	**-.00183**	**3.5473**	**.35496**	**.00000**	**.00296**	**18.112**	**-.00002**	**-.00034**
Stddev	.00104	.00018	.00026	.0028	.00279	.00001	.00180	.123	.00009	.00009
%RSD	129.40	1.9682	14.201	.07880	.78652	1970.1	60.927	.67799	404.22	27.551
#1	-.00007	.00883	-.00165	3.5493	.35694	.00001	.00168	18.198	-.00009	-.00027
#2	-.00154	.00908	-.00202	3.5453	.35299	-.00001	.00423	18.025	.00004	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00051**	**.30101**	**4.2988**	**.11420**	**5.2131**	**.01987**	**.00125**	W **1137.8**	**.00024**
Stddev	.00009	.00025	.00529	.0371	.00066	.0098	.00018	.00005	7.1	.00045
%RSD	26.606	49.667	1.7589	.86175	.57901	.18760	.91279	3.7129	.62830	188.89
#1	.00038	.00033	.30476	4.2726	.11467	5.2062	.02000	.00122	1142.9	.00056
#2	.00026	.00069	.29727	4.3250	.11373	5.2200	.01974	.00129	1132.8	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.61664**	**-.00066**	**.54400**	**-.00188**	**.00156**	**4.0984**	**8.7706**	**-.00096**	**.96863**	**-.00152**
Stddev	.00808	.00025	.01707	.00014	.00026	.0396	.0847	.00009	.00611	.00073
%RSD	1.3096	37.272	3.1385	7.3522	16.564	.96604	.96604	9.0013	.63129	47.778
#1	.61093	-.00084	.53192	-.00178	.00138	4.1264	8.8305	-.00090	.97295	-.00101
#2	.62235	-.00049	.55607	-.00198	.00174	4.0704	8.7107	-.00102	.96430	-.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00025**	**-.02788**	**-.00054**	**.00498**	**.00130**
Stddev	.00019	.00091	.01248	.00036	.00004	.00020
%RSD	48.261	359.94	44.780	65.922	.70543	15.611
#1	.00052	-.00039	-.01905	-.00079	.00501	.00115
#2	.00026	.00090	-.03670	-.00029	.00496	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3650.0**	**41623.**	**5390.3**
Stddev	2.2	4.	38.7
%RSD	.06018	.00875	.71790
#1	3648.4	41626.	5362.9
#2	3651.5	41621.	5417.7

Sample Name: 280-23624-i-1-aSD@5 Acquired: 12/13/2011 22:42:15 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99565 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00647**	**-.00276**	**.73035**	**.07278**	**.00000**	**.00149**	**3.7667**	**.00014**	**-.00009**
Stddev	.00057	.00057	.00124	.00216	.00044	.00000	.00073	.0125	.00010	.00009
%RSD	716.70	8.8280	45.037	.29600	.60407	116.93	49.212	.33174	70.653	96.617
#1	.00049	.00687	-.00188	.73188	.07247	.00001	.00201	3.7578	.00021	-.00003
#2	-.00033	.00606	-.00364	.72882	.07309	.00000	.00097	3.7755	.00007	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**-.00014**	**.06777**	**1.0715**	**.02455**	**1.0850**	**.00400**	**.00007**	**235.97**	**.00011**
Stddev	.00006	.00024	.00128	.0666	.00137	.0020	.00000	.00016	1.64	.00027
%RSD	13.367	172.21	1.8819	6.2116	5.5718	.18260	.06781	246.75	.69365	255.82
#1	.00042	.00003	.06867	1.0245	.02551	1.0836	.00400	-.00005	234.81	-.00009
#2	.00051	-.00032	.06686	1.1186	.02358	1.0864	.00400	.00018	237.13	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13492**	**-.00064**	**.12717**	**-.00262**	**.00167**	**.83342**	**1.7835**	**-.00004**	**.19973**	**-.00084**
Stddev	.00081	.00170	.00311	.00003	.00536	.01105	.0237	.00082	.00166	.00142
%RSD	.59686	266.83	2.4442	1.2610	321.93	1.3259	1.3259	2094.1	.83133	169.06
#1	.13549	.00056	.12937	-.00259	-.00213	.82561	1.7668	-.00062	.19855	.00016
#2	.13435	-.00183	.12498	-.00264	.00546	.84124	1.8002	.00054	.20090	-.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00080**	**-.00558**	**.00003**	**.00350**	**.00041**
Stddev	.00042	.00173	.01675	.00035	.00002	.00130
%RSD	460.14	217.11	300.37	1231.2	.66295	321.82
#1	-.00020	.00203	-.01742	-.00022	.00348	-.00052
#2	.00039	-.00043	.00627	.00028	.00351	.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3858.1**	**45348.**	**5396.2**
Stddev	7.6	272.	28.9
%RSD	.19642	.60064	.53604
#1	3863.4	45541.	5375.8
#2	3852.7	45156.	5416.7

Sample Name: 280-23624-i-1-b ms Acquired: 12/13/2011 22:44:38 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99565 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05355**	**1.8639**	**1.0340**	**4.4579**	**2.3104**	**.04862**	F **2.0421**	**65.135**	**.10134**	**.47615**
Stddev	.00033	.0025	.0016	.0043	.0041	.00021	.0021	.329	.00016	.00048
%RSD	.62287	.13207	.15209	.09591	.17627	.44054	.10232	.50471	.15732	.10178
#1	.05379	1.8657	1.0351	4.4609	2.3133	.04877	2.0406	65.367	.10123	.47649
#2	.05331	1.8622	1.0329	4.4549	2.3075	.04847	2.0435	64.903	.10145	.47581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19683**	**.25135**	**1.2327**	**54.934**	**1.1220**	**52.016**	**.51145**	**.98551**	W **1181.8**	**.48146**
Stddev	.00021	.00021	.0170	.181	.0019	.194	.00159	.00145	4.1	.00203
%RSD	.10592	.08287	1.3772	.32981	.17423	.37264	.31055	.14739	.34948	.42167
#1	.19668	.25150	1.2447	55.062	1.1234	52.153	.51258	.98654	1184.7	.48290
#2	.19698	.25121	1.2207	54.806	1.1206	51.879	.51033	.98449	1178.9	.48003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **11.059**	**.46895**	**.52344**	**.49398**	**1.9765**	**13.771**	**29.471**	**1.9224**	**1.9631**	**1.0264**
Stddev	.011	.00513	.00071	.00016	.0139	.047	.101	.0042	.0064	.0017
%RSD	.10157	1.0939	.13651	.03262	.70136	.34342	.34342	.22063	.32493	.16204
#1	11.067	.47258	.52395	.49387	1.9863	13.805	29.542	1.9254	1.9676	1.0252
#2	11.052	.46533	.52293	.49410	1.9667	13.738	29.399	1.9194	1.9586	1.0276
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0180**	**1.7598**	**2.0486**	**.49950**	**.51022**	**.49313**
Stddev	.0001	.0002	.0101	.00078	.00277	.00218
%RSD	.01336	.01072	.49440	.15683	.54232	.44215
#1	1.0181	1.7596	2.0558	.50006	.51218	.49467
#2	1.0179	1.7599	2.0415	.49895	.50826	.49159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3610.1**	**41494.**	**5311.0**
Stddev	2.8	42.	7.2
%RSD	.07817	.10192	.13648
#1	3612.1	41523.	5305.9
#2	3608.1	41464.	5316.1

Sample Name: 280-23624-i-1-c msd Acquired: 12/13/2011 22:46:52 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99565 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05256**	**1.8559**	**1.0307**	**4.4647**	**2.2890**	**.04855**	F **2.0461**	**64.607**	**.10135**	**.47417**
Stddev	.00018	.0056	.0061	.0086	.0029	.00001	.0081	.024	.00020	.00052
%RSD	.33977	.29945	.59568	.19247	.12884	.02979	.39794	.03669	.19860	.10902
#1	.05269	1.8598	1.0350	4.4708	2.2911	.04854	2.0519	64.590	.10149	.47453
#2	.05243	1.8520	1.0264	4.4586	2.2869	.04856	2.0404	64.623	.10120	.47380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19623**	**.24909**	**1.2226**	**54.920**	**1.1192**	**51.932**	**.50660**	**.98968**	W **1171.5**	**.48104**
Stddev	.00021	.00032	.0003	.119	.0003	.169	.00032	.00199	1.1	.00036
%RSD	.10909	.12891	.02519	.21608	.02983	.32447	.06275	.20111	.09575	.07532
#1	.19638	.24931	1.2224	54.836	1.1194	52.051	.50682	.99109	1170.7	.48130
#2	.19608	.24886	1.2228	55.004	1.1190	51.813	.50637	.98827	1172.3	.48078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **11.121**	**.46749**	**.51758**	**.50098**	**1.9912**	**13.796**	**29.522**	**1.9292**	**1.9510**	**1.0150**
Stddev	.021	.00037	.00324	.00363	.0002	.049	.105	.0031	.0016	.0013
%RSD	.18844	.07836	.62551	.72453	.00809	.35539	.35539	.16226	.08131	.12395
#1	11.136	.46723	.51986	.50354	1.9913	13.761	29.448	1.9314	1.9521	1.0142
#2	11.106	.46775	.51529	.49841	1.9911	13.830	29.597	1.9270	1.9499	1.0159
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0182**	**1.7660**	**2.0098**	**.49371**	**.50665**	**.49291**
Stddev	.0005	.0069	.0281	.00027	.00020	.00227
%RSD	.05014	.38844	1.4002	.05368	.03940	.46100
#1	1.0178	1.7709	2.0297	.49352	.50679	.49452
#2	1.0185	1.7612	1.9899	.49389	.50651	.49130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3649.9**	**42029.**	**5396.3**
Stddev	8.5	118.	28.3
%RSD	.23196	.28186	.52428
#1	3643.9	42113.	5416.3
#2	3655.8	41945.	5376.3

Sample Name: 280-23624-i-2-a Acquired: 12/13/2011 22:49:07 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99565 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00418**	**-.00196**	**3.0764**	**.33058**	**-.00001**	**.00511**	**16.892**	**.00007**	**-.00021**
Stddev	.00091	.00025	.00254	.0055	.00110	.00001	.00037	.035	.00006	.00009
%RSD	380.88	6.1053	129.31	.17730	.33185	69.082	7.2605	.20654	88.817	45.387
#1	.00088	.00436	-.00017	3.0725	.32981	-.00002	.00485	16.867	.00003	-.00014
#2	-.00040	.00400	-.00376	3.0802	.33136	-.00001	.00537	16.917	.00012	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00135**	**.11577**	**4.3796**	**.09772**	**4.8232**	**.01960**	**.00154**	W **1018.1**	**.00250**
Stddev	.00015	.00026	.00230	.0428	.00047	.0004	.00014	.00000	1.8	.00037
%RSD	31.208	19.090	1.9849	.97667	.47600	.00786	.72562	.23419	.17400	14.709
#1	.00037	.00153	.11740	4.3493	.09805	4.8229	.01970	.00154	1016.8	.00276
#2	.00059	.00117	.11415	4.4098	.09739	4.8234	.01950	.00154	1019.3	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.54772**	**-.00023**	**.26777**	**-.00146**	**-.00449**	**3.7222**	**7.9655**	**.00005**	**.85166**	**-.00132**
Stddev	.00093	.00085	.00332	.00177	.00430	.0027	.0058	.00035	.00235	.00138
%RSD	.16999	373.88	1.2389	121.56	95.879	.07249	.07249	700.22	.27567	105.27
#1	.54838	.00037	.27011	-.00020	-.00144	3.7241	7.9695	.00029	.85000	-.00034
#2	.54706	-.00083	.26542	-.00271	-.00753	3.7203	7.9614	-.00019	.85332	-.00229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.00215**	**.01663**	**-.00002**	**.00483**	**.00131**
Stddev	.00042	.00028	.00837	.00004	.00001	.00132
%RSD	52.095	13.050	50.327	179.47	.28203	101.01
#1	.00051	.00195	.01071	-.00005	.00484	.00037
#2	.00112	.00234	.02255	.00001	.00482	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3701.1**	**42329.**	**5447.5**
Stddev	13.6	15.	32.0
%RSD	.36843	.03548	.58750
#1	3710.7	42340.	5470.2
#2	3691.5	42319.	5424.9

Sample Name: 280-23624-i-3-a Acquired: 12/13/2011 22:51:37 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99565 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00928**	**-.00259**	**3.8843**	**.42340**	**-.00001**	**.00141**	**17.860**	**.00000**	**-.00024**
Stddev	.00053	.00166	.00241	.0141	.00316	.00005	.00265	.061	.0000	.00015
%RSD	235.88	17.901	93.007	.36314	.74693	958.67	187.57	.33880	514.11	65.043
#1	.00015	.01046	-.00089	3.8743	.42563	-.00004	.00329	17.903	.00001	-.00013
#2	-.00060	.00811	-.00430	3.8942	.42116	.00003	-.00046	17.818	-.00002	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00243**	**.01083**	**4.7041**	**.13001**	**5.1699**	**.01822**	**.00035**	W **1275.2**	**.00004**
Stddev	.00006	.00003	.00030	.0245	.00238	.0223	.00002	.00023	2.1	.00017
%RSD	27.260	1.2973	2.7546	.52053	1.8308	.43123	.10880	66.272	.16826	433.65
#1	.00018	.00241	.01062	4.7214	.13169	5.1541	.01824	.00018	1276.7	.00016
#2	.00026	.00245	.01104	4.6867	.12832	5.1856	.01821	.00051	1273.7	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.73682**	**.00119**	**.06731**	**-.00101**	**.00035**	**4.2678**	**9.1332**	**-.00102**	**1.0389**	**-.00049**
Stddev	.00510	.00042	.00427	.00100	.00227	.0510	.1090	.00072	.0038	.00107
%RSD	.69262	34.981	6.3481	98.641	653.73	1.1939	1.1939	69.954	.36552	216.11
#1	.73321	.00149	.06429	-.00171	-.00126	4.3039	9.2103	-.00052	1.0416	-.00125
#2	.74043	.00090	.07033	-.00031	.00195	4.2318	9.0561	-.00153	1.0362	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00189**	**-.02771**	**-.00019**	**.01724**	**.00208**
Stddev	.00004	.00104	.02104	.00041	.00018	.00013
%RSD	9.6519	55.138	75.956	216.91	1.0172	6.3287
#1	.00048	.00263	-.04259	-.00048	.01737	.00217
#2	.00042	.00116	-.01283	.00010	.01712	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3644.9**	**41577.**	**5389.3**
Stddev	5.8	148.	21.9
%RSD	.15808	.35590	.40610
#1	3649.0	41681.	5373.8
#2	3640.9	41472.	5404.8

Sample Name: 280-23624-i-4-a Acquired: 12/13/2011 22:54:05 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99565 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	W **-.06320**	**.00157**	**.79798**	**.02444**	**-.00002**	**.00168**	**485.98**	**.00109**	**-.00001**
Stddev	.00068	.00079	.00079	.00271	.00002	.00000	.00064	3.99	.00008	.00006
%RSD	126.22	1.2441	49.992	.33946	.09279	17.353	38.002	.82053	7.5944	406.37
#1	-.00006	-.06264	.00102	.79606	.02445	-.00002	.00123	483.16	.00103	.00003
#2	-.00102	-.06375	.00213	.79989	.02442	-.00002	.00213	488.80	.00114	-.00006
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2.5000								
Low Limit		-.05000								

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**.00769**	**.16849**	**19.304**	**.13729**	**216.45**	**.01376**	**.00811**	W **1214.7**	**.00806**
Stddev	.00027	.00001	.00210	.120	.00138	1.75	.00003	.00041	5.6	.00011
%RSD	23.042	.17940	1.2460	.62365	1.0031	.80841	.19775	5.0804	.46464	1.4050
#1	.00137	.00770	.16701	19.389	.13826	215.22	.01378	.00841	1218.7	.00798
#2	.00099	.00768	.16998	19.219	.13632	217.69	.01374	.00782	1210.7	.00814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16807**	**.00109**	F **1000.9**	**-.00860**	**.00199**	**12.377**	**26.487**	**-.00241**	W **6.0237**	**-.00150**
Stddev	.00506	.00037	1.5	.00161	.00061	.106	.227	.00082	.0691	.00009
%RSD	3.0120	33.974	.14973	18.666	30.643	.85798	.85798	33.818	1.1471	6.0547
#1	.17165	.00082	1002.0	-.00973	.00242	12.452	26.648	-.00299	5.9749	-.00144
#2	.16449	.00135	999.87	-.00746	.00156	12.302	26.327	-.00183	6.0726	-.00157
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit			200.00						5.0000	
Low Limit			-.20000						-.01000	

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00242**	**.00062**	**.06948**	**.00292**	**.02133**	**.00062**
Stddev	.00021	.00046	.00595	.00057	.00003	.00007
%RSD	8.6751	74.249	8.5690	19.640	.12162	12.032
#1	.00257	.00029	.06527	.00332	.02135	.00056
#2	.00227	.00094	.07369	.00251	.02131	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3473.3**	**40879.**	**5370.6**
Stddev	3.7	22.	49.6
%RSD	.10656	.05445	.92324
#1	3475.9	40863.	5335.5
#2	3470.7	40894.	5405.6

Sample Name: 280-23251-e-2-e Acquired: 12/13/2011 22:56:51 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99565 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.03270**	**.00272**	**4.4563**	**.01989**	**.00001**	**.00422**	**38.576**	**.00001**	**-.00044**
Stddev	.00108	.00024	.00129	.0241	.00013	.00002	.00128	.078	.00015	.00006
%RSD	277.86	.73274	47.538	.53988	.65465	122.21	30.467	.20157	2123.5	13.711
#1	-.00115	.03287	.00181	4.4733	.01980	.00003	.00513	38.521	.00012	-.00040
#2	.00037	.03253	.00364	4.4393	.01999	.00000	.00331	38.631	-.00010	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**.00057**	**.16876**	**5.7814**	**.07081**	**16.817**	**.13131**	**.01480**	W **1644.9**	**.00071**
Stddev	.00010	.00004	.00021	.0396	.00074	.031	.00033	.00024	4.7	.00004
%RSD	14.074	7.2952	.12356	.68545	1.0495	.18294	.24879	1.5931	.28702	4.9879
#1	.00061	.00054	.16861	5.7533	.07134	16.839	.13108	.01497	1641.6	.00068
#2	.00075	.00060	.16891	5.8094	.07029	16.795	.13154	.01463	1648.2	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12256**	**.00059**	F **759.52**	**-.00214**	**-.00101**	**4.5567**	**9.7513**	**-.00108**	**1.8043**	**-.00054**
Stddev	.00322	.00009	6.49	.00024	.00394	.0185	.0396	.00020	.0055	.00010
%RSD	2.6261	15.501	.85442	11.100	389.85	.40663	.40663	18.965	.30569	18.696
#1	.12483	.00052	764.11	-.00231	.00177	4.5436	9.7233	-.00093	1.8004	-.00062
#2	.12028	.00065	754.93	-.00197	-.00379	4.5698	9.7794	-.00122	1.8082	-.00047
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			200.00							
Low Limit			-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00326**	**.00061**	**-.00989**	**.00111**	**.00552**	**.00112**
Stddev	.00005	.00064	.00372	.00003	.00006	.00099
%RSD	1.5085	103.52	37.624	2.3023	1.1513	88.161
#1	.00322	.00016	-.01252	.00109	.00548	.00182
#2	.00329	.00106	-.00726	.00113	.00557	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3639.9**	**41792.**	**5504.0**
Stddev	8.1	23.	10.9
%RSD	.22143	.05490	.19816
#1	3634.2	41776.	5511.7
#2	3645.6	41808.	5496.3

Sample Name: CCVH-1169743 Acquired: 12/13/2011 22:59:19 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**49.689**	**-.00153**	**.01137**	**.00037**	**-.00014**	**1.0042**	**.00352**	**-.00070**	**.00083**	**.00039**	**-.00184**	**49.445**
Stddev	.00041	.226	.00219	.00100	.00013	.00007	.0008	.00040	.00020	.00007	.00001	.00029	.277
%RSD	36.253	.45445	142.90	8.8268	34.456	47.454	.08219	11.353	29.002	8.8934	2.0652	15.636	.56054
#1	-.00142	49.848	.00002	.01208	.00028	-.00019	1.0048	.00324	-.00085	.00088	.00039	-.00164	49.641
#2	-.00084	49.529	-.00308	.01066	.00046	-.00009	1.0036	.00381	-.00056	.00077	.00038	-.00204	49.249
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30983**	**.00219**	**-.00137**	**-.00154**	**-.00167**	**250.21**	**.00088**	**.00762**	**-.00118**	**5.0427**	**-.00246**	**.00452**	**.01630**
Stddev	.05625	.00034	.00289	.00006	.00013	.47	.00018	.00228	.00021	.0200	.00024	.00232	.00894
%RSD	18.155	15.315	211.10	3.5923	7.7475	.18791	20.470	29.896	17.542	.39749	9.7980	51.342	54.875
#1	.34961	.00195	.00067	-.00150	-.00158	250.55	.00101	.00923	-.00132	5.0569	-.00229	.00288	.00997
#2	.27006	.00243	-.00341	-.00157	-.00176	249.88	.00076	.00601	-.00103	5.0285	-.00263	.00616	.02262
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03487**	**.00155**	**.00045**	**4.9209**	**.00163**	**-.00305**	**10.195**	**-.00076**	**.00159**	**-.01599**
Stddev	.01914	.00086	.00000	.0052	.00013	.00205	.042	.00012	.00037	.00017
%RSD	54.875	55.352	.74495	.10571	7.9314	67.459	.41018	15.480	23.202	1.0450
#1	.02134	.00215	.00045	4.9172	.00172	-.00450	10.165	-.00067	.00185	-.01611
#2	.04840	.00094	.00045	4.9246	.00154	-.00159	10.224	-.00084	.00133	-.01588
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3932.3**	**46999.**	**5582.7**
Stddev	.5	75.	6.4
%RSD	.01341	.15909	.11444
#1	3932.7	47052.	5587.2
#2	3932.0	46946.	5578.2

Sample Name: CCV-1169927 Acquired: 12/13/2011 23:01:40 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48755**	**.51093**	**.98888**	**.50328**	**.49643**	**.49790**	**.00251**	**4.9974**	**.49892**	**.50550**	**.50692**	**.49562**	**2.4203**
Stddev	.00152	.00304	.00229	.00016	.00058	.00114	.00236	.0082	.00099	.00074	.00173	.00041	.0073
%RSD	.31260	.59445	.23179	.03238	.11697	.22984	94.202	.16380	.19828	.14556	.34198	.08176	.30269
#1	.48647	.50878	.98726	.50340	.49684	.49871	.00418	4.9916	.49822	.50498	.50570	.49590	2.4255
#2	.48863	.51307	.99050	.50317	.49602	.49709	.00084	5.0032	.49962	.50602	.50815	.49533	2.4152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.832**	**1.0255**	**19.664**	**.49158**	**.50203**	**5.3547**	**.50609**	**1.0006**	**.99286**	**.08602**	**.99220**	**.98022**	**4.9129**
Stddev	.183	.0034	.181	.00413	.00120	.0045	.00025	.0005	.00077	.00287	.00189	.00081	.0033
%RSD	.36027	.33427	.92154	.84114	.23867	.08381	.04899	.05155	.07712	3.3344	.19016	.08247	.06761
#1	50.961	1.0279	19.536	.48866	.50119	5.3516	.50591	1.0003	.99231	.08804	.99087	.97965	4.9152
#2	50.702	1.0230	19.793	.49450	.50288	5.3579	.50626	1.0010	.99340	.08399	.99354	.98079	4.9105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.514**	**1.0051**	**.51073**	**-.00125**	**.50192**	**1.0090**	**-.00372**	**.49034**	**.49701**	**.49548**
Stddev	.007	.0042	.00188	.00005	.00215	.0004	.03280	.00266	.00799	.00198
%RSD	.06761	.41950	.36858	3.7797	.42914	.04335	881.74	.54185	1.6082	.39923
#1	10.519	1.0021	.51206	-.00128	.50040	1.0093	.01947	.48846	.49136	.49688
#2	10.509	1.0081	.50940	-.00122	.50344	1.0087	-.02692	.49222	.50267	.49408
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4006.6**	**48404.**	**5515.5**
Stddev	11.2	494.	29.1
%RSD	.28046	1.0200	.52810
#1	4014.6	48753.	5536.1
#2	3998.7	48055.	5494.9

Sample Name: CCB Acquired: 12/13/2011 23:03:51 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00382**	**.00086**	F **.00551**	**.00005**	**.00018**	**-.00098**	**-.00102**	**.00003**	**.00011**	**.00012**	**-.00040**	**-.00011**
Stddev	.00016	.00056	.00047	.00009	.00033	.00020	.00039	.00267	.00008	.00012	.00008	.00001	.00066
%RSD	33.354	14.603	53.895	1.6708	708.70	112.47	39.558	262.80	267.36	103.81	65.398	3.5314	570.17
#1	-.00058	.00342	.00054	.00545	.00028	.00033	-.00125	.00087	.00008	.00003	.00006	-.00039	.00035
#2	-.00036	.00421	.00119	.00558	-.00018	.00004	-.00070	-.00290	-.00003	.00019	.00017	-.00041	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00312									
Low Limit				-.00312									

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17770**	**.00220**	**-.00139**	**.00008**	**.00018**	F **.27555**	**-.00012**	**.00255**	**-.00052**	**.07699**	**.00103**	**.00066**	**-.00275**
Stddev	.01727	.00139	.00064	.00000	.00024	.00289	.00015	.00073	.00101	.00079	.00052	.00038	.01108
%RSD	9.7211	63.464	45.676	5.6416	134.16	1.0473	126.77	28.568	195.19	1.0198	50.548	57.222	402.17
#1	.18992	.00318	-.00184	.00008	.00035	.27759	-.00001	.00203	-.00123	.07755	.00140	.00040	-.01059
#2	.16549	.00121	-.00094	.00007	.00001	.27351	-.00022	.00306	.00020	.07643	.00066	.00093	.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						.18300							
Low Limit						-.18320							

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00590**	**-.00047**	**.00015**	**.00041**	**.00017**	**.00012**	**-.01599**	**-.00039**	**.00139**	**.00028**
Stddev	.02371	.00075	.00014	.00156	.00030	.00029	.01958	.00025	.00007	.00067
%RSD	402.17	158.44	94.577	377.31	178.02	238.36	122.44	64.839	4.9486	238.35
#1	-.02266	-.00100	.00025	-.00069	-.00004	.00033	-.00215	-.00021	.00134	-.00019
#2	.01087	.00006	.00005	.00151	.00038	-.00008	-.02983	-.00057	.00144	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3990.3**	**48749.**	**5468.5**
Stddev	18.3	319.	13.8
%RSD	.45911	.65423	.25240
#1	3977.3	48974.	5458.7
#2	4003.3	48523.	5478.3

Sample Name: CCVL1171013 Acquired: 12/13/2011 23:06:17 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01007**	**.10888**	**.01378**	**.11265**	**.01041**	**.00103**	**.11593**	**.20976**	**.00528**	**.01082**	**.01062**	**.01564**	**.10110**
Stddev	.00055	.00230	.00152	.00107	.00009	.00003	.00111	.00105	.00008	.00003	.00012	.00013	.00153
%RSD	5.4160	2.1087	11.032	.95084	.88929	2.9355	.95904	.50006	1.5998	.31824	1.1047	.81586	1.5179
#1	.00968	.10726	.01271	.11189	.01035	.00101	.11514	.21050	.00534	.01079	.01053	.01573	.10002
#2	.01045	.11050	.01486	.11341	.01048	.00105	.11671	.20902	.00522	.01084	.01070	.01555	.10219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.3402**	**.01220**	**.21507**	**.01061**	**.02099**	F **1.3237**	**.04236**	**3.2014**	**.00967**	**.05730**	**.00948**	**.01346**	**.51539**
Stddev	.0128	.00060	.00077	.00002	.00031	.0069	.00053	.0198	.00110	.00287	.00053	.00482	.00665
%RSD	.38198	4.8936	.35823	.16749	1.4837	.52140	1.2513	.61787	11.366	5.0075	5.6150	35.789	1.2896
#1	3.3312	.01178	.21561	.01060	.02077	1.3285	.04198	3.1874	.01044	.05933	.00986	.01687	.51069
#2	3.3492	.01262	.21452	.01062	.02122	1.3188	.04273	3.2154	.00889	.05527	.00911	.01006	.52009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value						1.0000							
Range						30.000%							

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1029**	**.10876**	**.01058**	**.01510**	**.01076**	**.01884**	**.07055**	**.00982**	**.02341**	**.01684**
Stddev	.0142	.00073	.00008	.00144	.00005	.00164	.04228	.00003	.00007	.00019
%RSD	1.2896	.67287	.73333	9.5219	.44187	8.7192	59.935	.33855	.30489	1.1258
#1	1.0929	.10824	.01052	.01611	.01073	.02000	.04065	.00985	.02346	.01671
#2	1.1130	.10928	.01063	.01408	.01080	.01768	.10045	.00980	.02336	.01698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4134.7**	**49851.**	**5604.4**
Stddev	20.8	135.	52.3
%RSD	.50400	.27100	.93387
#1	4149.4	49756.	5567.4
#2	4120.0	49947.	5641.5

Sample Name: mb 280-99323/1-b Acquired: 12/13/2011 23:08:41 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99514 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00122**	**.00153**	**.00351**	**.00005**	**.00005**	**.00073**	**.00576**	**.00002**	**.00012**
Stddev	.00015	.00064	.00034	.00039	.00024	.00001	.00051	.00015	.00006	.00010
%RSD	116.07	52.117	22.045	11.103	520.37	25.394	68.942	2.6742	379.32	81.984
#1	.00002	.00167	.00177	.00323	.00022	.00004	.00109	.00587	-.00003	.00018
#2	.00023	.00077	.00129	.00378	-.00013	.00005	.00038	.00565	.00006	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00019**	**.00162**	**.07130**	**.00010**	**.00007**	**.00005**	**-.00005**	**.23363**	**-.00022**
Stddev	.00015	.00018	.00018	.01604	.00076	.00094	.00004	.00003	.00401	.00002
%RSD	150.43	95.212	11.195	22.499	765.58	1333.5	89.968	57.013	1.7173	7.7456
#1	.00001	-.00006	.00149	.08264	.00064	.00074	.00008	-.00007	.23079	-.00023
#2	-.00021	-.00031	.00175	.05996	-.00044	-.00060	.00002	-.00003	.23647	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00409**	**.00079**	F **.04839**	**-.00029**	**.00100**	W **-.00882**	W **-.01888**	**-.00021**	**.00008**	**.00022**
Stddev	.00064	.00052	.00188	.00268	.00063	.00733	.01570	.00007	.00004	.00139
%RSD	15.567	65.638	3.8775	936.86	62.662	83.120	83.120	31.849	44.116	637.49
#1	.00454	.00042	.04972	.00161	.00056	-.00364	-.00779	-.00016	.00011	-.00076
#2	.00364	.00115	.04706	-.00218	.00144	-.01401	-.02998	-.00025	.00006	.00120
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			.01000			.00500	.00500			
Low Limit			-.01000			-.00500	-.00500			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00006**	**-.01228**	**-.00008**	**.00329**	**-.00056**
Stddev	.00012	.00075	.01971	.00010	.00061	.00007
%RSD	134.77	1175.7	160.49	118.94	18.656	12.484
#1	.00000	-.00060	.00166	-.00001	.00373	-.00060
#2	.00017	.00047	-.02622	-.00015	.00286	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4090.0**	**49859.**	**5632.2**
Stddev	2.6	83.	25.0
%RSD	.06345	.16553	.44375
#1	4091.9	49800.	5614.5
#2	4088.2	49917.	5649.8

Sample Name: lcs 280-99323/2-b Acquired: 12/13/2011 23:11:06 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99514 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04949**	**1.9100**	**.98553**	**.98924**	**1.9530**	**.04866**	**2.0546**	**47.498**	**.09855**	**.48643**
Stddev	.00023	.0029	.00345	.00128	.0024	.00016	.0044	.084	.00026	.00049
%RSD	.47469	.15358	.35025	.12896	.12361	.32291	.21485	.17760	.26869	.09988
#1	.04933	1.9079	.98309	.98834	1.9547	.04877	2.0577	47.558	.09836	.48609
#2	.04966	1.9121	.98797	.99015	1.9513	.04854	2.0514	47.438	.09874	.48678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19860**	**.24596**	**.94017**	**49.857**	**1.0030**	**48.506**	**.48610**	**.99114**	**52.326**	**.49387**
Stddev	.00041	.00034	.00203	.079	.0015	.041	.00202	.00063	.018	.00023
%RSD	.20822	.13977	.21575	.15817	.15378	.08507	.41566	.06320	.03381	.04579
#1	.19890	.24620	.93874	49.913	1.0041	48.535	.48753	.99070	52.338	.49403
#2	.19831	.24571	.94161	49.801	1.0019	48.476	.48467	.99159	52.313	.49371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9406**	**.48546**	**.03850**	**.48717**	**1.9132**	**9.5942**	F **20.532**	**1.9711**	**1.0078**	**1.0126**
Stddev	.0185	.00229	.00078	.00164	.0014	.0027	.006	.0013	.0001	.0000
%RSD	.18593	.47088	2.0247	.33570	.07110	.02796	.02796	.06457	.01401	.00175
#1	9.9275	.48385	.03795	.48833	1.9142	9.5923	20.528	1.9702	1.0079	1.0126
#2	9.9537	.48708	.03905	.48602	1.9123	9.5961	20.536	1.9720	1.0077	1.0126
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							24.610			
Low Limit							20.100			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0134**	**1.9545**	**2.1295**	**.48717**	**.48324**	**.48804**
Stddev	.0003	.0002	.0139	.00163	.00214	.00287
%RSD	.03253	.01185	.65111	.33448	.44362	.58777
#1	1.0136	1.9543	2.1393	.48832	.48173	.49006
#2	1.0131	1.9546	2.1197	.48602	.48476	.48601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3949.1**	**46972.**	**5602.8**
Stddev	4.9	130.	22.8
%RSD	.12353	.27651	.40738
#1	3952.6	47064.	5586.7
#2	3945.7	46881.	5619.0

Sample Name: 280-23537-i-7-b Acquired: 12/13/2011 23:13:15 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99514 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	W **-.07549**	**.00562**	**2.2505**	**.01207**	**.00000**	**.00134**	**389.36**	**.00077**	**-.00019**
Stddev	.00113	.00019	.00425	.0011	.00005	.00005	.00126	7.02	.00010	.00009
%RSD	1076.4	.24787	75.531	.05059	.40219	1759.6	94.469	1.8036	12.890	48.119
#1	-.00069	-.07536	.00262	2.2497	.01204	.00004	.00044	384.40	.00070	-.00025
#2	.00090	-.07562	.00863	2.2513	.01211	-.00003	.00223	394.33	.00084	-.00012
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2.5000								
Low Limit		-.05000								

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00141**	**.00947**	**.00426**	**28.780**	**.31302**	W **701.52**	**.00037**	**.01177**	W **3394.2**	**.00127**
Stddev	.00014	.00043	.00001	.198	.00190	.99	.00013	.00039	17.7	.00002
%RSD	10.108	4.5457	.29946	.68656	.60727	.14180	34.613	3.3467	.52293	1.6866
#1	.00131	.00978	.00427	28.640	.31167	700.82	.00047	.01205	3381.7	.00125
#2	.00151	.00917	.00425	28.919	.31436	702.23	.00028	.01150	3406.8	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						500.00			500.00	
Low Limit						-.10000			10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07729**	**.00290**	F **2384.0**	**-.00516**	**.41909**	**10.090**	**21.593**	**-.00194**	W **11.437**	**-.00346**
Stddev	.00352	.00003	1.0	.00018	.00345	.058	.124	.00029	.083	.00038
%RSD	4.5599	1.2050	.04029	3.4618	.82286	.57357	.57357	14.919	.72192	11.078
#1	.07978	.00288	2383.4	-.00503	.41665	10.049	21.505	-.00174	11.495	-.00319
#2	.07479	.00293	2384.7	-.00528	.42153	10.131	21.680	-.00215	11.378	-.00373
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit			200.00						5.0000	
Low Limit			-.20000						-.01000	

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00143**	**-.00064**	**.24151**	**.00239**	**.01830**	**.00250**
Stddev	.00002	.00087	.00527	.00060	.00042	.00195
%RSD	1.3228	135.12	2.1829	25.030	2.3040	78.066
#1	.00141	-.00003	.23778	.00197	.01801	.00388
#2	.00144	-.00126	.24524	.00282	.01860	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3236.2**	**37499.**	**5239.5**
Stddev	2.1	76.	2.7
%RSD	.06545	.20221	.05207
#1	3237.7	37553.	5237.5
#2	3234.7	37446.	5241.4

Sample Name: 280-23537-i-8-b Acquired: 12/13/2011 23:16:00 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99514 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	W **-.07428**	**.00333**	**1.9306**	**.00943**	**.00000**	**.00048**	**340.09**	**.00086**	**-.00059**
Stddev	.00059	.00169	.00008	.0018	.00004	.00004	.00042	9.79	.00009	.00024
%RSD	423.49	2.2793	2.3633	.09457	.43718	856.49	87.410	2.8777	10.421	40.928
#1	-.00028	-.07547	.00339	1.9318	.00940	.00003	.00018	333.17	.00093	-.00042
#2	.00056	-.07308	.00328	1.9293	.00946	-.00002	.00077	347.02	.00080	-.00076
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2.5000								
Low Limit		-.05000								

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00123**	**.00407**	**.00324**	**37.949**	**.84202**	W **1185.2**	**.00060**	**.00031**	W **4851.6**	**.00121**
Stddev	.00003	.00001	.00179	.193	.00148	5.9	.00007	.00031	6.3	.00006
%RSD	2.3767	.15900	55.256	.50766	.17629	.49795	11.462	100.80	.13042	4.5717
#1	.00125	.00406	.00197	37.813	.84307	1181.0	.00055	.00009	4847.2	.00117
#2	.00121	.00407	.00450	38.085	.84097	1189.4	.00064	.00053	4856.1	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						500.00			500.00	
Low Limit						-.10000			10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04371**	**.00022**	F **2888.0**	**-.00623**	**.76109**	**5.0693**	**10.848**	**-.00242**	W **8.3660**	**-.00611**
Stddev	.00122	.00041	2.3	.00291	.00799	.0159	.034	.00038	.1725	.00254
%RSD	2.7907	183.28	.08027	46.791	1.0502	.31369	.31369	15.616	2.0615	41.631
#1	.04457	-.00007	2886.4	-.00417	.75544	5.0805	10.872	-.00215	8.2440	-.00431
#2	.04284	.00051	2889.7	-.00829	.76674	5.0580	10.824	-.00268	8.4879	-.00791
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit			200.00						5.0000	
Low Limit			-.20000						-.01000	

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.00047**	**.04097**	**.00091**	**.01472**	**.00234**
Stddev	.00002	.00128	.02103	.00036	.00041	.00038
%RSD	2.1126	270.98	51.329	39.181	2.7635	16.377
#1	-.00093	-.00043	.05583	.00066	.01500	.00207
#2	-.00096	.00137	.02610	.00116	.01443	.00262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3057.7**	**35513.**	**5228.5**
Stddev	.2	199.	50.0
%RSD	.00627	.55904	.95627
#1	3057.6	35653.	5263.9
#2	3057.9	35373.	5193.1

Sample Name: 280-23537-i-8-bSD@5 Acquired: 12/13/2011 23:18:45 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99514 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	W **-.05995**	**-.00218**	**.39654**	**.00200**	**.00004**	**.00259**	**73.135**	**.00048**	**-.00014**
Stddev	.00004	.00070	.00081	.00179	.00004	.00001	.00070	.060	.00026	.00026
%RSD	30.048	1.1700	37.309	.45089	2.0044	11.450	26.979	.08193	53.935	186.60
#1	-.00010	-.06044	-.00160	.39528	.00203	.00005	.00308	73.177	.00030	-.00032
#2	-.00015	-.05945	-.00275	.39781	.00197	.00004	.00209	73.093	.00066	.00004
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2.5000								
Low Limit		-.05000								

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.00111**	**.04394**	**7.2823**	**.15362**	**255.31**	**.00074**	**.00026**	W **958.56**	**.00017**
Stddev	.00017	.00012	.00015	.0077	.00120	1.03	.00000	.00018	.25	.00006
%RSD	16.159	10.738	.33791	.10601	.78292	.40151	.10367	68.827	.02639	35.192
#1	.00093	.00120	.04384	7.2877	.15447	256.03	.00074	.00013	958.74	.00021
#2	.00117	.00103	.04405	7.2768	.15277	254.58	.00074	.00038	958.38	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00356**	**.00027**	F **908.71**	**-.00228**	**.12440**	**1.0137**	**2.1694**	**-.00123**	**1.7251**	**-.00128**
Stddev	.00053	.00003	1.02	.00090	.00093	.0161	.0344	.00035	.0022	.00109
%RSD	15.022	10.449	.11240	39.503	.74392	1.5838	1.5838	28.276	.13051	84.816
#1	.00394	.00025	907.98	-.00164	.12375	1.0024	2.1451	-.00148	1.7236	-.00051
#2	.00318	.00029	909.43	-.00291	.12505	1.0251	2.1937	-.00098	1.7267	-.00205
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			200.00							
Low Limit			-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00039**	**-.02128**	**.00058**	**.00603**	**.00012**
Stddev	.00009	.00077	.01056	.00016	.00003	.00048
%RSD	31.665	195.83	49.647	27.059	.45382	385.34
#1	.00034	-.00015	-.01381	.00047	.00604	.00046
#2	.00022	.00093	-.02875	.00070	.00601	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3627.9**	**42270.**	**5424.8**
Stddev	10.8	171.	10.1
%RSD	.29706	.40420	.18589
#1	3635.6	42391.	5417.7
#2	3620.3	42150.	5431.9

Sample Name: 280-23537-i-8-c ms Acquired: 12/13/2011 23:21:20 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99514 6010B

Elem	Ag3280	Al1670	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288
Line	328.068 {103}	167.079 {502}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05736**	**1.5938**	W **2.7284**	**1.0825**	**2.8244**	**1.9109**	**.04513**	F **2.1158**	**381.11**	**.10631**
Stddev	.00083	.0044	.0533	.0019	.0142	.0210	.00055	.0181	.64	.00114
%RSD	1.4394	.27768	1.9535	.17294	.50420	1.0972	1.2213	.85305	.16889	1.0704
#1	.05794	1.5906	2.6907	1.0812	2.8143	1.8961	.04474	2.1030	380.65	.10550
#2	.05677	1.5969	2.7661	1.0838	2.8344	1.9257	.04552	2.1285	381.56	.10711
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			500.00					.10000		
Low Limit			3.2000					-.10000		

Elem	Co2286	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	228.616 {447}	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44059**	**.18745**	**.25825**	**.87157**	**88.849**	**1.9342**	W **1209.8**	**.45810**	**.93284**	W **4876.1**
Stddev	.00164	.00069	.00129	.01765	.833	.0141	3.9	.00140	.00532	28.9
%RSD	.37330	.36697	.49821	2.0247	.93738	.72950	.32526	.30595	.57070	.59183
#1	.43943	.18696	.25916	.85909	88.260	1.9242	1212.6	.45909	.92908	4855.7
#2	.44175	.18793	.25734	.88405	89.438	1.9441	1207.0	.45711	.93661	4896.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn
High Limit							500.00			500.00
Low Limit							-.10000			10.000

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44374**	W **11.114**	**.40841**	F **2890.7**	**.51208**	**3.1854**	**14.538**	**31.112**	**1.7354**	W **9.5458**
Stddev	.00199	.060	.00419	2.5	.00074	.0227	.154	.329	.0131	.1040
%RSD	.44782	.54165	1.0260	.08722	.14490	.71283	1.0561	1.0561	.75737	1.0892
#1	.44234	11.072	.40544	2889.0	.51156	3.1694	14.430	30.880	1.7261	9.4723
#2	.44515	11.157	.41137	2892.5	.51261	3.2015	14.647	31.344	1.7446	9.6194
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit		2.0000		200.00						5.0000
Low Limit		-1.0000		-.20000						-.01000

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	283.730 {119}	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98730**	**.98089**	**1.5288**	**1.9603**	**.47806**	**.45913**	**.47756**
Stddev	.00776	.00456	.0082	.0066	.00079	.00222	.01080
%RSD	.78584	.46495	.53380	.33826	.16552	.48332	2.2619
#1	.99279	.98412	1.5231	1.9650	.47862	.46070	.46992
#2	.98182	.97767	1.5346	1.9556	.47750	.45756	.48519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3073.1**	**36011.**	**5101.8**
Stddev	3.6	77.	43.9
%RSD	.11857	.21479	.86068
#1	3075.7	35957.	5132.9
#2	3070.6	36066.	5070.8

Sample Name: 280-23537-i-8-d msd Acquired: 12/13/2011 23:23:51 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99514 6010B

Elem	Ag3280	Al1670	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288
Line	328.068 {103}	167.079 {502}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05926**	**1.6600**	W **2.7427**	**1.1211**	**2.9217**	**1.9501**	**.04621**	F **2.2042**	**386.20**	**.11076**
Stddev	.00031	.0031	.0310	.0057	.0051	.0099	.00046	.0046	4.79	.00012
%RSD	.51836	.18573	1.1292	.50939	.17364	.50853	.98562	.20697	1.2399	.10777
#1	.05947	1.6621	2.7646	1.1171	2.9181	1.9431	.04589	2.2074	382.81	.11067
#2	.05904	1.6578	2.7208	1.1252	2.9253	1.9571	.04654	2.2009	389.58	.11084
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			500.00					.10000		
Low Limit			3.2000					-.10000		

Elem	Co2286	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	228.616 {447}	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45757**	**.19446**	**.26843**	**.88514**	**90.374**	**1.9791**	W **1229.1**	**.47269**	**.97023**	W **4959.8**
Stddev	.00012	.00020	.00059	.00140	.658	.0079	.9	.00228	.00262	31.5
%RSD	.02692	.10094	.21824	.15781	.72841	.39935	.07442	.48228	.27025	.63445
#1	.45765	.19432	.26801	.88613	89.908	1.9736	1229.8	.47108	.96837	4937.5
#2	.45748	.19460	.26884	.88415	90.839	1.9847	1228.5	.47430	.97208	4982.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn
High Limit							500.00			500.00
Low Limit							-.10000			10.000

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46068**	W **11.578**	**.42521**	F **2934.5**	**.53148**	**3.3123**	**14.701**	**31.460**	**1.7968**	W **9.5823**
Stddev	.00129	.000	.00089	5.9	.00176	.0080	.126	.269	.0002	.2079
%RSD	.28047	.00346	.21046	.20041	.33074	.24025	.85378	.85378	.00885	2.1693
#1	.45977	11.579	.42458	2938.6	.53273	3.3179	14.612	31.270	1.7967	9.4353
#2	.46159	11.578	.42584	2930.3	.53024	3.3067	14.790	31.650	1.7969	9.7293
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit		2.0000		200.00						5.0000
Low Limit		-1.0000		-.20000						-.01000

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	283.730 {119}	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0136**	**1.0131**	**1.5862**	**2.0416**	**.49353**	**.47252**	**.48581**
Stddev	.0031	.0056	.0008	.0488	.00365	.00393	.00181
%RSD	.31010	.55253	.04836	2.3922	.73879	.83185	.37288
#1	1.0114	1.0091	1.5868	2.0071	.49095	.46974	.48453
#2	1.0158	1.0170	1.5857	2.0761	.49611	.47530	.48710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3051.8**	**35850.**	**5214.8**
Stddev	7.0	76.	38.4
%RSD	.22793	.21292	.73600
#1	3056.7	35904.	5242.0
#2	3046.9	35796.	5187.7

Sample Name: CCVH-1169743 Acquired: 12/13/2011 23:26:23 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**50.267**	**-.00177**	**.00772**	**.00068**	**-.00010**	**1.0179**	**.02429**	**-.00072**	**.00077**	**.00047**	**-.00194**	**50.351**
Stddev	.00046	.011	.00031	.00063	.00009	.00005	.0013	.00934	.00012	.00008	.00006	.00034	.062
%RSD	59.539	.02261	17.655	8.1716	13.482	52.935	.12758	38.457	16.889	10.336	13.558	17.532	.12290
#1	-.00045	50.275	-.00155	.00816	.00062	-.00013	1.0188	.03089	-.00081	.00072	.00042	-.00170	50.307
#2	-.00110	50.259	-.00199	.00727	.00075	-.00006	1.0170	.01768	-.00064	.00083	.00051	-.00218	50.394
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28189**	**.00301**	**.14061**	**-.00148**	**-.00123**	**254.88**	**.00053**	**.00352**	**-.00040**	F **5.8714**	**-.00373**	**.00407**	**.03030**
Stddev	.01831	.00102	.16931	.00002	.00037	.33	.00009	.00211	.00115	.0425	.00130	.00335	.00188
%RSD	6.4937	33.779	120.41	1.4628	30.263	.12837	17.067	60.034	285.94	.72418	34.913	82.309	6.2062
#1	.29484	.00373	.02089	-.00149	-.00150	255.11	.00059	.00203	.00041	5.8413	-.00465	.00170	.03163
#2	.26895	.00229	.26033	-.00146	-.00097	254.65	.00046	.00501	-.00122	5.9014	-.00281	.00643	.02897
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Fail	None	None	None
Value										5.0000			
Range										10.000%			

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06484**	**.00248**	**.00093**	**4.9195**	**.00270**	**-.00541**	**10.205**	**-.00128**	**.00195**	**-.01282**
Stddev	.00402	.00046	.00019	.0004	.00005	.00029	.022	.00048	.00002	.00123
%RSD	6.2062	18.545	20.743	.00864	2.0355	5.4468	.21984	37.328	1.2797	9.5602
#1	.06768	.00280	.00107	4.9198	.00266	-.00562	10.221	-.00162	.00194	-.01369
#2	.06199	.00215	.00080	4.9192	.00274	-.00520	10.189	-.00094	.00197	-.01196
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**3954.6**	**47279.**	**5589.1**
Stddev	16.5	126.	56.5
%RSD	.41601	.26740	1.0102
#1	3966.3	47190.	5549.1
#2	3943.0	47369.	5629.0

Sample Name: CCV-1169927 Acquired: 12/13/2011 23:28:44 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49287**	**.52357**	**1.0150**	**.50700**	**.50338**	**.50181**	**.00049**	**5.0388**	**.50827**	**.51614**	**.51730**	**.50397**	**2.4504**
Stddev	.00039	.00210	.0017	.00052	.00041	.00005	.00044	.0049	.00003	.00072	.00029	.00241	.0134
%RSD	.08001	.40187	.16244	.10345	.08151	.01036	88.967	.09772	.00528	.13897	.05662	.47909	.54730
#1	.49315	.52208	1.0162	.50737	.50309	.50185	.00080	5.0423	.50829	.51563	.51750	.50568	2.4409
#2	.49259	.52506	1.0139	.50663	.50367	.50178	.00018	5.0353	.50826	.51664	.51709	.50226	2.4599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**51.475**	**1.0415**	**19.922**	**.49838**	**.51313**	**5.4707**	**.51532**	**1.0106**	**1.0116**	**.93351**	**1.0149**	**.99183**	**4.8802**
Stddev	.044	.0016	.101	.00205	.00085	.0322	.00094	.0002	.0003	.01305	.0012	.00069	.0455
%RSD	.08572	.15372	.50886	.41089	.16505	.58809	.18297	.02294	.02654	1.3977	.11610	.06922	.93156
#1	51.444	1.0426	19.851	.49693	.51253	5.4935	.51599	1.0104	1.0114	.94273	1.0140	.99232	4.8481
#2	51.506	1.0404	19.994	.49983	.51373	5.4480	.51466	1.0107	1.0118	.92428	1.0157	.99134	4.9124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.444**	**1.0262**	**.51648**	**-.00074**	**.51098**	**1.0266**	**-.00392**	**.50045**	**.50108**	**.49600**
Stddev	.097	.0016	.00002	.00049	.00097	.0064	.01430	.00074	.00258	.00041
%RSD	.93156	.15217	.00378	66.781	.19017	.62726	364.42	.14735	.51575	.08262
#1	10.375	1.0273	.51649	-.00109	.51030	1.0221	-.01403	.49993	.49925	.49629
#2	10.512	1.0251	.51647	-.00039	.51167	1.0312	.00619	.50097	.50291	.49571
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4017.0**	**48414.**	**5587.1**
Stddev	10.4	284.	4.8
%RSD	.26010	.58743	.08568
#1	4024.4	48615.	5590.5
#2	4009.6	48213.	5583.7

Sample Name: CCB Acquired: 12/13/2011 23:30:56 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.01072**	**-.00079**	F **.00393**	**.00015**	**.00008**	**.00064**	**.00393**	**.00010**	**.00009**	**.00029**	**-.00030**	**.00033**
Stddev	.00038	.00065	.00210	.00009	.00013	.00013	.00183	.00192	.00011	.00006	.00017	.00019	.00144
%RSD	63.010	6.0592	267.10	2.2950	89.776	157.73	286.50	48.803	110.90	60.639	59.782	63.153	439.91
#1	-.00087	.01118	.00070	.00387	.00024	.00017	-.00065	.00528	.00002	.00005	.00042	-.00043	-.00069
#2	-.00033	.01026	-.00227	.00400	.00005	-.00001	.00193	.00257	.00017	.00014	.00017	-.00016	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00312									
Low Limit				-.00312									

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13072**	**.00073**	**.00627**	**.00005**	**.00031**	F **.34872**	**-.00014**	**.00095**	**-.00003**	F **.68607**	**.00051**	**.00073**	**-.00408**
Stddev	.02394	.00037	.00070	.00002	.00015	.00447	.00005	.00087	.00077	.02423	.00071	.00121	.01421
%RSD	18.311	51.354	11.207	44.143	49.882	1.2829	39.084	92.265	2974.7	3.5313	140.25	166.58	348.22
#1	.11380	.00099	.00677	.00007	.00020	.35188	-.00010	.00156	.00052	.70320	.00102	.00159	.00597
#2	.14765	.00046	.00577	.00004	.00042	.34556	-.00017	.00033	-.00057	.66894	.00000	-.00013	-.01413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.18300				.20000			
Low Limit						-.18320				-.20000			

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00873**	**-.00085**	**.00018**	**-.00016**	**.00017**	**-.00049**	**-.02253**	**.00004**	**.00168**	**.00077**
Stddev	.03041	.00042	.00008	.00087	.00008	.00018	.00373	.00028	.00038	.00037
%RSD	348.22	48.815	42.312	560.40	44.795	37.496	16.561	769.85	22.540	47.560
#1	.01277	-.00115	.00023	.00046	.00012	-.00062	-.02516	.00024	.00141	.00051
#2	-.03023	-.00056	.00013	-.00077	.00023	-.00036	-.01989	-.00016	.00195	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4062.8**	**49348.**	**5576.1**
Stddev	11.9	33.	7.6
%RSD	.29394	.06704	.13701
#1	4054.4	49324.	5570.7
#2	4071.3	49371.	5581.5

Sample Name: CCVL1171013 Acquired: 12/13/2011 23:33:23 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01010**	**.10901**	**.01733**	**.11145**	**.01034**	**.00105**	**.11577**	**.21316**	**.00522**	**.01129**	**.01083**	**.01498**	**.09903**
Stddev	.00009	.00119	.00129	.00105	.00010	.00010	.00099	.00204	.00000	.00010	.00010	.00005	.00185
%RSD	.87669	1.0899	7.4353	.94021	.98669	9.1743	.85100	.95612	.02585	.91282	.95266	.32420	1.8670
#1	.01004	.10985	.01642	.11070	.01041	.00098	.11507	.21460	.00522	.01122	.01091	.01495	.09772
#2	.01016	.10817	.01824	.11219	.01026	.00112	.11646	.21172	.00522	.01136	.01076	.01502	.10034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.3340**	F **.01303**	**.22114**	**.01057**	**.02115**	F **1.4016**	**.04303**	**3.1944**	**.00900**	**.52236**	**.00942**	**.01389**	**.50410**
Stddev	.0054	.00135	.00106	.00005	.00025	.0070	.00024	.0232	.00025	.00829	.00106	.00119	.00838
%RSD	.16224	10.355	.47730	.44478	1.1780	.50234	.56901	.72547	2.7272	1.5872	11.219	8.5404	1.6631
#1	3.3302	.01398	.22188	.01054	.02097	1.3966	.04286	3.1780	.00882	.52822	.01016	.01473	.51003
#2	3.3379	.01208	.22039	.01060	.02132	1.4066	.04320	3.2108	.00917	.51650	.00867	.01305	.49818
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value		.01000				1.0000							
Range		30.000%				30.000%							

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0788**	**.11033**	**.01071**	**.01555**	**.01082**	**.01824**	F **.03670**	**.00947**	**.02432**	**.01626**
Stddev	.0179	.00057	.00015	.00128	.00019	.00170	.00091	.00013	.00003	.00066
%RSD	1.6631	.51509	1.3869	8.2485	1.7857	9.3445	2.4803	1.3207	.13802	4.0325
#1	1.0915	.10993	.01061	.01646	.01068	.01704	.03605	.00938	.02435	.01673
#2	1.0661	.11073	.01082	.01465	.01095	.01945	.03734	.00956	.02430	.01580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value							.06000			
Range							-30.000%			

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4171.8**	**50787.**	**5696.5**
Stddev	29.5	138.	9.3
%RSD	.70668	.27131	.16356
#1	4192.6	50884.	5689.9
#2	4151.0	50689.	5703.1

Sample Name: mb 280-99637/1-a Acquired: 12/13/2011 23:35:47 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00258**	**.00127**	**.00307**	**.00048**	**.00006**	**.00124**	**.09978**	**.00063**	**.00015**
Stddev	.00012	.00231	.00188	.00015	.00004	.00003	.00002	.00100	.00002	.00010
%RSD	40.923	89.485	147.33	4.8004	7.9206	60.693	1.5964	1.0006	2.9066	63.198
#1	-.00021	.00421	-.00005	.00296	.00045	.00003	.00126	.10048	.00065	.00008
#2	-.00038	.00095	.00260	.00317	.00050	.00008	.00123	.09907	.00062	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00162**	**.00137**	F **.25446**	**.10948**	**.00098**	**.02724**	**.00308**	**.00028**	W **.68286**	**.00042**
Stddev	.00011	.00022	.00190	.00753	.00015	.00031	.00002	.00018	.00471	.00032
%RSD	6.5035	15.953	.74701	6.8791	15.256	1.1238	.72524	63.692	.69026	75.380
#1	.00170	.00122	.25581	.11481	.00087	.02745	.00310	.00015	.68619	.00064
#2	.00155	.00153	.25312	.10415	.00109	.02702	.00307	.00040	.67952	.00020
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit			.10000						.50000	
Low Limit			-.10000						-.50000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **.00650**	**-.00046**	F **.48295**	**-.00253**	**.00211**	**-.00470**	**-.01006**	**.00668**	**.00043**	**.00052**
Stddev	.00178	.00025	.01659	.00030	.00459	.00187	.00400	.00043	.00002	.00046
%RSD	27.384	54.746	3.4357	11.827	216.85	39.750	39.750	6.4651	3.7037	87.735
#1	.00524	-.00064	.49468	-.00274	-.00113	-.00602	-.01288	.00638	.00042	.00020
#2	.00776	-.00028	.47122	-.00232	.00536	-.00338	-.00723	.00699	.00045	.00084
Check ?	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.00500		.01000							
Low Limit	-.00500		-.01000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00037**	**-.00805**	**-.00020**	**.00318**	**.00224**
Stddev	.00012	.00159	.02252	.00026	.00027	.00005
%RSD	46.449	430.37	279.73	128.22	8.5409	2.0828
#1	.00034	-.00075	.00787	-.00002	.00337	.00221
#2	.00017	.00149	-.02397	-.00039	.00299	.00228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4133.6**	**50791.**	**5739.2**
Stddev	10.2	211.	66.7
%RSD	.24780	.41533	1.1622
#1	4126.4	50642.	5692.0
#2	4140.9	50941.	5786.3

Sample Name: lcs 280-99637/2-a Acquired: 12/13/2011 23:38:14 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04772**	**1.8905**	**.97598**	**.96332**	**1.9221**	**.04834**	**2.0230**	**46.926**	**.09778**	**.48314**
Stddev	.00004	.0056	.00110	.00118	.0112	.00036	.0029	.196	.00022	.00094
%RSD	.08268	.29714	.11225	.12249	.58084	.75469	.14171	.41714	.22307	.19520
#1	.04770	1.8866	.97676	.96415	1.9142	.04808	2.0210	46.788	.09762	.48248
#2	.04775	1.8945	.97521	.96249	1.9300	.04860	2.0250	47.065	.09793	.48381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19851**	**.24413**	**.96400**	**49.341**	**.99778**	**46.839**	**.47613**	**.98437**	**52.505**	**.48896**
Stddev	.00075	.00058	.00672	.219	.00912	.070	.00097	.00310	.407	.00131
%RSD	.37935	.23873	.69659	.44391	.91430	.14967	.20358	.31509	.77503	.26718
#1	.19904	.24454	.95925	49.187	.99132	46.789	.47544	.98217	52.217	.48804
#2	.19797	.24372	.96875	49.496	1.0042	46.888	.47681	.98656	52.793	.48989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.8131**	**.47845**	**.42501**	**.47510**	**1.8663**	**3.0570**	**6.5420**	**1.9498**	**.99632**	**.98092**
Stddev	.0050	.00002	.01410	.00297	.0065	.0267	.0571	.0040	.00586	.00388
%RSD	.05045	.00331	3.3179	.62521	.34892	.87271	.87271	.20568	.58843	.39585
#1	9.8166	.47846	.43498	.47300	1.8617	3.0381	6.5016	1.9470	.99217	.97818
#2	9.8096	.47844	.41504	.47720	1.8709	3.0759	6.5823	1.9526	1.0005	.98367
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0038**	**1.9159**	**2.1150**	**.47888**	**.46800**	**.48013**
Stddev	.0006	.0018	.0240	.00152	.00283	.00313
%RSD	.06391	.09606	1.1355	.31834	.60478	.65231
#1	1.0034	1.9146	2.0980	.47996	.46599	.47791
#2	1.0043	1.9173	2.1319	.47780	.47000	.48234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3960.7**	**47472.**	**5618.7**
Stddev	.1	58.	14.5
%RSD	.00335	.12153	.25743
#1	3960.8	47432.	5628.9
#2	3960.6	47513.	5608.5

Sample Name: 280-23648-a-1-a Acquired: 12/13/2011 23:40:23 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00574**	**55.984**	**.25674**	**.22857**	**.90460**	**.00203**	F **6.4882**	W **541.47**	F **95.766**	**.02827**
Stddev	.00006	.086	.00084	.00058	.00018	.00003	.0216	7.76	.327	.00022
%RSD	1.1167	.15414	.32893	.25431	.01950	1.2660	.33234	1.4325	.34159	.77032
#1	.00570	55.923	.25614	.22816	.90448	.00202	6.4729	535.98	95.997	.02842
#2	.00579	56.045	.25734	.22898	.90473	.00205	6.5034	546.95	95.534	.02811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Warn	Chk Fail	Chk Pass
High Limit							.10000	500.00	25.000	
Low Limit							-.10000	-.05000	-.01000	

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11414**	**.85243**	**81.065**	**63.584**	**.09754**	**25.568**	**1.4765**	**.04043**	**120.65**	**.14606**
Stddev	.00023	.00240	.065	.102	.00061	.097	.0046	.00051	.29	.00034
%RSD	.20153	.28131	.08069	.15979	.62456	.37903	.31400	1.2547	.24222	.23085
#1	.11430	.85073	81.111	63.512	.09711	25.500	1.4732	.04007	120.44	.14582
#2	.11397	.85413	81.018	63.656	.09797	25.637	1.4798	.04079	120.85	.14630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **3.8060**	**5.0183**	F **203.93**	**-.00200**	**3.7145**	**4.1226**	**8.8223**	**.03422**	**2.1837**	**.00780**
Stddev	.0134	.0256	1.69	.00161	.0137	.0061	.0131	.00066	.0017	.00046
%RSD	.35070	.51114	.83049	80.627	.36913	.14828	.14828	1.9240	.07910	5.9035
#1	3.8154	5.0002	202.73	-.00086	3.7048	4.1183	8.8131	.03469	2.1825	.00748
#2	3.7965	5.0364	205.13	-.00314	3.7242	4.1269	8.8316	.03376	2.1849	.00813
Check ?	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000		200.00							
Low Limit	-1.0000		-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.6704**	**.75449**	W **-.08269**	**.71937**	**5.3254**	**.07594**
Stddev	.0103	.00058	.00334	.00159	.0192	.00045
%RSD	.38458	.07704	4.0448	.22132	.36067	.59283
#1	2.6631	.75408	-.08505	.71824	5.3118	.07626
#2	2.6777	.75490	-.08032	.72049	5.3389	.07562
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			45.000			
Low Limit			-.05000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3936.4**	**46787.**	**5913.7**
Stddev	2.7	61.	64.0
%RSD	.06912	.12958	1.0819
#1	3934.5	46830.	5958.9
#2	3938.3	46745.	5868.4

Sample Name: 280-23648-a-1-aSD@5 Acquired: 12/13/2011 23:42:47 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**11.726**	**.05076**	**.04984**	**.19076**	**.00046**	F **1.3575**	**118.41**	F **33.996**	**.00821**
Stddev	.00009	.010	.00059	.00005	.00054	.00004	.0041	.21	.005	.00050
%RSD	15.368	.08421	1.1666	.10783	.28225	9.4581	.29939	.17489	.01607	6.0842
#1	.00065	11.733	.05035	.04980	.19038	.00043	1.3604	118.26	34.000	.00856
#2	.00052	11.719	.05118	.04987	.19115	.00049	1.3546	118.56	33.992	.00786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit							.10000		25.000	
Low Limit							-.10000		-.01000	

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02465**	**.17959**	**16.730**	**13.280**	**.02167**	**5.6048**	**.31730**	**.00836**	**25.655**	**.03189**
Stddev	.00006	.00082	.025	.013	.00003	.0138	.00062	.00003	.041	.00010
%RSD	.26131	.45405	.14656	.09723	.14629	.24647	.19536	.34492	.15874	.32124
#1	.02470	.18017	16.713	13.271	.02169	5.5950	.31686	.00838	25.626	.03196
#2	.02460	.17901	16.748	13.289	.02165	5.6146	.31773	.00834	25.684	.03182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.76595**	**1.1071**	**41.486**	**-.00130**	**.74625**	**.86255**	**1.8459**	**.00694**	**.46120**	**.00313**
Stddev	.00248	.0017	.225	.00136	.00163	.01150	.0246	.00062	.00041	.00110
%RSD	.32326	.15456	.54281	104.38	.21825	1.3336	1.3336	8.9159	.08992	35.016
#1	.76770	1.1059	41.327	-.00227	.74510	.85442	1.8285	.00650	.46090	.00236
#2	.76420	1.1083	41.645	-.00034	.74740	.87069	1.8633	.00738	.46149	.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.56512**	**.17112**	**-.04594**	**.15273**	**1.1603**	**.01755**
Stddev	.00028	.00018	.00037	.00047	.0007	.00035
%RSD	.04951	.10604	.79989	.31099	.06116	1.9827
#1	.56492	.17099	-.04620	.15239	1.1598	.01780
#2	.56532	.17125	-.04568	.15306	1.1608	.01730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4044.3**	**48685.**	**5826.7**
Stddev	5.8	129.	17.3
%RSD	.14316	.26430	.29704
#1	4048.4	48776.	5839.0
#2	4040.2	48594.	5814.5

Sample Name: 280-23648-a-1-b ms Acquired: 12/13/2011 23:45:04 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05719	69.346	1.3103	1.1771	3.4260	.04860	F 6.6363	W 513.71	F 96.121	.48746
Stddev	.00018	.175	.0056	.0000	.0128	.00014	.0128	.11	.221	.00131
%RSD	.31455	.25272	.42551	.00243	.37281	.28873	.19294	.02233	.22956	.26831
#1	.05731	69.470	1.3143	1.1770	3.4170	.04870	6.6453	513.63	96.277	.48839
#2	.05706	69.222	1.3064	1.1771	3.4351	.04850	6.6272	513.79	95.965	.48654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Warn	Chk Fail	Chk Pass
High Limit							.10000	500.00	25.000	
Low Limit							-.10000	-.05000	-.01000	

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.30630	1.2017	87.711	W 128.50	1.1297	74.237	3.4033	.97887	185.76	.59023
Stddev	.00049	.0008	.199	.15	.0031	.068	.0102	.00217	.01	.00120
%RSD	.16017	.06243	.22725	.11893	.27410	.09126	.29945	.22198	.00495	.20285
#1	.30665	1.2012	87.852	128.61	1.1275	74.284	3.3961	.98041	185.75	.59107
#2	.30596	1.2022	87.570	128.40	1.1319	74.189	3.4105	.97734	185.77	.58938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				100.00						
Low Limit				-.50000						

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W 13.537	8.4481	F 226.37	.37788	4.6705	5.1831	11.092	1.8404	3.0276	.99733
Stddev	.031	.0164	.79	.00166	.0269	.0073	.016	.0015	.0536	.00650
%RSD	.23011	.19467	.35093	.43835	.57597	.14081	.14081	.08202	1.7700	.65210
#1	13.559	8.4597	226.94	.37671	4.6895	5.1883	11.103	1.8415	2.9897	1.0019
#2	13.515	8.4365	225.81	.37905	4.6515	5.1780	11.081	1.8393	3.0655	.99273
Check ?	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000		200.00							
Low Limit	-1.0000		-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.7742	2.2994	1.8744	1.0907	W 13.791	.55791
Stddev	.0035	.0050	.0532	.0016	.039	.00177
%RSD	.09336	.21976	2.8404	.15007	.28033	.31811
#1	3.7767	2.3030	1.8368	1.0918	13.819	.55665
#2	3.7717	2.2958	1.9121	1.0895	13.764	.55916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit					10.000	
Low Limit					-.00500	

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	3902.6	46437.	5873.2
Stddev	3.0	58.	1.6
%RSD	.07733	.12485	.02657
#1	3904.8	46478.	5874.3
#2	3900.5	46396.	5872.1

Sample Name: 280-23648-a-1-c msd Acquired: 12/13/2011 23:47:36 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06070**	**74.638**	**1.3700**	**1.2000**	**3.2574**	**.04752**	F **10.906**	W **558.89**	F **109.95**	**.48012**
Stddev	.00002	.116	.0037	.0025	.0023	.00009	.044	2.56	.43	.00205
%RSD	.03401	.15599	.26818	.20889	.06982	.18832	.40803	.45809	.39452	.42603
#1	.06072	74.720	1.3726	1.2017	3.2558	.04746	10.937	557.08	110.25	.48157
#2	.06069	74.556	1.3674	1.1982	3.2590	.04759	10.874	560.70	109.64	.47868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Warn	Chk Fail	Chk Pass
High Limit							.10000	500.00	25.000	
Low Limit							-.10000	-.05000	-.01000	

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33479**	**2.2761**	**84.251**	W **131.34**	**1.1135**	**72.213**	**2.1885**	**.96974**	**224.79**	**.65623**
Stddev	.00232	.0044	.214	.23	.0040	.128	.0028	.00432	.20	.00142
%RSD	.69208	.19447	.25387	.17384	.35529	.17734	.12956	.44542	.09017	.21625
#1	.33643	2.2792	84.402	131.50	1.1163	72.304	2.1905	.97280	224.93	.65724
#2	.33316	2.2730	84.100	131.18	1.1107	72.123	2.1865	.96669	224.65	.65523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				100.00						
Low Limit				-.50000						

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **14.482**	W **16.790**	F **289.93**	**.38977**	W **6.8742**	**5.9817**	**12.801**	**1.9019**	**3.2716**	**.93108**
Stddev	.055	.016	.29	.00217	.0059	.0119	.026	.0018	.0262	.00018
%RSD	.38037	.09631	.10041	.55679	.08581	.19951	.19951	.09692	.80121	.01936
#1	14.521	16.801	290.13	.39131	6.8783	5.9901	12.819	1.9032	3.2901	.93095
#2	14.443	16.778	289.72	.38824	6.8700	5.9732	12.783	1.9006	3.2531	.93120
Check ?	Chk Warn	Chk Warn	Chk Fail	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000	10.000	200.00		5.0000					
Low Limit	-1.0000	-.00300	-.20000		-.00500					

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.9193**	**2.5425**	**1.8825**	**1.1705**	W **17.345**	**.55879**
Stddev	.0094	.0159	.0234	.0041	.040	.00427
%RSD	.23982	.62484	1.2431	.35360	.23223	.76496
#1	3.9260	2.5538	1.8991	1.1735	17.373	.56181
#2	3.9127	2.5313	1.8660	1.1676	17.316	.55576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit					10.000	
Low Limit					-.00500	

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3827.5**	**45807.**	**5935.7**
Stddev	12.7	181.	14.9
%RSD	.33203	.39407	.25102
#1	3818.5	45679.	5925.2
#2	3836.5	45934.	5946.3

Sample Name: 280-23648-a-2-a Acquired: 12/13/2011 23:50:00 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.00566**	F **-5.0632**	**1.3718**	F **-.08952**	k **.12528**	k **-.00002**	F **3.8576**	k **.49689**	k **.72308**	kW **1.4765**
Stddev	.00062	.0792	.0100	.00157	.00031	.00004	.0119	.05351	.00545	.0018
%RSD	11.046	1.5641	.73218	1.7576	.24988	195.31	.30828	10.769	.75346	.11902
#1	k .00610	-5.1192	1.3647	-.08841	k .12506	k -.00004	3.8491	k .45905	k .71923	k 1.4777
#2	k .00521	-5.0072	1.3789	-.09063	k .12551	k .00001	3.8660	k .53472	k .72693	k 1.4752
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Warn
High Limit		3.2000		100.00			.10000			1.0000
Low Limit		-.10000		-.02000			-.10000			-.01000

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **3.8134**	kW **13.068**	F **9767.3**	F **-3.1775**	**.00414**	kF **-1.2845**	kF **49.155**	**.25971**	**1.0881**	**22.013**
Stddev	.0065	.106	81.9	.0787	.00021	.0061	.340	.00034	.0335	.120
%RSD	.17127	.80856	.83816	2.4755	5.1602	.47820	.69119	.13251	3.0764	.54735
#1	k 3.8181	k 13.142	9825.2	-3.2331	.00429	k -1.2801	k 49.395	.25947	1.0645	22.099
#2	k 3.8088	k 12.993	9709.5	-3.1219	.00399	k -1.2888	k 48.915	.25995	1.1118	21.928
Check ?	Chk Pass	Chk Warn	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		10.000	2000.0	500.00		2000.0	20.000			
Low Limit		-.01000	40.000	-2.0000		-.20000	-.02000			

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.2865**	**.90322**	k **.63040**	k **1.3798**	k **.28745**	k **1.9902**	k **7.5580**	k **16.174**	**1.0521**	**.00541**
Stddev	.0027	.00077	.00446	.0051	.00391	.0007	.0286	.061	.0027	.00029
%RSD	.03749	.08504	.70683	.37176	1.3592	.03334	.37826	.37826	.25707	5.3095
#1	7.2846	.90268	k .62725	k 1.3834	k .28469	k 1.9897	k 7.5782	k 16.217	1.0502	.00521
#2	7.2884	.90376	k .63356	k 1.3762	k .29021	k 1.9906	k 7.5377	k 16.131	1.0540	.00562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	283.730 {119}	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	kF **-.91299**	k **.23451**	kW **-.01999**	kF **-.98259**	k **.25064**	k **.89883**	kF **-.38813**
Stddev	.02498	.00404	.00056	.01628	.00073	.00039	.00059
%RSD	2.7366	1.7235	2.8116	1.6568	.29162	.04302	.15206
#1	k -.93066	k .23737	k -.01960	k -.99410	k .25012	k .89856	k -.38771
#2	k -.89533	k .23165	k -.02039	k -.97107	k .25115	k .89910	k -.38855
Check ?	Chk Fail	Chk Pass	Chk Warn	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit	50.000		5.0000	50.000			50.000
Low Limit	-.02000		-.01000	-.10000			-.02000

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3400.8**	**38338.**	**4884.4**
Stddev	1.8	9.	44.3
%RSD	.05337	.02321	.90740
#1	3399.6	38345.	4853.0
#2	3402.1	38332.	4915.7

Sample Name: 280-23648-a-3-a Acquired: 12/13/2011 23:52:33 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00280**	**23.325**	**1.3851**	F **-.04964**	**.04371**	**-.00005**	F **.22224**	**1.2997**	**.41603**	**.81103**
Stddev	.00006	.047	.0013	.00005	.00017	.00009	.00889	.0168	.00005	.00050
%RSD	2.1885	.20131	.09343	.10643	.38690	168.31	3.9994	1.2899	.01167	.06152
#1	.00284	23.359	1.3842	-.04960	.04383	.00001	.22853	1.3115	.41600	.81138
#2	.00276	23.292	1.3861	-.04967	.04359	-.00011	.21596	1.2878	.41606	.81067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				100.00			.10000			
Low Limit				-.02000			-.10000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9654**	**5.6543**	F **7637.1**	F **-2.1626**	**.00428**	F **-.90874**	F **39.299**	**.12081**	**1.3211**	**17.719**
Stddev	.0011	.0003	245.2	.0196	.00135	.00757	.427	.00064	.0112	.278
%RSD	.05800	.00584	3.2106	.90564	31.466	.83299	1.0857	.53372	.84940	1.5706
#1	1.9646	5.6546	7463.7	-2.1488	.00333	-.90339	38.998	.12127	1.3290	17.915
#2	1.9663	5.6541	7810.5	-2.1765	.00523	-.91410	39.601	.12036	1.3132	17.522
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			2000.0	500.00		2000.0	20.000			
Low Limit			40.000	-2.0000		-.20000	-.02000			

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.4876**	**.51946**	**.26977**	**3.3452**	**.21650**	**.08070**	**7.2941**	**15.609**	**.35377**	**.00955**
Stddev	.0076	.00332	.00795	.0213	.00138	.00213	.0567	.121	.00051	.00010
%RSD	.13866	.63986	2.9462	.63669	.63606	2.6450	.77676	.77676	.14525	.99607
#1	5.4822	.52181	.27539	3.3603	.21552	.07919	7.3341	15.695	.35341	.00961
#2	5.4930	.51711	.26415	3.3301	.21747	.08221	7.2540	15.524	.35413	.00948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	283.730 {119}	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.53413**	**.14226**	F **-.08412**	F **-.64298**	**.18713**	**.33318**	F **-.28774**
Stddev	.16399	.00055	.00048	.07856	.00041	.00130	.00291
%RSD	30.703	.38330	.57557	12.219	.21820	.38987	1.0106
#1	-.41817	.14187	-.08378	-.58743	.18742	.33227	-.28979
#2	-.65009	.14264	-.08446	-.69854	.18684	.33410	-.28568
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit	50.000		20.000	50.000			50.000
Low Limit	-.02000		-.02000	-.10000			-.02000

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3505.5**	**39821.**	**5108.1**
Stddev	.9	80.	18.1
%RSD	.02500	.20025	.35405
#1	3506.2	39878.	5120.9
#2	3504.9	39765.	5095.3

Sample Name: 280-22777-a-8-a Acquired: 12/13/2011 23:55:01 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**98.214**	**.08366**	**.87722**	**1.7571**	**.00274**	**.00734**	W **924.98**	**.02768**	**.04619**
Stddev	.00001	.177	.00299	.00012	.0098	.00003	.00005	18.85	.01684	.00010
%RSD	1.3358	.18038	3.5737	.01338	.55565	1.1316	.72361	2.0381	60.822	.22225
#1	-.00049	98.088	.08578	.87713	1.7640	.00272	.00738	911.65	.03959	.04626
#2	-.00050	98.339	.08155	.87730	1.7502	.00276	.00730	938.31	.01578	.04612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								500.00		
Low Limit								-.05000		

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25657**	**5.0456**	**138.50**	**22.376**	**.19107**	**61.283**	**2.7593**	**.01916**	**12.938**	**.11955**
Stddev	.00162	.0047	.80	.045	.00097	.235	.0308	.00050	.007	.00162
%RSD	.63055	.09274	.58020	.20211	.50891	.38397	1.1174	2.6029	.05071	1.3545
#1	.25772	5.0423	137.93	22.408	.19038	61.116	2.7375	.01881	12.942	.12069
#2	.25543	5.0489	139.07	22.344	.19176	61.449	2.7811	.01951	12.933	.11840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **4.4914**	**1.2114**	F **542.28**	**-.00377**	**.00726**	**3.5906**	**7.6839**	**.00169**	W **5.7982**	**.02319**
Stddev	.0032	.0019	.19	.00307	.00616	.0050	.0108	.00235	.0593	.00287
%RSD	.07222	.15749	.03549	81.551	84.927	.14073	.14073	138.55	1.0226	12.386
#1	4.4937	1.2127	542.14	-.00594	.00290	3.5870	7.6763	.00335	5.8401	.02522
#2	4.4891	1.2100	542.41	-.00159	.01162	3.5942	7.6916	.00003	5.7562	.02115
Check ?	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit	2.0000		200.00						5.0000	
Low Limit	-1.0000		-.20000						-.01000	

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.9397**	**.00202**	W **-.07107**	**.21124**	**2.9721**	**.08712**
Stddev	.0109	.00199	.01021	.00039	.0076	.00013
%RSD	.18288	98.275	14.363	.18566	.25647	.15415
#1	5.9320	.00062	-.07829	.21151	2.9667	.08722
#2	5.9474	.00342	-.06385	.21096	2.9775	.08703
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			45.000			
Low Limit			-.05000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3993.6**	**47449.**	**6029.3**
Stddev	4.1	250.	29.1
%RSD	.10318	.52771	.48284
#1	3990.7	47626.	6049.9
#2	3996.6	47272.	6008.7

Sample Name: CCVH-1169743 Acquired: 12/13/2011 23:57:32 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00163**	**48.512**	**-.00100**	**.00431**	**.00102**	**-.00008**	**.98834**	**.25870**	**.00169**	**.00078**	**.00039**	**-.00181**	**48.962**
Stddev	.00012	.153	.00259	.00052	.00038	.00002	.00128	.19463	.00020	.00001	.00034	.00009	.341
%RSD	7.5538	.31464	258.73	12.055	37.728	25.401	.12917	75.232	11.756	1.6898	87.472	4.7913	.69672
#1	-.00172	48.620	-.00283	.00468	.00129	-.00007	.98924	.39632	.00183	.00077	.00015	-.00187	49.203
#2	-.00155	48.404	.00083	.00394	.00075	-.00010	.98743	.12108	.00155	.00079	.00063	-.00175	48.721
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17252**	**.00783**	**.00009**	**-.00091**	**-.00177**	**248.80**	**.00086**	**.00216**	**-.00102**	**4.8798**	**-.00273**	**.00459**	**.02423**
Stddev	.00225	.00029	.00230	.00002	.00012	.04	.00060	.00068	.00141	.0183	.00084	.00191	.00134
%RSD	1.3017	3.6566	2507.8	2.4421	6.8662	.01466	69.442	31.648	137.74	.37443	30.613	41.683	5.5237
#1	.17410	.00763	-.00154	-.00093	-.00185	248.82	.00044	.00264	-.00003	4.8928	-.00333	.00594	.02329
#2	.17093	.00804	.00172	-.00090	-.00168	248.77	.00128	.00168	-.00202	4.8669	-.00214	.00324	.02518
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05186**	**.00250**	**.00191**	**4.7901**	**.00487**	**-.00408**	**9.9234**	**-.00065**	**.00228**	**-.01650**
Stddev	.00286	.00136	.00112	.0196	.00050	.00001	.0033	.00000	.00050	.00000
%RSD	5.5237	54.449	58.653	.40805	10.225	.24821	.03360	.11423	21.927	.02693
#1	.04983	.00154	.00271	4.8039	.00452	-.00408	9.9211	-.00065	.00192	-.01650
#2	.05388	.00346	.00112	4.7763	.00523	-.00409	9.9258	-.00065	.00263	-.01650
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4105.4**	**48775.**	**5807.3**
Stddev	7.4	97.	23.6
%RSD	.18060	.19822	.40578
#1	4110.7	48844.	5790.6
#2	4100.2	48707.	5823.9

Sample Name: CCV-1169927 Acquired: 12/13/2011 23:59:53 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47694**	**.48934**	**.96602**	**.48572**	**.48695**	**.48376**	**.00198**	**4.8367**	**.49107**	**.49486**	**.49571**	**.49093**	**2.4295**
Stddev	.00104	.00247	.00070	.00071	.00065	.00126	.00072	.0116	.00036	.00032	.00015	.00005	.0035
%RSD	.21860	.50428	.07250	.14557	.13428	.26008	36.195	.24053	.07416	.06509	.03095	.00929	.14301
#1	.47621	.48760	.96652	.48522	.48649	.48287	.00248	4.8285	.49133	.49509	.49582	.49090	2.4319
#2	.47768	.49109	.96553	.48622	.48741	.48465	.00147	4.8450	.49081	.49463	.49560	.49096	2.4270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.888**	**1.0139**	**19.114**	**.47691**	**.49186**	**5.0279**	**.49452**	**.96639**	**.96383**	**.13154**	**.97783**	**.95120**	**4.7521**
Stddev	.181	.0007	.097	.00107	.00032	.0063	.00017	.00472	.00058	.00526	.00329	.00326	.0257
%RSD	.36336	.06893	.50827	.22358	.06588	.12523	.03399	.48803	.06020	3.9997	.33694	.34303	.54011
#1	49.760	1.0134	19.046	.47615	.49163	5.0324	.49440	.96305	.96424	.13526	.98016	.95351	4.7340
#2	50.016	1.0144	19.183	.47766	.49209	5.0235	.49464	.96972	.96342	.12782	.97550	.94889	4.7703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.170**	**.98952**	**.50001**	**.00112**	**.49255**	**.98690**	**-.01416**	**.47823**	**.47600**	**.47942**
Stddev	.055	.00063	.00110	.00157	.00027	.00168	.01258	.00057	.00272	.00080
%RSD	.54011	.06376	.22072	140.48	.05551	.17016	88.840	.11859	.57066	.16693
#1	10.131	.98908	.49923	.00223	.49236	.98572	-.02306	.47783	.47408	.47999
#2	10.208	.98997	.50079	.00001	.49275	.98809	-.00527	.47863	.47793	.47886
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4208.3**	**50360.**	**5825.7**
Stddev	4.1	189.	29.8
%RSD	.09736	.37593	.51171
#1	4211.2	50493.	5846.8
#2	4205.4	50226.	5804.6

Sample Name: CCB Acquired: 12/14/2011 0:02:05 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.00205**	**-.00040**	W **.00171**	**.00001**	**.00004**	**.00218**	**.00759**	F **.00188**	**.00022**	**.00010**	**-.00020**
Stddev	.00015	.00237	.00090	.00007	.00016	.00002	.00088	.00015	.00016	.00005	.00006	.00031
%RSD	44.453	115.58	225.63	3.8264	1295.6	42.969	40.464	1.9947	8.7714	21.424	63.186	156.66
#1	-.00045	-.00037	.00024	.00176	-.00010	.00003	.00155	.00748	.00199	.00025	.00006	.00002
#2	-.00023	-.00372	-.00104	.00167	.00013	.00006	.00280	.00769	.00176	.00019	.00015	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.00156					.00090			
Low Limit				-.00156					-.00090			

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.06222**	**.11435**	W **.00429**	**.00157**	W **.00049**	**.00029**	**.05851**	**.00007**	**-.00228**	**.00111**	**.13037**	**.00087**
Stddev	.00318	.01184	.00056	.00226	.00000	.00011	.00207	.00004	.00071	.00035	.00502	.00106
%RSD	5.1137	10.358	13.003	143.92	.65206	38.561	3.5405	62.467	31.385	31.327	3.8481	122.48
#1	.06447	.12272	.00468	-.00003	.00048	.00021	.05704	.00010	-.00278	.00087	.13391	.00012
#2	.05997	.10597	.00389	.00317	.00049	.00037	.05997	.00004	-.00177	.00136	.12682	.00162
Check ?	Chk Fail	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.04400		.00261		.00025							
Low Limit	-.04400		-.00261		-.00025							

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00123**	**-.00896**	**-.01917**	**.00003**	**.00007**	**.00066**	**.00047**	**-.00031**	**-.01102**	**-.00025**	**.00151**	**.00043**
Stddev	.00283	.00072	.00155	.00106	.00006	.00023	.00013	.00058	.00959	.00036	.00005	.00141
%RSD	230.05	8.0815	8.0815	4192.2	83.457	34.399	26.977	187.68	86.984	143.45	3.3470	326.44
#1	-.00077	-.00947	-.02026	.00078	.00003	.00082	.00038	-.00071	-.00424	.00000	.00147	.00143
#2	.00323	-.00845	-.01807	-.00073	.00012	.00050	.00055	.00010	-.01780	-.00051	.00155	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4156.4**	**50546.**	**5719.6**
Stddev	1.0	55.	.3
%RSD	.02372	.10917	.00525
#1	4157.1	50507.	5719.8
#2	4155.7	50585.	5719.4

Sample Name: CCVL1171013 Acquired: 12/14/2011 0:04:31 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00887**	**.09468**	**.01376**	**.10469**	**.00919**	**.00083**	**.10254**	**.19104**	**.00634**	**.00999**	**.00957**	**.01391**	F **.15258**
Stddev	.00007	.00302	.00123	.00006	.00017	.00000	.00015	.00080	.00009	.00020	.00021	.00025	.00262
%RSD	.74727	3.1853	8.9464	.05909	1.8668	.35778	.14291	.41729	1.4464	1.9987	2.1506	1.8022	1.7196
#1	.00882	.09255	.01289	.10465	.00931	.00083	.10243	.19048	.00640	.01014	.00942	.01408	.15073
#2	.00892	.09682	.01463	.10473	.00907	.00084	.10264	.19161	.00627	.00985	.00971	.01373	.15444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value													.10000
Range													30.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.0415**	**.01245**	**.19163**	**.00988**	**.02056**	**1.0285**	**.03838**	**3.0588**	**.00904**	**.11251**	**.00822**	**.01189**	**.49836**
Stddev	.0207	.00017	.00311	.00006	.00015	.0030	.00044	.0029	.00032	.00101	.00240	.00268	.00119
%RSD	.67921	1.3300	1.6233	.55935	.72100	.28969	1.1595	.09459	3.5296	.89708	29.167	22.530	.23889
#1	3.0562	.01233	.18943	.00984	.02067	1.0264	.03806	3.0568	.00927	.11322	.00652	.01379	.49920
#2	3.0269	.01257	.19383	.00992	.02046	1.0306	.03869	3.0609	.00882	.11179	.00991	.01000	.49752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0665**	**.10499**	**.00950**	**.01411**	**.01052**	**.01609**	**.04805**	**.00850**	**.02017**	**.01811**
Stddev	.0026	.00169	.00002	.00014	.00008	.00028	.00378	.00023	.00006	.00080
%RSD	.23889	1.6064	.22869	.99993	.74984	1.7289	7.8630	2.7100	.30673	4.3918
#1	1.0683	.10380	.00951	.01421	.01046	.01628	.05072	.00834	.02013	.01755
#2	1.0647	.10618	.00948	.01401	.01058	.01589	.04538	.00867	.02022	.01867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4293.8**	**51903.**	**5835.2**
Stddev	18.2	229.	9.4
%RSD	.42309	.44165	.16098
#1	4306.6	52065.	5841.8
#2	4280.9	51741.	5828.5

Sample Name: mb 280-99566/1-a Acquired: 12/14/2011 0:06:54 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00112**	**.00058**	**.00115**	**-.00001**	**.00006**	**.00545**	**.00823**	W **.00329**	**.00040**
Stddev	.00025	.00541	.00140	.00011	.00037	.00004	.00007	.00121	.00300	.00007
%RSD	626.57	483.77	241.74	9.5132	3354.7	65.655	1.3577	14.770	91.192	18.594
#1	.00021	-.00271	-.00041	.00123	-.00027	.00003	.00540	.00908	.00117	.00035
#2	-.00014	.00494	.00157	.00108	.00025	.00009	.00550	.00737	.00541	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									.00100	
Low Limit									-.00100	

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00012**	W **.05110**	**.09976**	**.00383**	**.00081**	**.00041**	**.00004**	**.03564**	**.00020**
Stddev	.00014	.00008	.00365	.00798	.00030	.00092	.00002	.00008	.00943	.00022
%RSD	77.707	69.242	7.1421	7.9944	7.7323	112.95	5.4332	203.25	26.451	105.46
#1	.00008	.00017	.05368	.10540	.00362	.00016	.00043	-.00002	.02897	.00005
#2	.00027	.00006	.04852	.09412	.00403	.00146	.00040	.00009	.04230	.00036
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.03000							
Low Limit			-.05000							

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.00027**	F **.13199**	**-.00271**	**.00156**	F **-.01597**	F **-.03418**	**-.00063**	**.00009**	**.00062**
Stddev	.00099	.00006	.03747	.00017	.00268	.00194	.00415	.00011	.00003	.00049
%RSD	97.809	24.117	28.388	6.3628	172.51	12.127	12.127	17.591	30.542	78.159
#1	-.00172	.00022	.10549	-.00283	-.00034	-.01460	-.03125	-.00056	.00007	.00097
#2	-.00031	.00031	.15848	-.00259	.00345	-.01734	-.03711	-.00071	.00011	.00028
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			.01000			.01000	.01000			
Low Limit			-.01000			-.01000	-.01000			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00182**	**-.02210**	**-.00021**	**.00256**	**.00188**
Stddev	.00000	.00036	.01541	.00014	.00011	.00008
%RSD	3.5018	20.059	69.750	68.494	4.1460	4.4270
#1	.00004	.00208	-.01120	-.00031	.00264	.00182
#2	.00004	.00156	-.03300	-.00011	.00248	.00194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4257.1**	**51608.**	**5862.2**
Stddev	5.3	230.	25.4
%RSD	.12529	.44625	.43285
#1	4260.9	51771.	5880.2
#2	4253.4	51445.	5844.3

Sample Name: lcs 280-99566/2-a Acquired: 12/14/2011 0:09:21 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05011**	**1.9430**	**1.0172**	**1.0323**	**1.9702**	**.04885**	**2.1110**	**47.539**	**.10216**	**.49110**
Stddev	.00055	.0095	.0009	.0029	.0089	.00035	.0057	.304	.00006	.00000
%RSD	1.0961	.49167	.09227	.27772	.45246	.71719	.26934	.63948	.05942	.00018
#1	.05050	1.9497	1.0166	1.0344	1.9765	.04910	2.1150	47.754	.10211	.49110
#2	.04972	1.9362	1.0179	1.0303	1.9639	.04860	2.1069	47.324	.10220	.49110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19964**	**.24797**	**1.0151**	**50.541**	**1.0148**	**49.241**	**.48752**	**.99004**	**53.163**	**.49816**
Stddev	.00055	.00129	.0136	.263	.0035	.103	.00060	.00154	.162	.00081
%RSD	.27746	.52061	1.3413	.52058	.34614	.20833	.12330	.15592	.30524	.16274
#1	.19925	.24706	1.0247	50.727	1.0173	49.168	.48710	.99114	53.278	.49873
#2	.20004	.24888	1.0055	50.354	1.0123	49.313	.48795	.98895	53.048	.49758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.285**	**.49381**	**.09446**	**.50090**	**2.0203**	**9.6242**	F **20.596**	**1.9963**	**1.0082**	**1.0080**
Stddev	.017	.00095	.00585	.00056	.0031	.0364	.078	.0035	.0041	.0005
%RSD	.16091	.19285	6.1973	.11172	.15157	.37835	.37835	.17383	.41017	.05073
#1	10.296	.49449	.09860	.50129	2.0181	9.6499	20.651	1.9988	1.0111	1.0077
#2	10.273	.49314	.09033	.50050	2.0224	9.5984	20.541	1.9939	1.0053	1.0084
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							24.610			
Low Limit							20.100			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0045**	**2.0024**	**2.1332**	**.48446**	**.49230**	**.48917**
Stddev	.0002	.0008	.0007	.00108	.00396	.00001
%RSD	.02004	.04051	.03120	.22309	.80522	.00154
#1	1.0043	2.0030	2.1328	.48369	.48950	.48918
#2	1.0046	2.0019	2.1337	.48522	.49510	.48917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4066.3**	**48687.**	**5776.1**
Stddev	2.8	161.	20.5
%RSD	.06915	.33013	.35484
#1	4068.3	48801.	5761.7
#2	4064.3	48574.	5790.6

Sample Name: 280-23625-c-1-d Acquired: 12/14/2011 0:11:30 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**-.00875**	**-.00003**	**.43829**	**.07938**	**.00003**	**.00445**	**149.86**	**.00093**	**.00019**
Stddev	.00006	.00040	.00118	.00261	.00008	.00006	.00340	.65	.00006	.00005
%RSD	14.903	4.5768	3566.9	.59518	.10603	205.63	76.373	.43513	5.9021	26.964
#1	-.00043	-.00903	-.00087	.44013	.07944	-.00001	.00685	150.32	.00097	.00015
#2	-.00035	-.00847	.00080	.43644	.07932	.00007	.00204	149.39	.00089	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00064**	**.05294**	**1.9901**	**.04831**	**6.2096**	**.00054**	**.00154**	**67.933**	**.00113**
Stddev	.00029	.00038	.01268	.0086	.00152	.0562	.00002	.00024	.117	.00035
%RSD	69.080	60.151	23.946	.43384	3.1550	.90576	4.1822	15.867	.17201	30.993
#1	.00063	.00091	.04397	1.9840	.04939	6.2494	.00056	.00137	67.851	.00137
#2	.00022	.00037	.06190	1.9963	.04723	6.1698	.00052	.00172	68.016	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01285**	**-.00068**	**33.902**	**-.00416**	**.00189**	**12.382**	**26.498**	**-.00005**	**1.2241**	**.00091**
Stddev	.00109	.00005	.134	.00068	.00273	.057	.123	.00013	.0032	.00123
%RSD	8.4784	7.9358	.39559	16.231	144.33	.46246	.46246	262.33	.26078	135.26
#1	.01362	-.00072	33.997	-.00369	.00382	12.423	26.584	.00004	1.2264	.00004
#2	.01208	-.00064	33.808	-.00464	-.00004	12.342	26.411	-.00015	1.2219	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00159**	**.00230**	**-.01428**	**.00088**	**.00296**	**.00160**
Stddev	.00012	.00036	.02561	.00047	.00012	.00062
%RSD	7.7141	15.538	179.33	53.880	4.1548	38.766
#1	.00150	.00205	.00383	.00121	.00304	.00116
#2	.00167	.00256	-.03239	.00054	.00287	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4051.3**	**47901.**	**5729.2**
Stddev	11.8	45.	6.1
%RSD	.29134	.09384	.10641
#1	4043.0	47869.	5724.9
#2	4059.7	47932.	5733.5

Sample Name: 280-23625-c-1-dSD@5 Acquired: 12/14/2011 0:13:52 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00033**	**-.00112**	**.08402**	**.01618**	**.00002**	**.00043**	**30.451**	**.00051**	**-.00004**
Stddev	.00007	.00191	.00000	.00010	.00016	.00007	.00020	.100	.00003	.00001
%RSD	94.424	577.30	.06109	.11400	.97525	418.28	45.597	.32838	5.1607	21.109
#1	-.00012	-.00102	-.00112	.08409	.01629	-.00003	.00029	30.380	.00053	-.00004
#2	-.00002	.00168	-.00112	.08395	.01607	.00007	.00057	30.521	.00049	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.00007**	**.04027**	**.47918**	**.01211**	**1.2716**	**.00039**	**.00038**	**13.943**	**-.00003**
Stddev	.00013	.00005	.01128	.02690	.00015	.0074	.00003	.00011	.173	.00024
%RSD	44.375	65.956	28.007	5.6146	1.2416	.58267	8.5225	29.748	1.2398	754.65
#1	.00037	-.00004	.04825	.49820	.01200	1.2664	.00042	.00030	13.821	.00014
#2	.00020	-.00011	.03230	.46015	.01222	1.2769	.00037	.00045	14.065	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**-.00040**	**6.4605**	**-.00058**	**.00119**	**2.4615**	**5.2675**	**-.00018**	**.24966**	**.00039**
Stddev	.00272	.00058	.0071	.00021	.00161	.0063	.0136	.00017	.00060	.00040
%RSD	200.97	143.44	.10983	36.814	134.57	.25733	.25733	94.190	.23880	102.23
#1	-.00057	.00001	6.4655	-.00073	.00006	2.4570	5.2579	-.00006	.24924	.00067
#2	.00328	-.00081	6.4555	-.00043	.00233	2.4659	5.2771	-.00029	.25009	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00060**	**.00311**	**.00001**	**.00448**	**.00083**
Stddev	.00008	.00131	.00173	.00016	.00028	.00068
%RSD	14.828	220.25	55.710	2315.8	6.2652	82.070
#1	.00058	.00152	.00433	-.00010	.00467	.00131
#2	.00047	-.00033	.00188	.00012	.00428	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4124.5**	**49485.**	**5732.6**
Stddev	1.4	237.	23.3
%RSD	.03418	.47975	.40731
#1	4123.5	49653.	5749.1
#2	4125.5	49317.	5716.1

Sample Name: 280-23625-c-1-e ms Acquired: 12/14/2011 0:16:17 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05011**	**1.8888**	**1.0274**	**1.4732**	**2.0332**	**.04876**	F **2.1211**	**194.14**	**.10248**	**.48411**
Stddev	.00078	.0041	.0043	.0019	.0003	.00014	.0022	.25	.00018	.00020
%RSD	1.5598	.21928	.41697	.13069	.01548	.28933	.10223	.12635	.17214	.04044
#1	.05067	1.8917	1.0304	1.4745	2.0334	.04866	2.1227	194.32	.10261	.48425
#2	.04956	1.8858	1.0243	1.4718	2.0329	.04886	2.1196	193.97	.10236	.48397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19949**	**.25078**	**.95359**	**52.716**	**1.0634**	**54.167**	**.47977**	**.99400**	**119.30**	**.49180**
Stddev	.00046	.00116	.00286	.059	.0028	.115	.00079	.00113	.35	.00031
%RSD	.23049	.46454	.30034	.11137	.26530	.21178	.16529	.11347	.29444	.06280
#1	.19982	.24996	.95156	52.758	1.0614	54.086	.47921	.99480	119.54	.49202
#2	.19916	.25160	.95561	52.675	1.0654	54.249	.48033	.99320	119.05	.49159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **10.503**	**.48275**	**34.189**	**.50399**	**2.0251**	**22.006**	**47.093**	**1.9741**	**2.2157**	**1.0100**
Stddev	.023	.00143	.062	.00235	.0106	.052	.111	.0077	.0033	.0003
%RSD	.22180	.29632	.18098	.46706	.52209	.23602	.23602	.39003	.14754	.02752
#1	10.519	.48376	34.233	.50565	2.0176	22.043	47.172	1.9796	2.2134	1.0102
#2	10.486	.48174	34.146	.50232	2.0325	21.969	47.015	1.9687	2.2180	1.0098
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0085**	**1.9386**	**2.1024**	**.48449**	**.47314**	**.48522**
Stddev	.0000	.0000	.0253	.00188	.00384	.00140
%RSD	.00406	.00193	1.2043	.38761	.81235	.28830
#1	1.0085	1.9387	2.0845	.48316	.47043	.48423
#2	1.0084	1.9386	2.1203	.48582	.47586	.48621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3966.0**	**47547.**	**5760.6**
Stddev	1.0	359.	14.6
%RSD	.02609	.75558	.25399
#1	3966.8	47801.	5770.9
#2	3965.3	47293.	5750.2

Sample Name: 280-23625-c-1-f msd Acquired: 12/14/2011 0:18:25 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05117	1.9099	1.0413	1.4811	2.0557	.04924	F 2.1362	193.65	.10312	.48706
Stddev	.00037	.0022	.0020	.0005	.0147	.00027	.0003	1.31	.00032	.00044
%RSD	.72580	.11299	.18953	.03265	.71556	.55383	.01604	.67472	.30869	.08970
#1	.05143	1.9083	1.0399	1.4807	2.0661	.04944	2.1359	194.58	.10334	.48737
#2	.05090	1.9114	1.0427	1.4814	2.0453	.04905	2.1364	192.73	.10289	.48675
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20089	.25126	.96172	53.220	1.0768	54.411	.48302	1.0032	119.47	.49453
Stddev	.00065	.00051	.00476	.358	.0092	.052	.00024	.0009	.53	.00172
%RSD	.32187	.20429	.49478	.67276	.85526	.09503	.05072	.09410	.44142	.34862
#1	.20135	.25090	.96509	53.474	1.0833	54.374	.48284	1.0025	119.85	.49575
#2	.20043	.25163	.95836	52.967	1.0703	54.448	.48319	1.0039	119.10	.49331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W 10.566	.48558	34.150	.51156	2.0428	22.078	47.247	1.9950	2.2262	1.0135
Stddev	.012	.00140	.112	.00151	.0017	.145	.310	.0019	.0172	.0013
%RSD	.11541	.28791	.32693	.29540	.08099	.65700	.65700	.09714	.77192	.12558
#1	10.575	.48657	34.229	.51049	2.0440	22.180	47.466	1.9964	2.2383	1.0144
#2	10.557	.48459	34.071	.51263	2.0416	21.975	47.027	1.9937	2.2140	1.0126
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0195	1.9502	2.1019	.48868	.47878	.49422
Stddev	.0040	.0021	.0120	.00094	.00252	.00412
%RSD	.39489	.10945	.57092	.19223	.52573	.83373
#1	1.0166	1.9487	2.1104	.48935	.48056	.49713
#2	1.0223	1.9517	2.0935	.48802	.47700	.49130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	3936.8	46962.	5698.8
Stddev	6.2	254.	11.8
%RSD	.15855	.54185	.20777
#1	3932.4	47141.	5690.4
#2	3941.2	46782.	5707.2

Sample Name: 280-23625-c-2-b Acquired: 12/14/2011 0:20:33 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.01464**	**-.00014**	**.64440**	**.02723**	**-.00002**	**.00434**	**138.13**	**.00043**	**-.00003**
Stddev	.00040	.00140	.00282	.00023	.00011	.00000	.00197	.35	.00002	.00004
%RSD	310.74	9.5360	2036.8	.03567	.38821	16.346	45.359	.25668	3.7683	171.08
#1	-.00015	-.01366	-.00214	.64456	.02715	-.00002	.00295	138.38	.00042	.00001
#2	.00041	-.01563	.00186	.64423	.02730	-.00003	.00573	137.88	.00044	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00236**	**.00183**	**.01650**	**2.5630**	**.07273**	**9.3336**	**.00410**	**.00506**	**151.93**	**.00082**
Stddev	.00018	.00154	.00174	.0068	.00110	.0358	.00525	.00025	.41	.00016
%RSD	7.8344	84.237	10.557	.26411	1.5078	.38371	128.08	4.9650	.26666	19.411
#1	.00249	.00074	.01774	2.5582	.07195	9.3589	.00039	.00488	152.21	.00071
#2	.00223	.00292	.01527	2.5678	.07350	9.3082	.00782	.00524	151.64	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02437**	**.00115**	**100.43**	**-.00307**	**.00195**	**13.979**	**29.914**	**-.00132**	**1.6011**	**.00131**
Stddev	.00056	.00128	.18	.00009	.00436	.046	.098	.00020	.0005	.00132
%RSD	2.3128	111.73	.17629	2.8122	224.25	.32613	.32613	14.908	.03226	100.93
#1	.02398	.00024	100.55	-.00301	-.00114	14.011	29.983	-.00146	1.6015	.00037
#2	.02477	.00205	100.30	-.00313	.00503	13.946	29.845	-.00118	1.6008	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00243**	**.00315**	**-.02412**	**.00363**	**.00408**	**.00174**
Stddev	.00124	.00039	.00294	.00069	.00113	.00058
%RSD	51.262	12.275	12.196	19.111	27.799	33.528
#1	.00155	.00287	-.02620	.00314	.00328	.00216
#2	.00331	.00342	-.02204	.00412	.00488	.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3988.9**	**47353.**	**5743.4**
Stddev	3.4	73.	10.0
%RSD	.08484	.15367	.17375
#1	3991.3	47404.	5750.4
#2	3986.5	47302.	5736.3

Sample Name: 280-23625-c-3-b Acquired: 12/14/2011 0:22:56 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00791**	**.00109**	**.36792**	**.03132**	**.00007**	**.00449**	**120.65**	**.00030**	**.00021**
Stddev	.00012	.00124	.00087	.00073	.00022	.00001	.00155	.34	.00008	.00016
%RSD	131.25	15.708	80.239	.19876	.71268	12.840	34.575	.28337	25.235	77.261
#1	-.00018	-.00703	.00170	.36844	.03117	.00006	.00339	120.41	.00035	.00009
#2	-.00001	-.00878	.00047	.36741	.03148	.00007	.00559	120.89	.00025	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00041**	**.01390**	**2.1607**	**.05057**	**5.9748**	**.00031**	**.00119**	**52.156**	**.00084**
Stddev	.00014	.00033	.00141	.0217	.00079	.0148	.00003	.00008	.078	.00006
%RSD	32.125	79.889	10.159	1.0054	1.5592	.24712	9.9130	6.4883	.15021	6.9518
#1	.00055	.00018	.01489	2.1453	.05001	5.9852	.00029	.00124	52.101	.00088
#2	.00035	.00064	.01290	2.1760	.05112	5.9643	.00033	.00113	52.212	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00339**	**-.00099**	**29.477**	**-.00521**	**.00424**	**10.103**	**21.621**	**-.00128**	**.97964**	**-.00091**
Stddev	.00001	.00162	.027	.00114	.00197	.029	.062	.00072	.00661	.00157
%RSD	.16084	163.25	.09145	21.996	46.412	.28545	.28545	56.205	.67522	172.77
#1	.00339	-.00213	29.496	-.00440	.00285	10.083	21.578	-.00077	.97496	.00020
#2	.00339	.00015	29.458	-.00601	.00563	10.124	21.665	-.00179	.98431	-.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00205**	**-.00122**	**.00067**	**.00314**	**.00204**
Stddev	.00021	.00033	.01705	.00023	.00015	.00166
%RSD	20.217	15.951	1395.0	33.866	4.8217	81.053
#1	.00088	.00182	.01083	.00084	.00324	.00087
#2	.00118	.00228	-.01328	.00051	.00303	.00322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4049.2**	**47962.**	**5715.8**
Stddev	17.3	22.	21.7
%RSD	.42815	.04571	.37962
#1	4037.0	47977.	5731.1
#2	4061.5	47946.	5700.4

Sample Name: CCVH-1169743 Acquired: 12/14/2011 0:25:19 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00128**	**48.677**	**-.00030**	**.00327**	**.00059**	**-.00014**	**.98924**	**.00906**	**-.00056**	**.00077**	**.00054**	**-.00213**	**48.935**
Stddev	.00053	.193	.00263	.00014	.00019	.00002	.00101	.00052	.00007	.00018	.00001	.00032	.106
%RSD	41.176	.39555	871.27	4.3369	31.382	11.426	.10240	5.7456	12.503	23.775	.93608	15.226	.21703
#1	-.00165	48.813	-.00216	.00317	.00046	-.00013	.98852	.00943	-.00051	.00090	.00054	-.00190	48.860
#2	-.00091	48.541	.00156	.00337	.00072	-.00015	.98995	.00869	-.00061	.00064	.00054	-.00235	49.010
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16156**	**.00556**	**.00089**	**-.00147**	**-.00184**	**249.95**	**.00095**	**.00152**	**-.00131**	**4.8211**	**-.00346**	**.00166**	**.00982**
Stddev	.02271	.00140	.00116	.00002	.00006	.97	.00001	.00032	.00066	.0226	.00034	.00339	.00978
%RSD	14.056	25.200	131.25	1.4175	3.3278	.38937	1.4775	20.945	50.789	.46934	9.9604	204.10	99.597
#1	.14550	.00457	.00006	-.00148	-.00188	250.64	.00094	.00129	-.00084	4.8371	-.00322	-.00074	.00290
#2	.17761	.00655	.00171	-.00146	-.00180	249.26	.00096	.00174	-.00178	4.8051	-.00371	.00406	.01673
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02101**	**.00186**	**.00048**	**4.7954**	**.00197**	**-.00325**	**9.9292**	**-.00061**	**.00184**	**-.01586**
Stddev	.02093	.00068	.00002	.0177	.00018	.00094	.0549	.00059	.00027	.00422
%RSD	99.597	36.638	4.2058	.36848	9.3345	28.893	.55312	96.953	14.798	26.584
#1	.00621	.00138	.00047	4.7829	.00210	-.00258	9.8903	-.00103	.00164	-.01288
#2	.03581	.00235	.00049	4.8079	.00184	-.00391	9.9680	-.00019	.00203	-.01885
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4024.4**	**47782.**	**5710.3**
Stddev	2.4	44.	13.6
%RSD	.05972	.09142	.23889
#1	4022.7	47813.	5719.9
#2	4026.1	47751.	5700.7

Sample Name: CCV-1169927 Acquired: 12/14/2011 0:27:39 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47971**	**.49574**	**.97923**	**.49170**	**.48546**	**.48706**	**.00244**	**4.8711**	**.49337**	**.49931**	**.50021**	**.49086**	**2.3770**
Stddev	.00118	.00326	.00321	.00153	.00076	.00048	.00082	.0064	.00064	.00017	.00006	.00051	.0037
%RSD	.24697	.65738	.32821	.31044	.15613	.09939	33.728	.13220	.13023	.03357	.01225	.10406	.15351
#1	.47887	.49805	.97696	.49278	.48493	.48672	.00302	4.8756	.49382	.49919	.50026	.49050	2.3796
#2	.48055	.49344	.98150	.49062	.48600	.48740	.00186	4.8665	.49291	.49943	.50017	.49122	2.3744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.097**	**1.0147**	**19.302**	**.48103**	**.49610**	**5.0513**	**.49940**	**.97808**	**.97631**	**.05708**	**.98203**	**.95669**	**4.8253**
Stddev	.032	.0010	.060	.00104	.00027	.0065	.00006	.00088	.00249	.00410	.00024	.00703	.0031
%RSD	.06485	.09496	.31241	.21720	.05371	.12956	.01261	.08956	.25544	7.1744	.02451	.73506	.06364
#1	50.074	1.0154	19.345	.48176	.49592	5.0467	.49935	.97746	.97455	.05997	.98186	.96166	4.8231
#2	50.120	1.0141	19.260	.48029	.49629	5.0560	.49944	.97870	.97807	.05418	.98220	.95172	4.8274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.326**	**.99421**	**.50107**	**-.00101**	**.49630**	**.99701**	**-.00708**	**.48068**	**.48547**	**.47911**
Stddev	.007	.00091	.00008	.00111	.00097	.00476	.01127	.00001	.00586	.00085
%RSD	.06364	.09113	.01548	109.48	.19460	.47705	159.13	.00268	1.2081	.17708
#1	10.321	.99357	.50113	-.00180	.49698	1.0004	.00089	.48069	.48962	.47971
#2	10.331	.99485	.50102	-.00023	.49561	.99364	-.01505	.48067	.48132	.47851
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4126.7**	**49414.**	**5693.2**
Stddev	1.5	23.	13.4
%RSD	.03710	.04705	.23519
#1	4127.8	49397.	5702.7
#2	4125.6	49430.	5683.8

Sample Name: CCB Acquired: 12/14/2011 0:29:51 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.00196**	**.00160**	**.00138**	**-.00011**	**.00001**	**.00104**	**-.00045**	**.00026**	**.00012**	**-.00013**	**-.00021**
Stddev	.00001	.00291	.00041	.00022	.00004	.00005	.00086	.00314	.00002	.00028	.00017	.00054
%RSD	3.6809	148.64	25.397	16.167	40.967	609.00	82.585	695.07	6.7671	234.30	133.80	253.08
#1	-.00026	.00010	.00131	.00154	-.00014	.00004	.00043	.00177	.00027	.00031	-.00025	.00017
#2	-.00027	-.00401	.00189	.00123	-.00008	-.00003	.00164	-.00268	.00025	-.00008	-.00001	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00808**	**.08719**	W **.00317**	**.00040**	**.00003**	**.00034**	**.08023**	**-.00019**	**.00046**	**.00025**	**.06747**	**.00163**
Stddev	.00156	.00251	.00157	.00035	.00003	.00031	.01031	.00031	.00105	.00063	.01333	.00081
%RSD	19.271	2.8810	49.533	86.737	109.80	91.656	12.845	165.28	227.27	251.32	19.762	50.002
#1	.00918	.08896	.00206	.00015	.00005	.00012	.08752	-.00041	.00120	-.00019	.07690	.00220
#2	.00698	.08541	.00428	.00064	.00001	.00057	.07294	.00003	-.00028	.00069	.05804	.00105
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00261									
Low Limit			-.00261									

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.00089**	**.00190**	**-.00038**	**.00003**	**.00003**	**.00023**	**.00004**	**-.00556**	**.00006**	**.00142**	W **.00246**
Stddev	.00163	.00156	.00333	.00026	.00005	.00015	.00022	.00029	.02562	.00043	.00017	.00084
%RSD	196.22	174.85	174.85	69.270	138.09	582.51	95.585	715.39	460.86	695.21	12.260	33.925
#1	.00032	.00199	.00426	-.00019	.00006	.00013	.00039	-.00016	-.02368	-.00024	.00130	.00305
#2	-.00199	-.00021	-.00045	-.00056	.00000	-.00008	.00008	.00024	.01256	.00036	.00154	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit												.00238
Low Limit												-.00238

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4131.8**	**50232.**	**5654.6**
Stddev	8.2	58.	4.8
%RSD	.19737	.11520	.08515
#1	4126.0	50191.	5658.0
#2	4137.5	50273.	5651.2

Sample Name: CCVL1171013 Acquired: 12/14/2011 0:32:18 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .00603	F .05770	F .00902	.10433	F .00602	F .00059	F .06798	F .11754	F .00329	F .00646	F .00618	F .00886	F .06625
Stddev	.00034	.00154	.00168	.00057	.00018	.00001	.00097	.00106	.00004	.00009	.00020	.00002	.00150
%RSD	5.6346	2.6671	18.684	.54897	2.9860	2.2646	1.4233	.90148	1.2685	1.4559	3.2614	.27859	2.2581
#1	.00579	.05879	.00783	.10392	.00589	.00058	.06730	.11829	.00332	.00640	.00604	.00887	.06731
#2	.00627	.05661	.01021	.10473	.00615	.00060	.06867	.11679	.00326	.00653	.00632	.00884	.06519
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.01000	.10000	.01500		.01000	.00100	.10000	.20000	.00500	.01000	.01000	.01500	.10000
Range	-30.000%	-30.000%	-30.000%		-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.0029	.00884	F .12404	F .00618	.02050	F .69256	F .02464	3.0297	F .00506	.05902	.00909	F .00632	.48790
Stddev	.0197	.00158	.00301	.00000	.00010	.00455	.00002	.0053	.00063	.00044	.00184	.00237	.00209
%RSD	.98564	17.883	2.4297	.07973	.50078	.65670	.09142	.17584	12.422	.75145	20.276	37.458	.42877
#1	2.0168	.00996	.12617	.00618	.02042	.68935	.02463	3.0260	.00461	.05933	.01040	.00464	.48938
#2	1.9889	.00772	.12190	.00619	.02057	.69578	.02466	3.0335	.00550	.05870	.00779	.00799	.48642
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	None	Chk Pass	Chk Fail	Chk Pass
Value	3.0000		.20000	.01000		1.0000	.04000		.00900			.01500	
Range	-30.000%		-30.000%	-30.000%		-30.000%	-30.000%		-30.000%			-30.000%	

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0441	.10485	F .00617	F .00926	.01049	F .01049	F .03484	F .00573	F .01372	.01679
Stddev	.0045	.00004	.00009	.00069	.00002	.00175	.02347	.00025	.00044	.00027
%RSD	.42877	.04161	1.5312	7.4737	.23393	16.735	67.375	4.4123	3.2192	1.6251
#1	1.0473	.10482	.00623	.00878	.01047	.01173	.05143	.00591	.01403	.01660
#2	1.0409	.10488	.00610	.00975	.01051	.00924	.01824	.00555	.01340	.01698
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
Value			.01000	.01500		.01500	.06000	.01000	.02000	
Range			-30.000%	-30.000%		-30.000%	-30.000%	-30.000%	-30.000%	

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	4236.9	51349.	5777.5
Stddev	3.9	51.	24.3
%RSD	.09157	.09845	.42005
#1	4239.6	51385.	5794.6
#2	4234.1	51314.	5760.3

Sample Name: 280-23625-c-4-b Acquired: 12/14/2011 0:34:41 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00466**	**-.00027**	**.79389**	**.02413**	**.00008**	**.00596**	**111.20**	**.00026**	**.00007**
Stddev	.00011	.00091	.00087	.00224	.00015	.00007	.00134	.32	.00007	.00010
%RSD	93.773	19.444	320.43	.28221	.62767	92.269	22.511	.29152	26.454	149.36
#1	.00004	-.00530	-.00088	.79231	.02424	.00013	.00501	110.97	.00021	.00000
#2	.00019	-.00402	.00034	.79548	.02402	.00003	.00690	111.43	.00031	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00041**	**.06300**	**2.1488**	**.05924**	**6.1546**	**.00089**	**.00139**	**68.639**	**.00081**
Stddev	.00013	.00001	.07033	.0263	.00004	.0150	.00003	.00032	.083	.00007
%RSD	46.457	2.2556	111.63	1.2238	.06329	.24334	3.2419	23.286	.12149	9.1030
#1	.00019	.00040	.11273	2.1302	.05921	6.1440	.00091	.00116	68.698	.00076
#2	.00038	.00041	.01327	2.1674	.05926	6.1651	.00087	.00162	68.580	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00539**	**.00059**	**45.744**	**-.00421**	**.00584**	**11.973**	**25.622**	**.00503**	**.90301**	**.00093**
Stddev	.00242	.00056	.040	.00178	.00156	.002	.005	.00024	.00217	.00055
%RSD	44.848	94.518	.08635	42.265	26.709	.01802	.01802	4.7943	.24078	59.005
#1	.00368	.00099	45.716	-.00295	.00695	11.971	25.618	.00520	.90148	.00132
#2	.00710	.00020	45.772	-.00546	.00474	11.974	25.625	.00486	.90455	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**.00230**	**-.01568**	**.00082**	**.00339**	**.00214**
Stddev	.00003	.00045	.02694	.00004	.00053	.00110
%RSD	3.0934	19.564	171.74	4.5661	15.703	51.630
#1	.00095	.00198	.00336	.00079	.00301	.00136
#2	.00099	.00261	-.03473	.00084	.00376	.00292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4056.0**	**48273.**	**5766.2**
Stddev	10.8	160.	6.3
%RSD	.26553	.33221	.10902
#1	4063.6	48386.	5770.6
#2	4048.4	48159.	5761.7

Sample Name: 280-23625-c-5-b Acquired: 12/14/2011 0:37:04 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.01984**	**.00088**	**1.1353**	**.02015**	**.00009**	**.00407**	**180.23**	**.00027**	**-.00002**
Stddev	.00014	.00152	.00151	.0012	.00002	.00000	.00265	.62	.00005	.00028
%RSD	528.55	7.6424	171.05	.10280	.11871	5.3792	65.132	.34345	17.601	1788.7
#1	.00013	-.02091	.00194	1.1361	.02017	.00010	.00219	180.67	.00024	.00018
#2	-.00007	-.01877	-.00018	1.1345	.02013	.00009	.00594	179.80	.00030	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00099**	**.00034**	**.01000**	**2.6769**	**.08321**	**10.318**	**.00052**	**.00118**	**96.014**	**.00200**
Stddev	.00011	.00010	.00085	.0111	.00070	.012	.00001	.00002	.297	.00022
%RSD	11.355	30.231	8.5015	.41355	.83546	.11807	1.1661	1.4292	.30923	10.999
#1	.00091	.00041	.01060	2.6690	.08272	10.327	.00052	.00117	96.224	.00215
#2	.00107	.00027	.00939	2.6847	.08370	10.310	.00053	.00119	95.804	.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00360**	**-.00135**	**107.65**	**-.00566**	**.00745**	**14.445**	**30.911**	**-.00058**	**1.6095**	**-.00054**
Stddev	.00110	.00076	.14	.00077	.00224	.040	.085	.00022	.0050	.00116
%RSD	30.448	56.358	.13029	13.555	30.041	.27463	.27463	37.954	.31093	215.90
#1	.00283	-.00081	107.75	-.00620	.00904	14.473	30.971	-.00074	1.6131	.00028
#2	.00438	-.00189	107.55	-.00511	.00587	14.417	30.851	-.00042	1.6060	-.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00149**	**.00240**	**-.01692**	**.00045**	**.00266**	**.00218**
Stddev	.00014	.00083	.00905	.00028	.00022	.00067
%RSD	9.3561	34.689	53.514	62.158	8.4538	30.533
#1	.00139	.00299	-.02332	.00064	.00250	.00171
#2	.00159	.00181	-.01052	.00025	.00282	.00265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3998.2**	**47638.**	**5772.2**
Stddev	9.6	87.	10.2
%RSD	.23957	.18192	.17689
#1	3991.4	47699.	5779.4
#2	4005.0	47576.	5765.0

Sample Name: 280-23625-c-6-b Acquired: 12/14/2011 0:39:26 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**-.02179**	**.00047**	**.97953**	**.02232**	**.00005**	**.00426**	**170.30**	**.00009**	**.00153**
Stddev	.00029	.00095	.00185	.00171	.00006	.00007	.00121	.15	.00001	.00012
%RSD	47.509	4.3479	388.57	.17470	.24772	127.97	28.452	.08645	6.0812	8.0026
#1	.00082	-.02112	.00178	.98074	.02228	.00001	.00340	170.20	.00009	.00144
#2	.00041	-.02246	-.00083	.97832	.02236	.00010	.00511	170.41	.00008	.00161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**.00045**	**.05419**	**2.2025**	**.06423**	**8.1899**	**.04192**	**.00313**	**214.10**	**.00176**
Stddev	.00001	.00008	.00186	.0260	.00107	.0061	.00005	.00036	.82	.00021
%RSD	.91621	17.733	3.4273	1.1796	1.6714	.07460	.12186	11.365	.38520	12.135
#1	.00069	.00050	.05288	2.2209	.06348	8.1856	.04189	.00287	213.52	.00191
#2	.00068	.00039	.05550	2.1842	.06499	8.1942	.04196	.00338	214.68	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03468**	**.00051**	**114.67**	**-.00456**	**-.00391**	**10.462**	**22.388**	**-.00069**	**2.1901**	**-.00084**
Stddev	.00136	.00093	.19	.00072	.00554	.014	.030	.00024	.0082	.00037
%RSD	3.9130	184.08	.16460	15.863	141.86	.13431	.13431	35.444	.37295	43.984
#1	.03372	.00116	114.80	-.00405	-.00783	10.471	22.409	-.00051	2.1844	-.00058
#2	.03564	-.00015	114.53	-.00507	.00001	10.452	22.366	-.00086	2.1959	-.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**.00196**	**-.02065**	**.00053**	**.00353**	**.00118**
Stddev	.00002	.00025	.01266	.00003	.00001	.00022
%RSD	1.7809	12.529	61.298	5.4151	.36049	18.890
#1	.00109	.00214	-.01170	.00051	.00352	.00133
#2	.00112	.00179	-.02960	.00055	.00354	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3944.5**	**46618.**	**5729.5**
Stddev	1.4	132.	58.6
%RSD	.03539	.28278	1.0220
#1	3943.5	46711.	5770.9
#2	3945.5	46525.	5688.1

Sample Name: 280-23625-c-7-b Acquired: 12/14/2011 0:41:47 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.01487**	**-.00021**	**.94250**	**.03562**	**.00005**	**.00524**	**155.25**	**.00010**	**-.00001**
Stddev	.00020	.00021	.00023	.00003	.00007	.00002	.00088	.06	.00011	.00007
%RSD	211.75	1.4450	109.34	.00300	.18770	41.654	16.716	.03603	113.58	616.10
#1	-.00024	-.01472	-.00037	.94252	.03557	.00004	.00586	155.29	.00002	.00004
#2	.00005	-.01503	-.00005	.94248	.03566	.00007	.00462	155.21	.00018	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**.00076**	**.02501**	**1.8577**	**.06937**	**8.7371**	**.00026**	**.00124**	**143.49**	**.00030**
Stddev	.00003	.00020	.02457	.0655	.00057	.0042	.00002	.00013	.34	.00005
%RSD	3.1379	26.173	98.255	3.5256	.82520	.04779	6.0655	10.491	.23354	15.598
#1	.00085	.00090	.04239	1.8114	.06897	8.7341	.00025	.00134	143.25	.00026
#2	.00081	.00062	.00763	1.9041	.06978	8.7400	.00027	.00115	143.72	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00374**	**.00011**	**96.664**	**-.00525**	**-.00161**	**11.630**	**24.888**	**-.00164**	**1.8930**	**.00018**
Stddev	.00002	.00145	.085	.00036	.00235	.010	.022	.00020	.0012	.00044
%RSD	.58568	1362.2	.08787	6.7833	145.84	.08811	.08811	11.895	.06197	249.41
#1	.00372	-.00092	96.724	-.00551	-.00327	11.637	24.904	-.00151	1.8921	.00049
#2	.00375	.00113	96.604	-.00500	.00005	11.623	24.873	-.00178	1.8938	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**.00237**	**-.02293**	**.00024**	**.00544**	**.00297**
Stddev	.00012	.00080	.00003	.00014	.00044	.00150
%RSD	10.400	33.896	.11816	61.315	8.1313	50.405
#1	.00107	.00293	-.02291	.00013	.00513	.00191
#2	.00124	.00180	-.02295	.00034	.00576	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3980.8**	**47170.**	**5690.6**
Stddev	2.5	14.	43.2
%RSD	.06394	.02867	.75971
#1	3979.0	47180.	5721.2
#2	3982.6	47160.	5660.1

Sample Name: 280-23625-c-8-b Acquired: 12/14/2011 0:44:09 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	W **-.05910**	**-.00122**	**1.6992**	**.01671**	**.00002**	**.00625**	W **579.87**	**.00035**	**.00026**
Stddev	.00046	.00042	.00018	.0057	.00029	.00003	.00019	6.72	.00002	.00014
%RSD	92.632	.71159	14.459	.33440	1.7188	132.46	3.0514	1.1589	6.2936	52.004
#1	-.00017	-.05880	-.00110	1.7032	.01692	.00004	.00611	584.62	.00037	.00017
#2	-.00083	-.05940	-.00134	1.6952	.01651	.00000	.00638	575.12	.00034	.00036
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit		2.5000						500.00		
Low Limit		-.05000						-.05000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00119**	**.00107**	**.05485**	**5.4049**	**.26647**	**57.236**	**.01426**	**.00092**	**472.66**	**.00226**
Stddev	.00013	.00009	.00007	.0331	.00466	.403	.00004	.00008	.11	.00004
%RSD	10.935	8.5552	.12380	.61287	1.7504	.70414	.25658	8.4633	.02431	1.8318
#1	.00110	.00114	.05480	5.3815	.26317	56.951	.01424	.00098	472.74	.00223
#2	.00128	.00101	.05489	5.4283	.26977	57.521	.01429	.00087	472.58	.00229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00103**	F **661.26**	**-.00895**	**.00216**	**11.912**	**25.491**	**-.00221**	W **11.026**	**-.00177**
Stddev	.00082	.00132	3.22	.00040	.00219	.041	.087	.00093	.221	.00011
%RSD	355.45	128.27	.48710	4.4786	101.26	.34022	.34022	42.053	2.0006	6.4344
#1	.00035	.00010	663.54	-.00867	.00371	11.941	25.553	-.00287	10.870	-.00185
#2	-.00081	.00196	658.98	-.00923	.00061	11.883	25.430	-.00155	11.181	-.00169
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit			200.00						5.0000	
Low Limit			-.20000						-.01000	

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00343**	**.00401**	**.00269**	**.00156**	**.00520**	**.00125**
Stddev	.00001	.00078	.02758	.00019	.00045	.00138
%RSD	.28905	19.419	1025.1	11.888	8.6828	110.42
#1	.00342	.00456	.02219	.00169	.00488	.00027
#2	.00343	.00346	-.01681	.00143	.00552	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3718.5**	**43374.**	**5517.5**
Stddev	20.4	102.	26.8
%RSD	.54905	.23529	.48625
#1	3704.1	43446.	5498.5
#2	3733.0	43302.	5536.4

Sample Name: 280-23625-c-9-b Acquired: 12/14/2011 0:46:49 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00366**	**.00019**	**.00304**	**-.00004**	**.00006**	**.00504**	**.10419**	**-.00016**	**.00027**
Stddev	.00035	.00010	.00067	.00054	.00008	.00009	.00000	.00489	.00012	.00013
%RSD	758.07	2.7107	357.09	17.731	222.42	139.95	.09632	4.6885	76.990	49.946
#1	-.00030	-.00373	-.00029	.00343	-.00009	.00000	.00504	.10765	-.00007	.00017
#2	.00020	-.00359	.00066	.00266	.00002	.00013	.00504	.10074	-.00025	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00019**	**.00766**	**.16252**	**.00361**	**.01175**	**.00023**	**-.00004**	**.40754**	**.00016**
Stddev	.00004	.00030	.00054	.01029	.00150	.00230	.00001	.00007	.01357	.00011
%RSD	18.278	154.67	7.1000	6.3344	41.681	19.588	4.0318	182.96	3.3291	69.616
#1	.00017	-.00002	.00728	.16980	.00467	.01012	.00024	.00001	.41713	.00008
#2	.00022	.00040	.00805	.15524	.00254	.01338	.00022	-.00009	.39794	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.00099**	**.20984**	**-.00305**	**-.00135**	**.04860**	**.10401**	**-.00113**	**.00179**	**.00045**
Stddev	.00183	.00029	.00444	.00113	.00198	.00389	.00832	.00025	.00012	.00066
%RSD	513.38	29.741	2.1151	37.207	146.43	7.9979	7.9979	22.001	6.9268	146.12
#1	-.00094	-.00078	.21298	-.00225	.00005	.04585	.09813	-.00096	.00188	-.00002
#2	.00165	-.00120	.20670	-.00385	-.00275	.05135	.10989	-.00131	.00170	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00170**	**-.01986**	**.00002**	**.00269**	**.00152**
Stddev	.00003	.00044	.01059	.00013	.00004	.00012
%RSD	8.9826	25.809	53.330	573.41	1.5758	8.1283
#1	.00029	.00139	-.02735	-.00007	.00272	.00144
#2	.00033	.00200	-.01237	.00012	.00266	.00161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4265.6**	**51447.**	**5932.3**
Stddev	16.3	212.	10.7
%RSD	.38208	.41131	.18047
#1	4277.1	51597.	5939.9
#2	4254.0	51297.	5924.8

Sample Name: 280-23625-c-11-b Acquired: 12/14/2011 0:49:16 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.00601**	**-.00193**	**.39840**	**.07903**	**.00006**	**.00421**	**144.81**	**.00002**	**.00024**
Stddev	.00010	.00277	.00031	.00089	.00030	.00005	.00111	.36	.00006	.00004
%RSD	17.981	46.087	16.247	.22349	.37608	80.225	26.243	.24962	335.62	15.584
#1	-.00049	-.00405	-.00171	.39903	.07882	.00009	.00499	144.55	.00006	.00021
#2	-.00063	-.00797	-.00216	.39777	.07924	.00003	.00343	145.06	-.00003	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00064**	**.01233**	**1.8632**	**.04329**	**5.7455**	**.00014**	**.00059**	**63.660**	**.00059**
Stddev	.00004	.00015	.00109	.0250	.00023	.0025	.00007	.00013	.262	.00006
%RSD	5.7043	23.302	8.8463	1.3397	.53093	.04387	50.203	22.088	.41092	10.403
#1	.00069	.00054	.01156	1.8456	.04345	5.7473	.00019	.00050	63.845	.00055
#2	.00063	.00075	.01310	1.8809	.04312	5.7437	.00009	.00069	63.475	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01458**	**.00035**	**29.182**	**-.00303**	**-.00044**	**12.136**	**25.971**	**-.00056**	**1.1526**	**-.00037**
Stddev	.00197	.00026	.022	.00014	.00296	.004	.008	.00021	.0032	.00083
%RSD	13.499	74.957	.07387	4.5159	668.18	.03165	.03165	38.020	.27403	221.80
#1	.01597	.00054	29.198	-.00293	-.00253	12.139	25.977	-.00041	1.1504	.00021
#2	.01319	.00016	29.167	-.00312	.00165	12.133	25.965	-.00071	1.1549	-.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**.00204**	**-.02034**	**.00051**	**.00331**	**.00128**
Stddev	.00012	.00068	.01618	.00002	.00043	.00039
%RSD	11.828	33.438	79.549	3.1694	12.987	30.158
#1	.00089	.00252	-.03178	.00049	.00362	.00156
#2	.00106	.00155	-.00890	.00052	.00301	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4027.3**	**47993.**	**5820.7**
Stddev	1.7	37.	33.1
%RSD	.04116	.07736	.56862
#1	4028.5	48019.	5844.1
#2	4026.1	47967.	5797.3

Sample Name: CCVH-1169743 Acquired: 12/14/2011 0:51:39 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**48.523**	**-.00057**	**.00288**	**.00054**	**-.00013**	**.98683**	**.00417**	**-.00077**	**.00076**	**.00051**	**-.00236**
Stddev	.00011	.133	.00239	.00005	.00015	.00007	.00271	.00105	.00002	.00012	.00014	.00058
%RSD	7.8558	.27510	418.41	1.7210	27.560	50.799	.27421	25.092	2.4471	16.226	28.232	24.585
#1	-.00154	48.428	.00112	.00291	.00043	-.00018	.98491	.00491	-.00076	.00067	.00061	-.00195
#2	-.00138	48.617	-.00226	.00284	.00064	-.00008	.98874	.00343	-.00078	.00085	.00041	-.00278
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None
Value												
Range												

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.653**	**.14183**	**.00724**	**-.00376**	**-.00155**	**-.00174**	**248.26**	**.00076**	**.00176**	**-.00086**	W **4.6971**	**-.00305**
Stddev	.128	.00100	.00028	.00001	.00007	.00001	.32	.00013	.00138	.00036	.0227	.00080
%RSD	.26236	.70339	3.8969	.31521	4.6782	.37511	.12887	16.493	78.527	41.518	.48430	26.113
#1	48.563	.14112	.00704	-.00376	-.00160	-.00173	248.04	.00067	.00273	-.00061	4.7132	-.00249
#2	48.743	.14253	.00744	-.00377	-.00150	-.00174	248.49	.00085	.00078	-.00111	4.6810	-.00362
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None	None	None	Chk Warn	None
Value											5.0000	
Range											-5.0000%	

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00468**	**.01901**	**.04067**	**.00167**	**.00043**	**4.7685**	**.00248**	**-.00377**	**9.9086**	**-.00076**	**.00166**	**-.01502**
Stddev	.00187	.00822	.01759	.00047	.00002	.0089	.00002	.00093	.0410	.00027	.00003	.00066
%RSD	40.014	43.246	43.246	27.908	4.6189	.18592	.69131	24.622	.41372	35.620	1.8058	4.3786
#1	.00336	.01319	.02824	.00134	.00042	4.7747	.00246	-.00311	9.9376	-.00095	.00168	-.01456
#2	.00601	.02482	.05311	.00200	.00045	4.7622	.00249	-.00442	9.8796	-.00056	.00164	-.01549
Check ?	None	None	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value												
Range												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4054.5**	**48103.**	**5758.7**
Stddev	.5	7.	11.4
%RSD	.01154	.01483	.19844
#1	4054.1	48098.	5766.7
#2	4054.8	48108.	5750.6

Sample Name: CCV-1169927 Acquired: 12/14/2011 0:54:00 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47562**	**.48991**	**.96361**	**.48876**	**.48604**	**.48658**	**.00053**	**4.8744**	**.49212**	**.49772**	**.50018**	**.49027**	**2.3689**
Stddev	.00211	.00200	.00734	.00141	.00058	.00073	.00033	.0212	.00053	.00083	.00081	.00016	.0099
%RSD	.44294	.40835	.76199	.28799	.11919	.15062	61.042	.43486	.10749	.16620	.16277	.03181	.41760
#1	.47413	.48849	.95842	.48777	.48563	.48710	.00030	4.8595	.49175	.49714	.49960	.49016	2.3619
#2	.47711	.49132	.96880	.48976	.48645	.48607	.00077	4.8894	.49250	.49831	.50075	.49038	2.3759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.347**	**1.0198**	**19.199**	**.47560**	**.49555**	**5.1259**	**.49805**	**.96699**	**.96351**	**.05498**	**.98063**	**.94093**	**4.7868**
Stddev	.095	.0006	.027	.00038	.00058	.0606	.00098	.00451	.00195	.00395	.00500	.00054	.0002
%RSD	.18872	.05734	.14133	.07956	.11704	1.1831	.19679	.46663	.20197	7.1765	.50955	.05726	.00477
#1	50.280	1.0194	19.218	.47533	.49514	5.0830	.49735	.96380	.96213	.05777	.97710	.94131	4.7869
#2	50.415	1.0202	19.180	.47587	.49596	5.1688	.49874	.97018	.96488	.05219	.98417	.94055	4.7866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.244**	**.99113**	**.50465**	**-.00001**	**.49704**	**.99600**	**-.02832**	**.47672**	**.47581**	**.47856**
Stddev	.000	.00159	.00011	.00018	.00063	.00139	.00480	.00141	.00077	.00162
%RSD	.00477	.16073	.02207	1358.7	.12687	.13936	16.959	.29661	.16143	.33867
#1	10.244	.99000	.50457	.00012	.49659	.99699	-.02493	.47572	.47526	.47742
#2	10.243	.99225	.50473	-.00014	.49749	.99502	-.03172	.47772	.47635	.47971
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4140.5**	**49615.**	**5776.9**
Stddev	11.3	192.	1.0
%RSD	.27266	.38631	.01731
#1	4148.4	49751.	5776.2
#2	4132.5	49479.	5777.6

Sample Name: CCB Acquired: 12/14/2011 0:56:13 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00257**	**-.00108**	**.00143**	**-.00012**	**.00002**	**-.00108**	**-.00031**	**.00007**	**.00027**	**.00001**	**-.00044**
Stddev	.00024	.00318	.00097	.00014	.00002	.00001	.00024	.00375	.00004	.00003	.00001	.00003
%RSD	561.27	123.78	90.133	9.7372	19.678	40.142	22.026	1219.0	65.402	11.783	99.445	7.8952
#1	-.00022	-.00032	-.00176	.00153	-.00014	.00003	-.00125	-.00296	.00004	.00029	.00000	-.00041
#2	.00013	-.00481	-.00039	.00133	-.00010	.00002	-.00091	.00235	.00010	.00024	.00002	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.11538**	F **.00525**	**-.00011**	**.00003**	**.00016**	W **.09573**	**-.00011**	**-.00035**	**-.00032**	**.05848**	**.00186**
Stddev	.00006	.01867	.00096	.00178	.00002	.00009	.00360	.00003	.00030	.00069	.00266	.00069
%RSD	20.880	16.183	18.276	1639.8	91.580	56.670	3.7576	27.996	87.494	217.82	4.5414	36.904
#1	.00031	.12859	.00458	-.00136	.00001	.00010	.09827	-.00014	-.00056	-.00081	.06036	.00234
#2	.00023	.10218	.00593	.00115	.00004	.00022	.09318	-.00009	-.00013	.00017	.05661	.00137
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00522				.09160					
Low Limit			-.00522				-.09160					

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00152**	**-.00325**	**-.00012**	**.00009**	**-.00153**	**.00012**	**.00010**	**-.00212**	**.00020**	**.00159**	**.00123**
Stddev	.00016	.00335	.00717	.00003	.00002	.00019	.00019	.00027	.01060	.00037	.00026	.00024
%RSD	751.55	220.54	220.54	20.796	25.049	12.697	160.70	265.46	500.17	181.77	16.118	19.876
#1	.00013	.00085	.00182	-.00011	.00007	-.00139	.00025	-.00009	.00537	.00046	.00141	.00106
#2	-.00009	-.00389	-.00832	-.00014	.00010	-.00166	-.00002	.00029	-.00961	-.00006	.00177	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4151.7**	**50355.**	**5696.9**
Stddev	11.6	66.	10.1
%RSD	.27834	.13083	.17752
#1	4143.6	50309.	5689.8
#2	4159.9	50402.	5704.1

Sample Name: CCVL1171013 Acquired: 12/14/2011 0:58:39 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .00560	F .05799	F .00938	.10338	F .00609	F .00059	F .06818	F .11701	F .00290	F .00637	F .00632	F .00886	F .05959
Stddev	.00004	.00080	.00005	.00067	.00008	.00005	.00089	.00035	.00001	.00001	.00003	.00006	.00053
%RSD	.74843	1.3786	.55076	.64418	1.3392	8.6786	1.3059	.29768	.49432	.21385	.52926	.66523	.89342
#1	.00557	.05742	.00942	.10385	.00604	.00062	.06755	.11725	.00289	.00638	.00635	.00890	.05997
#2	.00563	.05856	.00934	.10291	.00615	.00055	.06881	.11676	.00291	.00636	.00630	.00882	.05922
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.01000	.10000	.01500		.01000	.00100	.10000	.20000	.00500	.01000	.01000	.01500	.10000
Range	-30.000%	-30.000%	-30.000%		-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.9868	.00879	F .12096	F .00603	.02017	.71516	F .02469	3.0079	F .00498	.05779	.00980	F .00965	.48631
Stddev	.0273	.00054	.00108	.00004	.00021	.00011	.00006	.0056	.00035	.00217	.00003	.00025	.00039
%RSD	1.3761	6.1978	.89425	.62423	1.0456	.01496	.25521	.18643	7.0557	3.7533	.32198	2.6250	.07952
#1	1.9674	.00918	.12020	.00601	.02032	.71524	.02464	3.0119	.00523	.05933	.00982	.00947	.48658
#2	2.0061	.00841	.12173	.00606	.02002	.71508	.02473	3.0040	.00473	.05626	.00978	.00983	.48604
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	None	Chk Pass	Chk Fail	Chk Pass
Value	3.0000		.20000	.01000			.04000		.00900			.01500	
Range	-30.000%		-30.000%	-30.000%			-30.000%		-30.000%			-30.000%	

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0407	.10371	F .00630	F .00840	.01040	.01094	F .03490	F .00543	F .01315	.01655
Stddev	.0008	.00043	.00004	.00156	.00022	.00185	.03155	.00003	.00044	.00107
%RSD	.07952	.41574	.67336	18.526	2.1004	16.917	90.405	.50670	3.3562	6.4426
#1	1.0413	.10341	.00627	.00950	.01055	.00963	.01259	.00545	.01346	.01730
#2	1.0401	.10402	.00633	.00730	.01024	.01225	.05720	.00541	.01284	.01580
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass
Value			.01000	.01500			.06000	.01000	.02000	
Range			-30.000%	-30.000%			-30.000%	-30.000%	-30.000%	

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	4260.5	51459.	5848.0
Stddev	17.7	33.	42.4
%RSD	.41608	.06384	.72432
#1	4273.1	51436.	5877.9
#2	4248.0	51482.	5818.0

Sample Name: 280-23628-c-1-c Acquired: 12/14/2011 1:01:02 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.01555**	**.00069**	**.97505**	**.02850**	**.00003**	**.00380**	**123.62**	**.00015**	**-.00006**
Stddev	.00035	.00255	.00079	.00345	.00001	.00003	.00371	.54	.00011	.00013
%RSD	374.24	16.385	115.35	.35405	.02765	102.16	97.646	.44078	75.693	209.27
#1	.00015	-.01735	.00013	.97749	.02849	.00004	.00118	124.01	.00007	-.00016
#2	-.00034	-.01375	.00125	.97261	.02850	.00001	.00643	123.24	.00023	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00115**	**.00212**	**.00378**	**3.6048**	**.08496**	**21.571**	**.00156**	**.00567**	**192.04**	**.00486**
Stddev	.00001	.00006	.00115	.0186	.00114	.012	.00001	.00020	.95	.00007
%RSD	.50387	2.8906	30.349	.51722	1.3448	.05455	.79544	3.5252	.49468	1.4332
#1	.00115	.00207	.00297	3.6180	.08415	21.563	.00156	.00553	192.71	.00491
#2	.00115	.00216	.00459	3.5916	.08577	21.580	.00155	.00581	191.37	.00481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01294**	**-.00007**	**104.26**	**-.00209**	**.00288**	**10.748**	**23.001**	**-.00106**	**1.3691**	**-.00072**
Stddev	.00057	.00010	.38	.00082	.00097	.027	.059	.00088	.0004	.00069
%RSD	4.4032	138.57	.36328	39.060	33.653	.25435	.25435	82.726	.02973	96.170
#1	.01254	-.00014	104.53	-.00151	.00220	10.768	23.043	-.00044	1.3688	-.00023
#2	.01334	.00000	104.00	-.00267	.00357	10.729	22.960	-.00168	1.3694	-.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00215**	**.00053**	**.00351**	**.00544**	**.00207**
Stddev	.00001	.00053	.01022	.00034	.00003	.00018
%RSD	.84761	24.666	1926.4	9.8000	.58663	8.7282
#1	.00101	.00253	-.00669	.00375	.00541	.00195
#2	.00102	.00178	.00775	.00327	.00546	.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3985.0**	**47077.**	**5756.0**
Stddev	7.1	41.	14.8
%RSD	.17692	.08662	.25634
#1	3980.0	47106.	5745.6
#2	3990.0	47048.	5766.5

Sample Name: 280-23628-c-2-c Acquired: 12/14/2011 1:03:24 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.02906**	**.00035**	**.70706**	**.03827**	**.00002**	**.00515**	**215.15**	**.00016**	**.00044**
Stddev	.00030	.00048	.00137	.00123	.00005	.00011	.00002	.55	.00022	.00013
%RSD	800.06	1.6606	395.80	.17431	.13672	647.61	.34871	.25675	136.07	30.556
#1	.00018	-.02872	.00132	.70793	.03830	.00009	.00516	215.54	.00001	.00054
#2	-.00025	-.02941	-.00062	.70618	.03823	-.00006	.00514	214.76	.00031	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**.00099**	**.00147**	**4.0903**	**.08384**	**27.615**	**.01404**	**.00260**	**127.63**	**.00292**
Stddev	.00015	.00005	.00088	.0313	.00182	.161	.00003	.00006	.29	.00005
%RSD	12.865	5.3722	59.971	.76400	2.1714	.58377	.24237	2.4581	.22791	1.8695
#1	.00131	.00095	.00210	4.0682	.08255	27.501	.01401	.00255	127.84	.00296
#2	.00109	.00103	.00085	4.1124	.08512	27.729	.01406	.00264	127.42	.00288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00481**	**-.00003**	**159.36**	**-.00580**	**-.00001**	**12.428**	**26.595**	**-.00130**	**2.0976**	**-.00133**
Stddev	.00174	.00006	.35	.00015	.00373	.043	.093	.00015	.0057	.00036
%RSD	36.188	190.87	.22083	2.5396	48118.	.34817	.34817	11.285	.27021	27.190
#1	.00358	.00001	159.12	-.00569	.00263	12.458	26.660	-.00119	2.0936	-.00158
#2	.00605	-.00008	159.61	-.00590	-.00265	12.397	26.529	-.00140	2.1016	-.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00140**	**.00259**	**-.02458**	**.00118**	**.00322**	**.00172**
Stddev	.00007	.00010	.01301	.00012	.00037	.00052
%RSD	5.1964	3.7969	52.931	9.8287	11.586	30.440
#1	.00145	.00266	-.03378	.00127	.00296	.00135
#2	.00135	.00252	-.01538	.00110	.00348	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3924.4**	**46529.**	**5652.9**
Stddev	6.3	183.	25.7
%RSD	.16069	.39276	.45381
#1	3928.8	46658.	5634.8
#2	3919.9	46399.	5671.1

Sample Name: 280-23628-c-3-c Acquired: 12/14/2011 1:05:46 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00723**	**.00128**	**.73827**	**.04911**	**.00003**	**.00379**	**123.53**	**.00015**	**.00022**
Stddev	.00030	.00136	.00075	.00024	.00028	.00002	.00358	.26	.00015	.00008
%RSD	1218.5	18.760	58.550	.03196	.56821	48.233	94.476	.20982	97.993	38.564
#1	.00024	.00819	.00075	.73811	.04891	.00002	.00632	123.34	.00005	.00028
#2	-.00019	.00627	.00182	.73844	.04930	.00004	.00126	123.71	.00025	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.00124**	**.02407**	**4.5043**	**.08087**	**18.512**	**.00427**	**.00420**	**154.01**	**.00244**
Stddev	.00006	.00034	.00149	.0630	.00381	.131	.00001	.00022	.36	.00023
%RSD	2.9853	27.186	6.2037	1.3996	4.7065	.70576	.20802	5.2477	.23301	9.5825
#1	.00199	.00100	.02302	4.4597	.07818	18.605	.00426	.00436	153.76	.00228
#2	.00207	.00148	.02513	4.5489	.08356	18.420	.00427	.00404	154.26	.00261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04034**	**-.00031**	**60.631**	**-.00383**	**.00579**	**13.172**	**28.187**	**-.00168**	**1.1863**	**-.00051**
Stddev	.00223	.00035	.165	.00112	.00026	.019	.041	.00010	.0086	.00004
%RSD	5.5239	112.63	.27272	29.146	4.4514	.14403	.14403	6.0994	.72764	8.3158
#1	.03877	-.00055	60.514	-.00462	.00597	13.158	28.159	-.00161	1.1802	-.00048
#2	.04192	-.00006	60.748	-.00304	.00560	13.185	28.216	-.00176	1.1924	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**.00297**	**-.00209**	**.00189**	**.00529**	**.00151**
Stddev	.00016	.00041	.00864	.00023	.00016	.00082
%RSD	9.2187	13.939	413.85	12.233	2.9669	54.071
#1	.00159	.00268	-.00819	.00206	.00540	.00209
#2	.00181	.00327	.00402	.00173	.00518	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3973.9**	**47021.**	**5677.5**
Stddev	1.6	71.	4.2
%RSD	.03943	.15101	.07468
#1	3975.0	46971.	5680.5
#2	3972.8	47071.	5674.5

Sample Name: 280-23628-c-4-c Acquired: 12/14/2011 1:08:09 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.00229**	**-.00149**	**.00278**	**-.00003**	**-.00001**	**.00539**	**.02505**	**.00005**	**.00035**
Stddev	.00040	.00016	.00185	.00004	.00009	.00002	.00067	.00383	.00009	.00007
%RSD	146.59	7.1437	124.58	1.5964	260.31	208.32	12.473	15.300	170.89	18.780
#1	-.00056	-.00217	-.00279	.00281	-.00010	.00000	.00586	.02776	.00012	.00031
#2	.00001	-.00240	-.00018	.00274	.00003	-.00002	.00491	.02234	-.00001	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00035**	**.00293**	**.13862**	**.00406**	**.00222**	**.00025**	**-.00026**	**.15201**	**.00041**
Stddev	.00000	.00005	.00059	.00063	.00068	.00116	.00002	.00013	.00463	.00021
%RSD	.67762	14.669	20.278	.45266	16.688	52.196	7.6430	50.204	3.0441	52.144
#1	.00034	.00031	.00251	.13818	.00454	.00304	.00027	-.00035	.14874	.00056
#2	.00035	.00038	.00335	.13906	.00358	.00140	.00024	-.00017	.15528	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**-.00173**	**.07493**	**-.00121**	**-.00008**	**.00484**	**.01035**	**-.00053**	**.00022**	**-.00019**
Stddev	.00012	.00023	.00496	.00153	.00086	.00293	.00626	.00099	.00006	.00059
%RSD	11.248	13.081	6.6133	125.73	1068.7	60.546	60.546	184.48	28.794	308.02
#1	-.00098	-.00157	.07844	-.00013	.00053	.00691	.01478	.00016	.00026	.00022
#2	-.00114	-.00189	.07143	-.00229	-.00069	.00277	.00592	-.00123	.00017	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00138**	**-.01981**	**.00016**	**.00359**	**.00228**
Stddev	.00006	.00109	.01159	.00032	.00007	.00040
%RSD	21.112	79.243	58.509	196.63	1.8328	17.434
#1	.00033	.00061	-.02800	.00039	.00355	.00200
#2	.00024	.00215	-.01161	-.00006	.00364	.00256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4235.7**	**51159.**	**5817.9**
Stddev	7.1	7.	19.8
%RSD	.16650	.01336	.34049
#1	4230.7	51164.	5831.9
#2	4240.7	51154.	5803.9

Sample Name: 280-23632-c-1-b Acquired: 12/14/2011 1:10:35 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00392**	**-.00066**	**.00192**	**.00014**	**-.00003**	**.00484**	**.04210**	**-.00004**	**.00036**
Stddev	.00006	.00103	.00178	.00004	.00004	.00004	.00081	.00001	.00008	.00008
%RSD	39.591	26.279	268.29	2.1629	25.788	137.58	16.734	.03243	183.82	21.447
#1	-.00018	-.00465	-.00192	.00189	.00017	.00000	.00541	.04211	.00001	.00041
#2	-.00010	-.00319	.00059	.00195	.00011	-.00006	.00427	.04209	-.00010	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00012**	**.00222**	**.11347**	**.00409**	**.00892**	**.00009**	**-.00029**	**.11897**	**.00008**
Stddev	.00004	.00015	.00134	.00327	.00037	.00374	.00000	.00024	.01009	.00007
%RSD	32.321	123.45	60.396	2.8844	8.9895	41.928	2.9310	82.523	8.4848	87.050
#1	.00017	-.00002	.00127	.11578	.00435	.01157	.00009	-.00046	.11183	.00013
#2	.00011	-.00023	.00317	.11115	.00383	.00628	.00009	-.00012	.12611	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00241**	**.00081**	**.06897**	**-.00193**	**-.00074**	**-.01293**	**-.02768**	**-.00044**	**.00020**	**.00086**
Stddev	.00007	.00054	.00405	.00257	.00212	.00374	.00801	.00003	.00008	.00128
%RSD	2.7958	66.457	5.8737	133.02	285.06	28.933	28.933	7.8727	41.365	149.66
#1	-.00246	.00043	.07183	-.00011	.00076	-.01558	-.03334	-.00046	.00014	-.00005
#2	-.00236	.00119	.06610	-.00374	-.00224	-.01029	-.02201	-.00041	.00026	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00094**	**-.01059**	**-.00052**	**.00264**	**.00066**
Stddev	.00022	.00097	.00283	.00005	.00005	.00046
%RSD	60.640	102.60	26.674	10.240	2.0551	69.509
#1	.00053	.00163	-.00860	-.00056	.00268	.00098
#2	.00021	.00026	-.01259	-.00048	.00260	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4227.6**	**51214.**	**5790.5**
Stddev	3.4	217.	28.0
%RSD	.08156	.42327	.48377
#1	4230.1	51367.	5810.3
#2	4225.2	51060.	5770.7

Sample Name: 280-23632-c-2-b Acquired: 12/14/2011 1:13:01 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99566 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.04165**	**-.00056**	**2.1411**	**.04960**	**-.00007**	**.00590**	**301.48**	**.00032**	**.00003**
Stddev	.00037	.00026	.00035	.0016	.00008	.00002	.00386	4.62	.00012	.00024
%RSD	279.94	.63527	61.665	.07604	.16306	33.613	65.416	1.5315	35.872	799.99
#1	-.00040	-.04184	-.00032	2.1399	.04954	-.00009	.00864	304.75	.00041	-.00014
#2	.00013	-.04146	-.00081	2.1422	.04966	-.00005	.00317	298.22	.00024	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.00155**	**.00578**	**6.9617**	**.19359**	**69.867**	**.00074**	**.00123**	**474.30**	**.00090**
Stddev	.00007	.00036	.00173	.0170	.00025	.035	.00004	.00007	1.16	.00008
%RSD	8.6407	23.051	29.955	.24477	.12984	.04997	4.7806	5.8438	.24510	9.3776
#1	.00076	.00181	.00455	6.9737	.19342	69.892	.00072	.00118	475.12	.00084
#2	.00086	.00130	.00700	6.9496	.19377	69.843	.00077	.00129	473.48	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00620**	**-.00073**	F **329.82**	**-.00487**	**.01392**	**11.884**	**25.432**	**-.00180**	**3.6722**	**-.00057**
Stddev	.00080	.00078	1.30	.00116	.00402	.055	.117	.00110	.0228	.00069
%RSD	12.973	107.62	.39418	23.721	28.848	.46198	.46198	61.330	.62061	120.27
#1	.00677	-.00017	328.90	-.00406	.01108	11.923	25.515	-.00258	3.6883	-.00106
#2	.00563	-.00128	330.74	-.00569	.01676	11.845	25.349	-.00102	3.6561	-.00009
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			200.00							
Low Limit			-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00183**	**.00072**	**-.01560**	**.00139**	**.00829**	**.00106**
Stddev	.00008	.00011	.03351	.00006	.00009	.00073
%RSD	4.4209	15.311	214.75	4.6444	1.0980	69.246
#1	.00177	.00064	.00809	.00135	.00836	.00158
#2	.00189	.00080	-.03930	.00144	.00823	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3774.3**	**44214.**	**5553.6**
Stddev	1.2	61.	17.1
%RSD	.03135	.13809	.30771
#1	3775.1	44170.	5541.5
#2	3773.4	44257.	5565.7

Sample Name: CCVH-1169743 Acquired: 12/14/2011 1:15:40 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00126**	**48.615**	**-.00055**	**.00430**	**.00034**	**-.00017**	**.98218**	**.00444**	**-.00058**	**.00085**	**.00054**	**-.00257**
Stddev	.00003	.105	.00094	.00069	.00020	.00006	.00291	.00010	.00003	.00005	.00009	.00004
%RSD	2.1975	.21599	171.67	16.039	58.842	31.660	.29612	2.1769	5.9553	6.2417	16.114	1.6724
#1	-.00124	48.541	-.00121	.00479	.00020	-.00014	.98424	.00437	-.00060	.00082	.00061	-.00260
#2	-.00128	48.690	.00012	.00381	.00048	-.00021	.98013	.00451	-.00055	.00089	.00048	-.00254
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None
Value												
Range												

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.747**	**.15245**	**.00664**	**.00128**	**-.00150**	**-.00183**	**248.64**	**.00076**	**-.00034**	**.00005**	W **4.6742**	**-.00274**
Stddev	.122	.01281	.00172	.00034	.00004	.00014	.57	.00004	.00010	.00033	.0091	.00081
%RSD	.25119	8.4026	25.905	26.420	2.6598	7.9064	.22930	5.8525	30.279	724.16	.19387	29.621
#1	48.660	.16151	.00542	.00104	-.00147	-.00173	248.24	.00079	-.00041	.00028	4.6678	-.00331
#2	48.833	.14339	.00786	.00152	-.00153	-.00194	249.05	.00073	-.00027	-.00019	4.6807	-.00217
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None	None	None	Chk Warn	None
Value											5.0000	
Range											-5.0000%	

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00506**	**.01614**	**.03454**	**.00126**	**.00053**	W **4.7455**	**.00253**	**-.00467**	**9.8226**	**-.00072**	**.00186**	**-.01688**
Stddev	.00227	.00739	.01581	.00040	.00001	.0130	.00011	.00068	.0022	.00047	.00007	.00122
%RSD	44.983	45.786	45.786	31.516	.99068	.27420	4.4933	14.459	.02194	65.067	3.6859	7.2474
#1	.00345	.02136	.04572	.00098	.00053	4.7363	.00261	-.00515	9.8241	-.00105	.00181	-.01602
#2	.00667	.01091	.02336	.00155	.00052	4.7547	.00245	-.00420	9.8211	-.00039	.00191	-.01775
Check ?	None	None	None	None	None	Chk Warn	None	None	Chk Pass	None	None	None
Value						5.0000						
Range						-5.0000%						

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4061.4**	**47933.**	**5717.8**
Stddev	.0	88.	51.6
%RSD	.00086	.18450	.90231
#1	4061.4	47995.	5754.3
#2	4061.4	47870.	5681.3

Sample Name: CCV-1169927 Acquired: 12/14/2011 1:18:00 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47650**	**.48492**	**.96238**	**.48790**	**.48756**	**.48728**	**.00148**	**4.8518**	**.49219**	**.49696**	**.49950**	**.48913**	**2.3537**
Stddev	.00006	.00245	.00201	.00155	.00029	.00057	.00229	.0040	.00032	.00129	.00056	.00109	.0074
%RSD	.01234	.50599	.20879	.31742	.05916	.11730	154.86	.08353	.06575	.25866	.11292	.22378	.31592
#1	.47654	.48665	.96095	.48681	.48776	.48687	-.00014	4.8490	.49196	.49605	.49910	.48990	2.3590
#2	.47646	.48318	.96380	.48900	.48735	.48768	.00310	4.8547	.49242	.49787	.49990	.48835	2.3485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.419**	**1.0221**	**19.173**	**.47568**	**.49520**	**5.1025**	**.49617**	**.96839**	**.96317**	**.05212**	**.98101**	**.94377**	**4.7716**
Stddev	.041	.0014	.006	.00050	.00007	.0078	.00030	.00441	.00012	.00086	.00229	.00208	.0216
%RSD	.08168	.13947	.03356	.10412	.01493	.15212	.06115	.45541	.01232	1.6486	.23299	.22033	.45270
#1	50.448	1.0231	19.178	.47603	.49526	5.1080	.49638	.96527	.96326	.05273	.97940	.94230	4.7563
#2	50.389	1.0211	19.169	.47533	.49515	5.0970	.49595	.97150	.96309	.05151	.98263	.94524	4.7868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.211**	**.99088**	**.50470**	**.00149**	**.49424**	**.99756**	**-.01474**	**.47714**	**.47402**	**.47939**
Stddev	.046	.00147	.00024	.00009	.00008	.00215	.00255	.00072	.00200	.00240
%RSD	.45270	.14852	.04839	5.9754	.01612	.21540	17.300	.15111	.42219	.50008
#1	10.178	.98984	.50453	.00155	.49418	.99604	-.01654	.47765	.47260	.47769
#2	10.244	.99192	.50487	.00142	.49429	.99908	-.01294	.47663	.47543	.48108
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4147.8**	**49462.**	**5789.9**
Stddev	6.4	19.	30.3
%RSD	.15411	.03790	.52360
#1	4152.3	49475.	5768.5
#2	4143.3	49449.	5811.4

Sample Name: CCB Acquired: 12/14/2011 1:20:12 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00119**	**-.00103**	W **.00176**	**-.00002**	**.00002**	**-.00191**	**-.00029**	**.00004**	**.00016**	**.00019**	**-.00059**
Stddev	.00051	.00170	.00162	.00029	.00006	.00004	.00020	.00085	.00009	.00034	.00000	.00019
%RSD	1590.6	143.31	157.51	16.722	387.25	147.79	10.705	290.70	246.46	211.21	.18618	32.117
#1	-.00033	.00002	-.00217	.00197	-.00006	.00005	-.00176	-.00090	.00010	-.00008	.00019	-.00072
#2	.00040	-.00239	.00012	.00155	.00003	.00000	-.00205	.00031	-.00003	.00040	.00019	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00156								
Low Limit				-.00156								

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.10799**	W **.00308**	**.00015**	**.00001**	**.00058**	W **.12661**	**-.00029**	**-.00147**	**.00067**	**.05784**	**.00034**
Stddev	.00088	.00274	.00015	.00222	.00001	.00024	.00366	.00012	.00062	.00037	.01008	.00100
%RSD	161.24	2.5397	5.0293	1452.2	98.502	41.468	2.8872	41.842	42.352	54.274	17.427	295.57
#1	.00117	.10993	.00297	.00173	.00002	.00041	.12919	-.00021	-.00190	.00093	.06497	-.00037
#2	-.00008	.10605	.00319	-.00142	.00000	.00075	.12402	-.00038	-.00103	.00042	.05072	.00104
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00261				.09160					
Low Limit			-.00261				-.09160					

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**-.00053**	**-.00113**	**.00038**	**.00005**	**-.00063**	**.00032**	**-.00050**	**-.00090**	**.00012**	**.00155**	**.00180**
Stddev	.00033	.00522	.01118	.00049	.00000	.00119	.00015	.00019	.03341	.00014	.00033	.00074
%RSD	48.161	985.76	985.76	128.62	.17713	188.24	46.448	38.340	3726.7	124.08	21.162	41.391
#1	-.00045	.00316	.00677	.00003	.00005	-.00147	.00043	-.00036	.02273	.00001	.00132	.00232
#2	-.00091	-.00422	-.00904	.00073	.00005	.00021	.00022	-.00063	-.02452	.00022	.00178	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4145.9**	**50571.**	**5729.2**
Stddev	7.7	178.	23.6
%RSD	.18461	.35291	.41222
#1	4140.5	50697.	5745.9
#2	4151.4	50445.	5712.6

Sample Name: CCVL1171013 Acquired: 12/14/2011 1:22:38 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .00613	F .05596	F .00973	.10187	F .00584	F .00061	F .06750	F .11636	F .00293	F .00647	F .00636	F .00856
Stddev	.00034	.00180	.00216	.00052	.00003	.00003	.00011	.00005	.00018	.00010	.00019	.00016
%RSD	5.5300	3.2253	22.222	.51152	.58379	4.7645	.16285	.04587	6.2207	1.4852	3.0155	1.8961
#1	.00589	.05724	.01126	.10224	.00587	.00059	.06758	.11632	.00280	.00640	.00622	.00868
#2	.00637	.05468	.00820	.10151	.00582	.00063	.06742	.11640	.00306	.00654	.00650	.00845
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.01000	.10000	.01500		.01000	.00100	.10000	.20000	.00500	.01000	.01000	.01500
Range	-30.000%	-30.000%	-30.000%		-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .05580	F 1.9596	.00923	F .12156	F .00602	.02032	.72148	F .02434	2.9814	F .00527	.05005	.00784
Stddev	.00144	.0288	.00033	.00075	.00010	.00015	.00300	.00015	.0011	.00067	.00044	.00052
%RSD	2.5849	1.4672	3.5753	.61811	1.6008	.75963	.41575	.60175	.03613	12.662	.88790	6.5737
#1	.05682	1.9393	.00900	.12102	.00609	.02022	.72360	.02423	2.9806	.00480	.04974	.00748
#2	.05478	1.9800	.00946	.12209	.00596	.02043	.71936	.02444	2.9821	.00574	.05037	.00821
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	None	Chk Pass
Value	.10000	3.0000		.20000	.01000			.04000		.00900		
Range	-30.000%	-30.000%		-30.000%	-30.000%			-30.000%		-30.000%		

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .00919	.47764	1.0222	.10386	F .00616	F .00987	.01030	.01061	F -.00776	F .00537	F .01324	.01614
Stddev	.00418	.00561	.0120	.00063	.00004	.00087	.00009	.00140	.00101	.00016	.00013	.00112
%RSD	45.421	1.1739	1.1739	.60336	.68545	8.8349	.88261	13.154	13.050	2.9796	.99716	6.9468
#1	.00624	.47368	1.0137	.10430	.00613	.01049	.01024	.01160	-.00848	.00548	.01333	.01535
#2	.01215	.48161	1.0306	.10341	.00618	.00925	.01037	.00962	-.00704	.00526	.01314	.01693
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass
Value	.01500				.01000	.01500			.06000	.01000	.02000	
Range	-30.000%				-30.000%	-30.000%			-30.000%	-30.000%	-30.000%	

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	4290.8	51450.	5889.8
Stddev	8.7	38.	22.3
%RSD	.20364	.07482	.37779
#1	4297.0	51477.	5905.6
#2	4284.6	51423.	5874.1

Sample Name: mb 280-99567/1-a Acquired: 12/14/2011 1:25:02 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00295**	**-.00029**	**-.00006**	**.00007**	**.00004**	**.00600**	**.00192**	**-.00002**	**.00032**
Stddev	.00030	.00365	.00014	.00003	.00018	.00000	.00198	.00183	.00002	.00005
%RSD	518.72	123.76	48.153	51.534	257.34	.17301	32.991	95.401	100.05	15.424
#1	-.00016	-.00554	-.00019	-.00008	-.00006	.00004	.00460	.00322	-.00001	.00036
#2	.00027	-.00037	-.00039	-.00004	.00019	.00004	.00740	.00062	-.00004	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00190**	**.00205**	**.06725**	**.00176**	**.00116**	**.00006**	**-.00018**	**.08340**	**-.00005**
Stddev	.00005	.00012	.00083	.04516	.00100	.00138	.00002	.00002	.00130	.00008
%RSD	63.096	6.3490	40.695	67.159	56.553	118.88	30.557	10.433	1.5645	162.54
#1	.00011	.00181	.00146	.03531	.00106	.00214	.00007	-.00017	.08432	-.00011
#2	.00004	.00199	.00263	.09919	.00247	.00018	.00005	-.00019	.08248	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00172**	**.00017**	F **.05111**	**-.00172**	**.00045**	F **-.01772**	F **-.03792**	**-.00099**	**.00004**	**-.00042**
Stddev	.00086	.00055	.00653	.00053	.00007	.00144	.00308	.00037	.00006	.00027
%RSD	49.929	320.35	12.767	31.031	15.723	8.1331	8.1331	37.032	156.83	64.671
#1	-.00232	-.00022	.04650	-.00210	.00040	-.01670	-.03574	-.00073	.00000	-.00023
#2	-.00111	.00056	.05573	-.00134	.00050	-.01874	-.04010	-.00125	.00009	-.00061
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			.01000			.01000	.01000			
Low Limit			-.01000			-.01000	-.01000			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00188**	**-.00228**	**-.00017**	**.00330**	**.00224**
Stddev	.00012	.00022	.03225	.00005	.00022	.00024
%RSD	49.640	11.476	1414.3	31.481	6.7909	10.831
#1	.00016	.00203	-.02508	-.00021	.00345	.00207
#2	.00033	.00172	.02052	-.00013	.00314	.00241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4263.3**	**51395.**	**5863.1**
Stddev	1.8	289.	11.3
%RSD	.04292	.56177	.19275
#1	4262.0	51599.	5855.1
#2	4264.6	51191.	5871.1

Sample Name: lcs 280-99567/2-a Acquired: 12/14/2011 1:27:29 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04916**	**1.8998**	**.99760**	**1.0126**	**1.9385**	**.04856**	**2.1118**	**47.337**	**.10053**	**.48895**
Stddev	.00009	.0127	.00285	.0019	.0071	.00003	.0011	.014	.00009	.00097
%RSD	.19173	.67069	.28535	.19267	.36677	.05747	.05392	.02974	.09141	.19812
#1	.04922	1.8908	.99559	1.0112	1.9335	.04854	2.1110	47.327	.10047	.48826
#2	.04909	1.9088	.99961	1.0140	1.9435	.04858	2.1126	47.347	.10060	.48963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19992**	**.24652**	**.93078**	**50.764**	**1.0162**	**49.172**	**.47702**	**.98510**	**53.172**	**.49661**
Stddev	.00103	.00062	.00083	.185	.0048	.012	.00018	.00397	.633	.00097
%RSD	.51349	.24965	.08892	.36447	.47397	.02377	.03786	.40281	1.1905	.19548
#1	.19919	.24608	.93137	50.633	1.0128	49.180	.47715	.98229	52.725	.49593
#2	.20064	.24696	.93020	50.894	1.0196	49.163	.47690	.98790	53.620	.49730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.157**	**.48015**	**.03966**	**.49527**	**1.9608**	**9.5308**	F **20.396**	**1.9810**	**1.0163**	**1.0044**
Stddev	.018	.00011	.00641	.00214	.0087	.0249	.053	.0045	.0032	.0013
%RSD	.17324	.02189	16.164	.43269	.44517	.26134	.26134	.22625	.31741	.12450
#1	10.144	.48022	.03513	.49376	1.9546	9.5132	20.358	1.9778	1.0140	1.0053
#2	10.169	.48007	.04420	.49679	1.9669	9.5484	20.434	1.9842	1.0186	1.0035
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							24.610			
Low Limit							20.100			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0022**	**1.9992**	**2.0844**	**.47629**	**.47524**	**.47762**
Stddev	.0008	.0106	.0084	.00178	.00047	.00212
%RSD	.08029	.53103	.40151	.37455	.09972	.44422
#1	1.0028	1.9917	2.0784	.47503	.47490	.47612
#2	1.0016	2.0067	2.0903	.47755	.47557	.47912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4088.9**	**48634.**	**5850.3**
Stddev	23.4	216.	16.0
%RSD	.57265	.44507	.27315
#1	4105.4	48787.	5861.6
#2	4072.3	48481.	5839.0

Sample Name: 280-23668-c-1-a Acquired: 12/14/2011 1:29:38 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00054**	**-.00196**	**.01305**	**.01102**	**.00002**	**.00533**	**1.0229**	**.00000**	**.00030**
Stddev	.00004	.00215	.00032	.00081	.00018	.00003	.00087	.0034	.0001	.00013
%RSD	20.120	398.31	16.326	6.1844	1.5906	147.52	16.297	.33020	3601.6	41.581
#1	.00015	-.00206	-.00218	.01248	.01090	.00004	.00594	1.0205	.00010	.00039
#2	.00020	.00098	-.00173	.01362	.01115	.00000	.00471	1.0253	-.00010	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00004**	**.02083**	**1.0979**	**.00350**	**.39845**	**.00910**	**.00076**	**3.1321**	**.00119**
Stddev	.00004	.00001	.00166	.0018	.00175	.00392	.00004	.00035	.0071	.00003
%RSD	15.241	15.354	7.9506	.16205	49.971	.98456	.48503	46.368	.22540	2.9149
#1	.00031	.00004	.02200	1.0966	.00474	.40123	.00907	.00051	3.1271	.00116
#2	.00025	.00005	.01966	1.0991	.00226	.39568	.00913	.00101	3.1371	.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00506**	**.00000**	**.16663**	**-.00052**	**-.00017**	**4.7706**	**10.209**	**-.00001**	**.00621**	**.00059**
Stddev	.00026	.00057	.00499	.00083	.00073	.0114	.024	.00028	.00010	.00067
%RSD	5.0527	96329.	2.9963	161.55	419.59	.23815	.23815	3601.0	1.5761	113.97
#1	.00524	-.00040	.16310	-.00111	.00034	4.7787	10.226	.00019	.00614	.00106
#2	.00488	.00041	.17016	.00007	-.00069	4.7626	10.192	-.00020	.00628	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00212**	**-.01897**	**-.00004**	**.00500**	**.00193**
Stddev	.00027	.00064	.01173	.00003	.00024	.00026
%RSD	47.486	30.010	61.850	69.510	4.8375	13.296
#1	.00075	.00167	-.01067	-.00006	.00517	.00175
#2	.00037	.00258	-.02726	-.00002	.00483	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4255.6**	**51321.**	**5886.4**
Stddev	20.7	301.	37.5
%RSD	.48754	.58639	.63627
#1	4270.2	51534.	5859.9
#2	4240.9	51108.	5912.9

Sample Name: 280-23668-c-1-aSD@5 Acquired: 12/14/2011 1:32:02 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00039**	**.00042**	**.00342**	**.00212**	**.00003**	**.00200**	**.21051**	**.00008**	**.00028**
Stddev	.00065	.00083	.00150	.00016	.00009	.00000	.00058	.00199	.00003	.00007
%RSD	398.38	216.11	360.48	4.7618	4.3015	15.454	28.865	.94421	32.193	26.331
#1	.00030	-.00097	-.00064	.00354	.00205	.00003	.00241	.20910	.00006	.00023
#2	-.00062	.00020	.00147	.00331	.00218	.00003	.00159	.21191	.00010	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00042**	**.00727**	**.28555**	**.00244**	**.07850**	**.00193**	**.00017**	**.70749**	**.00019**
Stddev	.00003	.00004	.00056	.03563	.00155	.00121	.00000	.00017	.01477	.00057
%RSD	48.148	9.5098	7.7663	12.479	63.302	1.5397	.17970	99.003	2.0877	305.00
#1	.00004	-.00040	.00767	.31075	.00354	.07764	.00194	.00029	.69705	.00059
#2	.00009	-.00045	.00687	.26036	.00135	.07935	.00193	.00005	.71793	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00040**	**.07207**	**.00020**	**.00108**	**.95062**	**2.0343**	**.00002**	**.00134**	**.00090**
Stddev	.00145	.00049	.00290	.00061	.00212	.00301	.0064	.00008	.00003	.00102
%RSD	1360.3	122.73	4.0300	302.80	196.08	.31651	.31651	489.24	2.5240	113.54
#1	.00113	.00005	.07002	-.00023	-.00042	.95274	2.0389	-.00004	.00131	.00162
#2	-.00092	.00074	.07413	.00064	.00258	.94849	2.0298	.00008	.00136	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00001**	**-.02323**	**.00012**	**.00478**	**.00089**
Stddev	.00000	.00101	.00941	.00019	.00048	.00059
%RSD	.16700	13644.	40.524	156.16	10.065	66.311
#1	.00039	.00072	-.01657	-.00001	.00512	.00047
#2	.00039	-.00070	-.02988	.00025	.00444	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4194.8**	**50617.**	**5778.0**
Stddev	17.6	139.	24.9
%RSD	.41950	.27538	.43013
#1	4182.4	50715.	5795.6
#2	4207.3	50518.	5760.5

Sample Name: 280-23668-c-1-b ms Acquired: 12/14/2011 1:34:28 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05008**	**1.8935**	**.99448**	**1.0334**	**1.9751**	**.04884**	F **2.1047**	**48.447**	**.10037**	**.48608**
Stddev	.00001	.0019	.00467	.0023	.0034	.00027	.0084	.070	.00030	.00100
%RSD	.01975	.10311	.46927	.22087	.16976	.56261	.39987	.14519	.29405	.20541
#1	.05007	1.8949	.99778	1.0350	1.9728	.04865	2.1107	48.497	.10058	.48678
#2	.05008	1.8921	.99118	1.0318	1.9775	.04904	2.0988	48.398	.10017	.48537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19842**	**.24629**	**.95379**	**51.822**	**1.0236**	**48.978**	**.48553**	**.98632**	**56.420**	**.49355**
Stddev	.00112	.00161	.00714	.059	.0006	.580	.00469	.00175	.055	.00105
%RSD	.56371	.65265	.74857	.11365	.05731	1.1836	.96607	.17718	.09718	.21277
#1	.19921	.24743	.95884	51.864	1.0232	49.388	.48885	.98756	56.382	.49429
#2	.19763	.24515	.94874	51.781	1.0240	48.568	.48222	.98509	56.459	.49281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **10.107**	**.48379**	**.17132**	**.50055**	**1.9657**	**14.452**	**30.928**	**1.9807**	**1.0242**	**.99876**
Stddev	.027	.00310	.00759	.00049	.0128	.003	.007	.0087	.0004	.00764
%RSD	.27039	.64122	4.4299	.09871	.64914	.02361	.02361	.44097	.03410	.76542
#1	10.126	.48599	.16595	.50090	1.9747	14.450	30.923	1.9869	1.0239	1.0042
#2	10.087	.48160	.17668	.50020	1.9567	14.455	30.933	1.9746	1.0244	.99335
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0011**	**1.9873**	**2.0872**	**.47652**	**.47281**	**.48882**
Stddev	.0118	.0086	.0065	.00347	.00502	.00051
%RSD	1.1747	.43496	.31012	.72918	1.0613	.10486
#1	1.0094	1.9934	2.0918	.47898	.47636	.48918
#2	.99275	1.9812	2.0826	.47406	.46927	.48846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4092.2**	**48933.**	**5872.6**
Stddev	.6	272.	15.6
%RSD	.01507	.55659	.26571
#1	4092.6	48740.	5861.6
#2	4091.8	49125.	5883.6

Sample Name: 280-23668-c-1-c msd Acquired: 12/14/2011 1:36:36 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05059**	**1.9150**	**1.0100**	**1.0410**	**1.9679**	**.04944**	F **2.1442**	**48.682**	**.10208**	**.49529**
Stddev	.00025	.0047	.0043	.0009	.0129	.00005	.0019	.081	.00019	.00071
%RSD	.48909	.24551	.42372	.08505	.65562	.10987	.08870	.16595	.18607	.14377
#1	.05077	1.9117	1.0131	1.0404	1.9588	.04947	2.1429	48.625	.10195	.49579
#2	.05042	1.9183	1.0070	1.0417	1.9770	.04940	2.1455	48.739	.10222	.49479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20211**	**.25205**	**.95762**	**51.933**	**1.0257**	**49.910**	**.49284**	**.99815**	**56.758**	**.50389**
Stddev	.00027	.00071	.00254	.216	.0085	.006	.00014	.00084	.458	.00005
%RSD	.13199	.28104	.26542	.41615	.83094	.01190	.02941	.08369	.80708	.00935
#1	.20230	.25255	.95941	51.780	1.0197	49.906	.49294	.99756	56.434	.50386
#2	.20192	.25154	.95582	52.086	1.0317	49.914	.49273	.99874	57.082	.50392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **10.281**	**.49121**	**.15700**	**.50304**	**1.9935**	**14.371**	**30.754**	W **2.0066**	**1.0296**	**1.0148**
Stddev	.009	.00139	.00044	.00247	.0035	.054	.115	.0010	.0053	.0027
%RSD	.08660	.28341	.28323	.49082	.17429	.37456	.37456	.05103	.51384	.26527
#1	10.275	.49219	.15732	.50479	1.9910	14.333	30.673	2.0059	1.0258	1.0167
#2	10.287	.49022	.15669	.50129	1.9959	14.409	30.836	2.0073	1.0333	1.0129
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit	2.0000							2.0000		
Low Limit	-1.0000							-.05000		

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0175**	**2.0154**	**2.1221**	**.48347**	**.48449**	**.48240**
Stddev	.0004	.0060	.0112	.00153	.00077	.00113
%RSD	.04168	.29728	.52781	.31721	.15919	.23473
#1	1.0172	2.0111	2.1142	.48455	.48395	.48320
#2	1.0178	2.0196	2.1300	.48238	.48504	.48160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4068.3**	**48419.**	**5883.3**
Stddev	4.9	95.	19.2
%RSD	.12038	.19558	.32594
#1	4071.7	48486.	5896.9
#2	4064.8	48352.	5869.7

Sample Name: 280-23668-c-2-a Acquired: 12/14/2011 1:38:44 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**-.00271**	**-.00050**	**.01254**	**.04303**	**.00010**	**.00339**	**.70894**	**.00005**	**.00078**
Stddev	.00007	.00202	.00059	.00022	.00022	.00005	.00018	.00198	.00013	.00004
%RSD	16.759	74.409	117.87	1.7684	.50127	47.290	5.3981	.27990	261.82	5.1967
#1	-.00049	-.00414	-.00091	.01238	.04318	.00013	.00326	.70753	.00014	.00081
#2	-.00038	-.00128	-.00008	.01269	.04287	.00006	.00352	.71034	-.00004	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00295**	**-.00005**	**.00709**	**1.6113**	**.00384**	**.64812**	**.00193**	**.00086**	**4.1800**	**.00133**
Stddev	.00002	.00010	.00036	.0106	.00073	.00093	.00003	.00002	.0016	.00008
%RSD	.61570	206.42	5.0588	.65947	18.927	.14425	1.6157	1.8472	.03753	6.2833
#1	.00296	.00002	.00734	1.6188	.00435	.64878	.00195	.00085	4.1811	.00139
#2	.00294	-.00012	.00684	1.6038	.00332	.64746	.00190	.00087	4.1789	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00052**	**.22879**	**-.00073**	**.00135**	**10.162**	**21.748**	**.00040**	**.01068**	**.00064**
Stddev	.00036	.00028	.00055	.00086	.00323	.025	.054	.00019	.00005	.00028
%RSD	47.446	54.331	.24045	117.37	238.76	.24778	.24778	48.225	.46837	44.126
#1	.00100	.00072	.22840	-.00012	.00364	10.180	21.786	.00054	.01072	.00044
#2	.00050	.00032	.22918	-.00133	-.00093	10.145	21.709	.00026	.01065	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00160**	**-.02327**	**.00009**	**.00532**	**.00121**
Stddev	.00014	.00082	.02123	.00009	.00021	.00017
%RSD	24.904	51.263	91.234	92.415	3.8641	14.346
#1	.00068	.00218	-.03829	.00015	.00547	.00109
#2	.00048	.00102	-.00826	.00003	.00518	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4296.5**	**51385.**	**5977.5**
Stddev	3.4	15.	13.0
%RSD	.07920	.02985	.21735
#1	4294.1	51396.	5968.3
#2	4298.9	51374.	5986.6

Sample Name: 280-23668-c-3-a Acquired: 12/14/2011 1:41:08 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00824**	**.00139**	**.01089**	**.01425**	**.00009**	**.00454**	**.43399**	**.00004**	**.00041**
Stddev	.00003	.00063	.00036	.00050	.00033	.00009	.00116	.00106	.00004	.00006
%RSD	4.0729	7.6422	25.898	4.6236	2.3082	93.625	25.614	.24390	86.084	13.985
#1	.00068	.00779	.00165	.01125	.01448	.00003	.00371	.43474	.00002	.00045
#2	.00072	.00868	.00114	.01054	.01401	.00015	.00536	.43324	.00007	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00001**	**.00643**	**1.2569**	**.00416**	**.56384**	**.00947**	**.00005**	**3.1931**	**.00053**
Stddev	.00003	.00006	.00021	.0020	.00069	.00322	.00012	.00014	.0028	.00018
%RSD	8.4872	585.59	3.3437	.16254	16.634	.57028	1.2607	282.70	.08782	33.433
#1	.00042	-.00005	.00628	1.2554	.00367	.56157	.00938	-.00005	3.1911	.00040
#2	.00037	.00003	.00658	1.2583	.00465	.56611	.00955	.00015	3.1951	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.00081**	**.16943**	**-.00192**	**-.00033**	**4.0771**	**8.7250**	**-.00049**	**.00569**	**-.00029**
Stddev	.00077	.00088	.00125	.00119	.00154	.0196	.0419	.00046	.00000	.00049
%RSD	79.173	108.17	.73866	61.992	467.89	.47988	.47988	94.941	.08572	169.54
#1	-.00151	.00143	.17032	-.00108	-.00142	4.0633	8.6954	-.00016	.00569	.00006
#2	-.00043	.00019	.16855	-.00277	.00076	4.0909	8.7546	-.00081	.00569	-.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00176**	**-.01522**	**-.00019**	**.00411**	**.00124**
Stddev	.00005	.00068	.02073	.00005	.00011	.00047
%RSD	23.256	38.717	136.21	25.589	2.7006	37.872
#1	.00024	.00128	-.00056	-.00022	.00419	.00158
#2	.00017	.00224	-.02988	-.00016	.00403	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4310.1**	**51585.**	**5910.4**
Stddev	8.0	349.	25.9
%RSD	.18639	.67723	.43812
#1	4304.4	51832.	5928.7
#2	4315.8	51338.	5892.1

Sample Name: 280-23668-c-4-a Acquired: 12/14/2011 1:43:32 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00408**	**-.00014**	**.04262**	**.19511**	**.00006**	**.00497**	**5.6772**	**-.00004**	**.02126**
Stddev	.00045	.00218	.00100	.00071	.00029	.00000	.00008	.0045	.00006	.00012
%RSD	190.36	53.518	741.56	1.6693	.14715	6.4502	1.7081	.07853	153.48	.54583
#1	.00008	.00253	-.00085	.04313	.19531	.00007	.00503	5.6741	-.00008	.02118
#2	-.00055	.00562	.00057	.04212	.19491	.00006	.00491	5.6804	.00000	.02134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00077**	**2.6419**	**2.1528**	**.00294**	**5.0282**	**2.8760**	**-.00025**	**58.548**	**.00095**
Stddev	.00004	.00003	.0058	.0271	.00147	.0179	.0012	.00007	.061	.00033
%RSD	13.763	4.2780	.22060	1.2575	49.988	.35648	.04135	28.658	.10502	34.725
#1	.00035	.00079	2.6378	2.1337	.00190	5.0155	2.8752	-.00030	58.504	.00072
#2	.00029	.00074	2.6460	2.1720	.00398	5.0409	2.8768	-.00020	58.591	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00562**	**.00048**	**1.1919**	**-.00318**	**.00058**	**3.1407**	**6.7211**	**-.00129**	**.06289**	**-.00045**
Stddev	.00101	.00011	.0117	.00072	.00478	.0008	.0017	.00012	.00023	.00064
%RSD	18.016	22.610	.98179	22.731	825.53	.02590	.02590	9.4031	.35848	142.22
#1	.00491	.00056	1.1836	-.00267	-.00280	3.1413	6.7223	-.00120	.06273	.00000
#2	.00634	.00041	1.2001	-.00369	.00396	3.1401	6.7198	-.00137	.06305	-.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.00318**	**-.02769**	**-.00036**	**.00528**	**.00172**
Stddev	.00006	.00013	.00720	.00052	.00013	.00052
%RSD	12.016	4.0143	25.998	143.61	2.4157	30.423
#1	.00054	.00327	-.03278	.00001	.00537	.00135
#2	.00046	.00309	-.02260	-.00072	.00519	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4214.1**	**50044.**	**5922.2**
Stddev	.1	381.	23.8
%RSD	.00278	.76099	.40236
#1	4214.0	50314.	5939.0
#2	4214.2	49775.	5905.3

Sample Name: 280-23668-c-5-a Acquired: 12/14/2011 1:46:01 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00601**	**-.00191**	**.00982**	**.01595**	**.00014**	**.00513**	**.19779**	**.00002**	**.00072**
Stddev	.00015	.00194	.00063	.00047	.00024	.00007	.00100	.00544	.00015	.00003
%RSD	79.773	32.244	33.315	4.7962	1.4871	51.328	19.485	2.7512	762.26	4.8493
#1	-.00029	.00738	-.00235	.00948	.01612	.00020	.00442	.20164	-.00008	.00074
#2	-.00008	.00464	-.00146	.01015	.01579	.00009	.00584	.19394	.00012	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00006**	**.00762**	**.88898**	**.00409**	**.45631**	**.00928**	**-.00024**	**2.9560**	**.00136**
Stddev	.00003	.00013	.00046	.00223	.00018	.00142	.00006	.00005	.0077	.00002
%RSD	14.931	208.92	6.0067	.25079	4.5126	.31028	.62252	19.188	.26103	1.2557
#1	.00016	.00015	.00794	.88740	.00422	.45531	.00924	-.00021	2.9615	.00138
#2	.00019	-.00003	.00730	.89055	.00396	.45731	.00932	-.00028	2.9506	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00026**	**.22458**	**-.00061**	**-.00276**	**4.1175**	**8.8115**	**-.00048**	**.00381**	**.00060**
Stddev	.00140	.00092	.00282	.00031	.00169	.0186	.0397	.00012	.00020	.00086
%RSD	1123.9	361.07	1.2549	51.125	61.219	.45067	.45067	24.135	5.2935	141.66
#1	-.00111	.00091	.22657	-.00082	-.00396	4.1044	8.7834	-.00040	.00396	.00000
#2	.00086	-.00040	.22258	-.00039	-.00157	4.1306	8.8396	-.00056	.00367	.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00173**	**-.01288**	**.00010**	**.00457**	**.00135**
Stddev	.00001	.00052	.00031	.00008	.00008	.00104
%RSD	7.6181	29.997	2.4118	82.803	1.8279	77.112
#1	.00012	.00136	-.01266	.00015	.00463	.00209
#2	.00013	.00209	-.01310	.00004	.00452	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4301.6**	**51735.**	**5948.8**
Stddev	6.6	285.	35.0
%RSD	.15348	.55142	.58829
#1	4306.3	51937.	5973.6
#2	4297.0	51534.	5924.1

Sample Name: CCVH-1169743 Acquired: 12/14/2011 1:48:25 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00145**	**48.500**	**-.00227**	**.00170**	**.00039**	**-.00018**	**.98028**	**-.00454**	**-.00079**	**.00103**	**.00037**	**-.00270**
Stddev	.00042	.193	.00108	.00058	.00020	.00003	.00548	.00029	.00015	.00022	.00019	.00011
%RSD	29.107	.39753	47.725	33.823	51.358	15.412	.55935	6.3800	19.051	21.289	52.640	3.9315
#1	-.00115	48.363	-.00303	.00129	.00054	-.00020	.98415	-.00475	-.00068	.00119	.00051	-.00262
#2	-.00175	48.636	-.00150	.00211	.00025	-.00016	.97640	-.00434	-.00089	.00088	.00023	-.00277
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None
Value												
Range												

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.772**	**.11273**	**.00562**	**-.00114**	**-.00156**	**-.00175**	**248.40**	**.00081**	**.00154**	**-.00149**	W **4.5861**	**-.00320**
Stddev	.509	.00726	.00143	.00159	.00002	.00002	1.14	.00018	.00031	.00028	.0169	.00020
%RSD	1.0435	6.4371	25.432	139.13	1.3121	1.3438	.46077	21.964	20.105	19.054	.36834	6.2475
#1	48.412	.11786	.00461	-.00227	-.00155	-.00174	247.59	.00068	.00176	-.00169	4.5980	-.00306
#2	49.132	.10760	.00663	-.00002	-.00158	-.00177	249.21	.00093	.00132	-.00129	4.5741	-.00334
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None	None	None	Chk Warn	None
Value											5.0000	
Range											-5.0000%	

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00489**	**.01638**	**.03505**	**.00235**	**.00038**	W **4.7490**	**.00229**	**-.00309**	**9.8120**	**-.00109**	**.00139**	**-.01651**
Stddev	.00481	.00650	.01391	.00068	.00001	.0092	.00003	.00097	.0068	.00013	.00005	.00075
%RSD	98.251	39.685	39.685	29.013	3.4991	.19332	1.1533	31.486	.06911	11.705	3.9048	4.5583
#1	.00829	.02097	.04488	.00187	.00037	4.7425	.00227	-.00377	9.8072	-.00100	.00135	-.01704
#2	.00149	.01178	.02521	.00283	.00039	4.7555	.00230	-.00240	9.8168	-.00118	.00143	-.01598
Check ?	None	None	None	None	None	Chk Warn	None	None	Chk Pass	None	None	None
Value						5.0000						
Range						-5.0000%						

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4095.0**	**48253.**	**5756.5**
Stddev	8.8	115.	21.7
%RSD	.21410	.23746	.37710
#1	4088.8	48334.	5771.8
#2	4101.2	48171.	5741.1

Sample Name: CCV-1169927 Acquired: 12/14/2011 1:50:45 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47498**	**.48562**	**.96406**	**.48654**	**.48150**	**.48230**	**.00264**	**4.8224**	**.49025**	**.49509**	**.49754**	**.48758**	**2.3669**
Stddev	.00186	.00198	.00092	.00035	.00340	.00378	.00168	.0256	.00001	.00013	.00001	.00114	.0280
%RSD	.39224	.40853	.09505	.07177	.70653	.78464	63.455	.53040	.00258	.02539	.00272	.23394	1.1827
#1	.47629	.48702	.96341	.48679	.47909	.47962	.00146	4.8043	.49026	.49518	.49753	.48839	2.3471
#2	.47366	.48422	.96470	.48630	.48390	.48498	.00383	4.8405	.49024	.49500	.49755	.48678	2.3867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.093**	**1.0125**	**19.211**	**.47514**	**.49377**	**5.0270**	**.49500**	**.96634**	**.95948**	**.02821**	**.97464**	**.94351**	**4.7618**
Stddev	.249	.0031	.022	.00076	.00054	.0299	.00038	.00009	.00152	.00159	.00256	.00405	.0480
%RSD	.49645	.30996	.11648	.15955	.10908	.59495	.07633	.00978	.15835	5.6186	.26269	.42945	1.0070
#1	49.918	1.0102	19.227	.47461	.49415	5.0058	.49527	.96627	.95841	.02933	.97283	.94064	4.7279
#2	50.269	1.0147	19.195	.47568	.49339	5.0481	.49473	.96641	.96056	.02709	.97645	.94637	4.7957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.190**	**.98926**	**.50089**	**.00035**	**.49414**	**.99011**	**-.01274**	**.47389**	**.47611**	**.47671**
Stddev	.103	.00089	.00255	.00169	.00055	.00199	.02652	.00064	.00131	.00100
%RSD	1.0070	.08976	.50896	486.13	.11225	.20074	208.16	.13567	.27426	.20878
#1	10.118	.98864	.49908	.00154	.49453	.99152	-.03150	.47343	.47519	.47600
#2	10.263	.98989	.50269	-.00085	.49375	.98871	.00601	.47434	.47703	.47741
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4157.6**	**49488.**	**5787.9**
Stddev	4.4	37.	16.7
%RSD	.10486	.07469	.28795
#1	4154.5	49514.	5799.7
#2	4160.7	49462.	5776.1

Sample Name: CCB Acquired: 12/14/2011 1:52:57 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00228**	**.00032**	**.00002**	**-.00017**	**.00002**	**-.00149**	**-.00329**	**.00006**	**.00013**	**.00012**	**-.00062**
Stddev	.00036	.00057	.00035	.00023	.00006	.00002	.00143	.00207	.00015	.00015	.00012	.00019
%RSD	191.66	24.796	108.67	1045.7	34.864	86.445	95.856	62.792	255.00	113.48	102.48	30.480
#1	.00007	-.00188	.00007	-.00014	-.00021	.00001	-.00048	-.00183	.00017	.00024	.00003	-.00075
#2	-.00044	-.00268	.00057	.00018	-.00013	.00004	-.00251	-.00475	-.00005	.00003	.00021	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.08187**	W **.00309**	**-.00009**	**.00004**	**.00040**	**.07282**	**-.00010**	**-.00052**	**-.00086**	**.03745**	**.00069**
Stddev	.00107	.00366	.00050	.00153	.00001	.00013	.00321	.00002	.00069	.00056	.00344	.00073
%RSD	258.55	4.4656	16.115	1792.1	16.382	32.193	4.4049	15.367	131.82	65.212	9.1821	104.98
#1	.00034	.08446	.00345	-.00117	.00004	.00049	.07509	-.00011	-.00101	-.00046	.03502	.00121
#2	-.00117	.07929	.00274	.00100	.00003	.00031	.07055	-.00009	-.00004	-.00126	.03988	.00018
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00261									
Low Limit			-.00261									

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**.00504**	**.01080**	**.00066**	**.00004**	**.00039**	**.00033**	**-.00002**	**-.02192**	**-.00032**	**.00156**	**.00036**
Stddev	.00333	.00908	.01943	.00029	.00001	.00017	.00006	.00006	.03335	.00022	.00007	.00021
%RSD	273.43	179.96	179.96	44.140	16.725	42.847	16.936	282.63	152.14	67.568	4.3738	58.140
#1	.00358	-.00137	-.00294	.00046	.00004	.00050	.00037	-.00006	-.04550	-.00048	.00151	.00051
#2	-.00114	.01146	.02453	.00087	.00005	.00027	.00029	.00002	.00166	-.00017	.00161	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4156.8**	**50301.**	**5677.8**
Stddev	9.6	15.	18.0
%RSD	.23052	.02930	.31664
#1	4150.0	50291.	5665.1
#2	4163.5	50312.	5690.5

Sample Name: CCVL1171013 Acquired: 12/14/2011 1:55:22 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .00557	F .05789	F .00779	.10077	F .00580	F .00059	F .06715	F .11373	F .00299	F .00642	F .00603	F .00829	F .05737
Stddev	.00052	.00269	.00118	.00025	.00007	.00003	.00143	.00112	.00009	.00001	.00007	.00038	.00020
%RSD	9.4095	4.6550	15.089	.24804	1.1401	4.8547	2.1284	.98631	3.1155	.10816	1.0858	4.6323	.35152
#1	.00520	.05980	.00862	.10059	.00575	.00057	.06816	.11452	.00293	.00642	.00598	.00801	.05751
#2	.00594	.05599	.00696	.10095	.00584	.00061	.06614	.11294	.00306	.00643	.00607	.00856	.05722
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.01000	.10000	.01500		.01000	.00100	.10000	.20000	.00500	.01000	.01000	.01500	.10000
Range	-30.000%	-30.000%	-30.000%		-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.9685	.00787	F .12339	F .00602	.02012	F .69082	F .02445	2.9733	F .00531	.03328	.00861	F .00859	.49036
Stddev	.0551	.00057	.00150	.00005	.00000	.00188	.00025	.0005	.00004	.00329	.00023	.00127	.00330
%RSD	2.7985	7.2882	1.2182	.77568	.02303	.27272	1.0062	.01770	.69255	9.8778	2.6874	14.773	.67365
#1	1.9295	.00746	.12445	.00606	.02012	.68949	.02427	2.9730	.00528	.03095	.00845	.00949	.49270
#2	2.0074	.00828	.12233	.00599	.02012	.69215	.02462	2.9737	.00533	.03560	.00878	.00770	.48802
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	None	Chk Pass	Chk Fail	Chk Pass
Value	3.0000		.20000	.01000		1.0000	.04000		.00900			.01500	
Range	-30.000%		-30.000%	-30.000%		-30.000%	-30.000%		-30.000%			-30.000%	

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0494	.10376	F .00616	F .01032	.01044	.01078	F .01624	F .00543	F .01331	.01722
Stddev	.0071	.00005	.00001	.00013	.00008	.00068	.01720	.00032	.00024	.00082
%RSD	.67365	.04602	.21133	1.2839	.76500	6.3109	105.87	5.9323	1.8188	4.7808
#1	1.0544	.10379	.00615	.01023	.01039	.01030	.02840	.00566	.01314	.01664
#2	1.0444	.10373	.00617	.01042	.01050	.01126	.00408	.00521	.01348	.01780
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass
Value			.01000	.01500			.06000	.01000	.02000	
Range			-30.000%	-30.000%			-30.000%	-30.000%	-30.000%	

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	4293.9	52061.	5878.8
Stddev	23.9	165.	36.0
%RSD	.55712	.31768	.61241
#1	4310.8	52178.	5904.2
#2	4277.0	51944.	5853.3

Sample Name: 280-23668-c-6-a Acquired: 12/14/2011 1:57:46 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**-.00330**	**.00036**	**-.00047**	**-.00007**	**.00004**	**.00531**	**.01009**	**-.00011**	**.00028**
Stddev	.00025	.00069	.00005	.00016	.00002	.00003	.00208	.00018	.00007	.00018
%RSD	44.572	21.022	14.749	33.337	24.945	63.013	39.169	1.8235	60.948	63.353
#1	-.00074	-.00379	.00040	-.00036	-.00006	.00006	.00678	.01022	-.00016	.00041
#2	-.00039	-.00281	.00032	-.00058	-.00009	.00002	.00384	.00996	-.00006	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**-.00046**	**.00277**	**.05246**	**.00346**	**-.00013**	**.00010**	**.00009**	**.08762**	**.00005**
Stddev	.00011	.00007	.00065	.00871	.00182	.00004	.00003	.00011	.00819	.00021
%RSD	25.197	15.110	23.474	16.607	52.679	26.649	30.079	116.37	9.3454	394.89
#1	.00036	-.00051	.00231	.04630	.00217	-.00011	.00008	.00002	.08183	-.00010
#2	.00052	-.00041	.00324	.05862	.00475	-.00016	.00012	.00017	.09341	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00134**	**-.00143**	**.03715**	**-.00090**	**-.00027**	**-.00666**	**-.01425**	**-.00046**	**.00000**	**.00004**
Stddev	.00246	.00074	.00076	.00050	.00082	.00064	.00137	.00112	.0001	.00003
%RSD	183.57	51.573	2.0516	56.213	303.85	9.5992	9.5992	244.06	27675.	64.844
#1	.00040	-.00195	.03662	-.00054	.00031	-.00621	-.01329	.00033	-.00003	.00002
#2	-.00308	-.00091	.03769	-.00125	-.00085	-.00711	-.01522	-.00125	.00003	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00002**	**-.00072**	**-.00007**	**.00257**	**.00087**
Stddev	.00014	.00063	.01715	.00006	.00042	.00092
%RSD	37.293	3224.3	2390.2	78.256	16.315	105.33
#1	.00046	-.00042	-.01284	-.00003	.00287	.00022
#2	.00027	.00046	.01141	-.00011	.00228	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4243.6**	**51340.**	**5848.7**
Stddev	4.9	197.	25.4
%RSD	.11525	.38440	.43355
#1	4240.2	51201.	5830.8
#2	4247.1	51480.	5866.6

Sample Name: 280-23668-c-7-a Acquired: 12/14/2011 2:00:13 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00615**	**-.00083**	**.00947**	**.01585**	**.00009**	**.00379**	**.19236**	**.00002**	**.00068**
Stddev	.00003	.00002	.00102	.00003	.00024	.00008	.00007	.00368	.00003	.00003
%RSD	12.665	.24843	123.01	.35541	1.5213	87.745	1.7689	1.9136	186.34	4.3475
#1	-.00023	.00616	-.00011	.00949	.01602	.00015	.00374	.19496	.00004	.00070
#2	-.00027	.00614	-.00155	.00944	.01568	.00004	.00383	.18975	.00000	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00006**	**.01227**	**.80737**	**.00179**	**.46170**	**.00965**	**.00013**	**2.9272**	**.00070**
Stddev	.00009	.00013	.00277	.02811	.00009	.00215	.00001	.00007	.0124	.00012
%RSD	44.741	232.88	22.591	3.4815	4.8270	.46497	.07349	50.860	.42467	16.952
#1	.00026	-.00015	.01423	.82725	.00173	.46018	.00966	.00008	2.9359	.00078
#2	.00014	.00004	.01031	.78750	.00185	.46322	.00965	.00017	2.9184	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00043**	**.21721**	**-.00139**	**-.00082**	**4.0941**	**8.7613**	**-.00088**	**.00378**	**.00038**
Stddev	.0001	.00070	.00391	.00055	.00314	.0247	.0528	.00032	.00018	.00077
%RSD	32351.	163.44	1.7983	39.248	383.73	.60267	.60267	35.746	4.6365	202.33
#1	-.00006	.00092	.21445	-.00100	.00140	4.0766	8.7240	-.00111	.00390	-.00016
#2	.00006	-.00007	.21997	-.00177	-.00304	4.1115	8.7986	-.00066	.00366	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00178**	**-.01850**	**-.00015**	**.00406**	**.00176**
Stddev	.00000	.00066	.02296	.00014	.00033	.00057
%RSD	32.335	37.202	124.11	99.191	8.0281	32.320
#1	.00001	.00131	-.00226	-.00025	.00383	.00216
#2	.00001	.00225	-.03473	-.00004	.00429	.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4279.1**	**51473.**	**5894.9**
Stddev	5.0	501.	74.8
%RSD	.11692	.97427	1.2685
#1	4275.6	51828.	5947.8
#2	4282.6	51119.	5842.0

Sample Name: 280-23671-a-1-a Acquired: 12/14/2011 2:02:38 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**5.0058**	**-.00124**	**.01306**	**.01940**	**.00009**	**.00345**	**1.3631**	**.00003**	**.00037**
Stddev	.00014	.0282	.00216	.00035	.00021	.00008	.00002	.0075	.00005	.00001
%RSD	34.694	.56338	173.67	2.6842	1.0800	84.630	.52296	.54857	153.33	3.1917
#1	-.00031	4.9858	.00028	.01281	.01926	.00004	.00346	1.3578	.00000	.00038
#2	-.00050	5.0257	-.00277	.01331	.01955	.00015	.00343	1.3683	.00007	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00421**	**.00187**	**2.2694**	**.60746**	**.00387**	**.47898**	**.02414**	**.00011**	**3.0970**	**.00204**
Stddev	.00023	.00002	.0097	.02530	.00120	.00001	.00004	.00006	.0097	.00012
%RSD	5.4753	1.2770	.42674	4.1657	31.036	.00282	.15065	54.994	.31294	6.1164
#1	.00405	.00188	2.2625	.58957	.00472	.47897	.02417	.00015	3.0901	.00195
#2	.00437	.00185	2.2762	.62535	.00302	.47899	.02412	.00007	3.1038	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02501**	**.00174**	**.17308**	**-.00174**	**-.00196**	**9.6370**	**20.623**	**-.00114**	**.00860**	**.00096**
Stddev	.00106	.00116	.00292	.00161	.00181	.0476	.102	.00022	.00006	.00166
%RSD	4.2324	66.379	1.6851	92.518	92.352	.49359	.49359	19.556	.68277	172.55
#1	.02426	.00092	.17514	-.00288	-.00324	9.6034	20.551	-.00130	.00856	.00213
#2	.02575	.00256	.17101	-.00060	-.00068	9.6706	20.695	-.00099	.00864	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10959**	**.00140**	**-.00420**	**.00804**	**.00582**	**.00586**
Stddev	.00148	.00046	.03688	.00009	.00008	.00030
%RSD	1.3548	33.200	877.81	1.1756	1.2903	5.0746
#1	.10854	.00107	-.03028	.00797	.00576	.00607
#2	.11064	.00173	.02188	.00811	.00587	.00565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4285.4**	**51473.**	**5936.4**
Stddev	9.6	107.	26.7
%RSD	.22510	.20707	.44936
#1	4292.3	51548.	5955.3
#2	4278.6	51398.	5917.6

Sample Name: 280-23671-a-2-a Acquired: 12/14/2011 2:04:59 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.09050**	**-.00068**	**.01031**	**.04586**	**.00014**	**.00425**	**.71209**	**.00003**	**.00070**
Stddev	.00029	.00362	.00070	.00040	.00001	.00001	.00023	.00718	.00017	.00002
%RSD	96.654	3.9987	101.96	3.8856	.02726	4.9886	5.4428	1.0089	532.77	2.4251
#1	-.00010	.09306	-.00019	.01060	.04587	.00014	.00441	.70701	-.00009	.00069
#2	-.00051	.08794	-.00117	.01003	.04585	.00013	.00409	.71717	.00015	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00307**	**-.00016**	**.06930**	**1.6070**	**.00301**	**.67549**	**.00220**	**-.00033**	**4.1766**	**.00151**
Stddev	.00016	.00021	.00234	.0299	.00028	.00544	.00003	.00020	.0245	.00001
%RSD	5.1975	126.85	3.3831	1.8619	9.2373	.80577	1.1815	62.072	.58536	.62018
#1	.00318	-.00031	.06764	1.5858	.00281	.67164	.00218	-.00047	4.1593	.00152
#2	.00296	-.00002	.07095	1.6281	.00320	.67934	.00221	-.00018	4.1939	.00150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00090**	**.21394**	**-.00319**	**-.00006**	**10.882**	**23.287**	**-.00069**	**.01137**	**-.00015**
Stddev	.00062	.00047	.00056	.00015	.00079	.058	.123	.00004	.00008	.00034
%RSD	233.47	52.472	.26372	4.8065	1237.1	.52908	.52908	6.2303	.74309	223.39
#1	.00017	.00057	.21354	-.00330	-.00063	10.841	23.200	-.00073	.01131	.00009
#2	-.00070	.00124	.21434	-.00309	.00050	10.922	23.374	-.00066	.01143	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00258**	**.00235**	**-.01376**	**.00000**	**.00555**	**.00158**
Stddev	.00046	.00124	.01789	.0000	.00020	.00072
%RSD	17.849	52.865	130.02	625.31	3.5463	45.802
#1	.00226	.00323	-.00111	.00001	.00541	.00107
#2	.00291	.00147	-.02641	-.00002	.00568	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4268.2**	**51725.**	**5915.3**
Stddev	11.4	188.	48.4
%RSD	.26624	.36323	.81894
#1	4260.2	51858.	5949.5
#2	4276.3	51592.	5881.0

Sample Name: 280-23671-a-3-a Acquired: 12/14/2011 2:07:24 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288
Line	328.068 {103}	167.079 {502}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**2.2997**	W **2.5071**	**.00082**	**.01065**	**.01791**	**.00014**	**.00553**	**.44227**	**-.00002**
Stddev	.00006	.0043	.0065	.00021	.00015	.00004	.00000	.00273	.00108	.00010
%RSD	65.278	.18476	.26105	25.429	1.4457	.23925	1.1518	49.344	.24482	637.41
#1	-.00014	2.2967	2.5118	.00068	.01076	.01788	.00015	.00360	.44150	-.00009
#2	-.00005	2.3027	2.5025	.00097	.01054	.01794	.00014	.00746	.44304	.00006
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			500.00							
Low Limit			3.2000							

Elem	Co2286	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	228.616 {447}	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00270**	**.00119**	**2.7468**	**.40470**	**.00428**	**.63556**	**.01468**	**-.00001**	**3.2140**
Stddev	.00003	.00010	.00033	.0025	.01290	.00036	.00448	.00017	.00007	.0122
%RSD	7.7222	3.6836	28.049	.09163	3.1867	8.3955	.70452	1.1609	1287.9	.38053
#1	.00040	.00263	.00143	2.7450	.39558	.00403	.63873	.01480	-.00006	3.2053
#2	.00036	.00277	.00096	2.7485	.41382	.00454	.63240	.01456	.00005	3.2226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**.01238**	**.00081**	**.17173**	**-.00207**	**.00359**	**6.6869**	**14.310**	**-.00078**	**.00634**
Stddev	.00035	.00260	.00005	.00082	.00115	.00100	.0104	.022	.00042	.00002
%RSD	27.599	20.979	6.4935	.47489	55.504	27.930	.15579	.15579	53.514	.32521
#1	.00153	.01054	.00078	.17231	-.00126	.00288	6.6942	14.326	-.00108	.00632
#2	.00103	.01422	.00085	.17116	-.00288	.00430	6.6795	14.294	-.00049	.00635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	283.730 {119}	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00132**	**.05890**	**.00216**	**-.03208**	**.00470**	**.00498**	**.00455**
Stddev	.00137	.00166	.00024	.00964	.00033	.00001	.00174
%RSD	103.63	2.8155	11.120	30.040	6.9432	.24347	38.318
#1	.00035	.05772	.00199	-.02527	.00447	.00498	.00579
#2	.00229	.06007	.00233	-.03890	.00493	.00499	.00332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4279.1**	**51602.**	**5924.9**
Stddev	8.5	137.	6.8
%RSD	.19822	.26597	.11492
#1	4285.1	51505.	5929.7
#2	4273.1	51699.	5920.0

Sample Name: 280-23671-a-4-a Acquired: 12/14/2011 2:09:46 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.12246**	**.00075**	**.04273**	**.18668**	**.00004**	**.00273**	**5.5236**	**.00001**	**.02042**
Stddev	.00004	.00023	.00203	.00018	.00032	.00009	.00103	.0135	.00014	.00040
%RSD	15.192	.19085	271.87	.41151	.16989	199.94	37.710	.24483	1021.2	1.9686
#1	-.00033	.12263	.00218	.04285	.18646	.00011	.00345	5.5332	-.00009	.02014
#2	-.00026	.12230	-.00069	.04260	.18691	-.00002	.00200	5.5140	.00011	.02071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00099**	**3.1448**	**2.1154**	**.00242**	**4.8734**	**2.9016**	**-.00033**	**56.360**	**.00122**
Stddev	.00006	.00018	.0131	.0031	.00072	.0064	.0004	.00019	.048	.00010
%RSD	16.626	17.950	.41514	.14686	29.540	.13140	.01350	55.254	.08519	8.0073
#1	.00039	.00111	3.1541	2.1176	.00192	4.8689	2.9019	-.00047	56.394	.00129
#2	.00031	.00086	3.1356	2.1132	.00293	4.8779	2.9013	-.00020	56.326	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00788**	**.00016**	**1.1528**	**-.00212**	**-.00320**	**3.3880**	**7.2504**	**-.00064**	**.06052**	**-.00163**
Stddev	.00053	.00021	.0103	.00000	.00196	.0123	.0263	.00013	.00023	.00164
%RSD	6.7755	133.04	.89350	.20231	61.317	.36318	.36318	20.550	.37547	100.08
#1	.00825	.00001	1.1600	-.00213	-.00458	3.3793	7.2318	-.00073	.06036	-.00048
#2	.00750	.00031	1.1455	-.00212	-.00181	3.3967	7.2690	-.00055	.06068	-.00279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00240**	**.00340**	**-.00344**	**.00032**	**.00591**	**.00100**
Stddev	.00008	.00227	.00856	.00008	.00026	.00007
%RSD	3.2057	66.708	249.13	25.606	4.4754	6.7078
#1	.00234	.00180	-.00949	.00026	.00610	.00095
#2	.00245	.00500	.00262	.00038	.00573	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4205.8**	**49907.**	**5916.0**
Stddev	6.6	132.	45.0
%RSD	.15735	.26389	.75983
#1	4201.1	50000.	5947.8
#2	4210.4	49814.	5884.2

Sample Name: 280-23671-a-5-a Acquired: 12/14/2011 2:12:15 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.46613**	**.00027**	**.00974**	**.01650**	**.00019**	**.00422**	**.18302**	**.00004**	**.00057**
Stddev	.00040	.00275	.00107	.00041	.00023	.00003	.00170	.00111	.00012	.00005
%RSD	140.07	.59098	397.66	4.1598	1.3779	17.139	40.333	.60806	343.33	8.6244
#1	.00000	.46419	-.00049	.00946	.01634	.00021	.00543	.18381	.00012	.00061
#2	.00057	.46808	.00103	.01003	.01666	.00016	.00302	.18224	-.00005	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.00003**	**.26625**	**.69113**	**.00282**	**.46589**	**.00657**	**-.00008**	**2.9055**	**.00044**
Stddev	.00005	.00007	.00093	.01833	.00174	.00029	.00008	.00019	.0025	.00031
%RSD	7.8436	221.88	.34870	2.6516	61.881	.06326	1.1633	236.91	.08631	71.023
#1	.00065	.00009	.26690	.67817	.00405	.46610	.00662	-.00022	2.9073	.00022
#2	.00073	-.00002	.26559	.70409	.00159	.46568	.00651	.00005	2.9037	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00243**	**.00053**	**.22459**	**-.00130**	**.00056**	**4.6854**	**10.027**	**-.00109**	**.00374**	**.00095**
Stddev	.00077	.00131	.00064	.00086	.00491	.0530	.113	.00017	.00006	.00126
%RSD	31.690	248.33	.28642	65.819	877.66	1.1307	1.1307	15.981	1.7280	132.60
#1	.00297	.00146	.22413	-.00070	-.00291	4.6479	9.9465	-.00096	.00379	.00006
#2	.00188	-.00040	.22504	-.00191	.00403	4.7228	10.107	-.00121	.00370	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01070**	**.00149**	**-.02039**	**.00065**	**.00359**	**.00153**
Stddev	.00071	.00080	.00745	.00014	.00006	.00032
%RSD	6.5944	53.740	36.558	20.807	1.5666	20.680
#1	.01020	.00205	-.01512	.00056	.00363	.00176
#2	.01119	.00092	-.02566	.00075	.00355	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4302.7**	**51747.**	**5932.4**
Stddev	3.5	45.	45.5
%RSD	.08025	.08709	.76668
#1	4300.2	51715.	5964.6
#2	4305.1	51779.	5900.3

Sample Name: 280-23671-a-6-a Acquired: 12/14/2011 2:14:40 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00046**	**-.00038**	**-.00104**	**.00004**	**.00000**	**.00369**	**.00616**	**-.00007**	**.00035**
Stddev	.00016	.00134	.00095	.00017	.00005	.0001	.00051	.00169	.00007	.00017
%RSD	479.44	288.63	250.80	15.957	129.75	1060.3	13.712	27.368	105.83	47.704
#1	-.00008	.00048	.00029	-.00115	.00000	-.00004	.00333	.00497	-.00011	.00046
#2	.00014	-.00141	-.00105	-.00092	.00008	.00003	.00405	.00735	-.00002	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**-.00035**	**.00409**	**.06360**	**.00194**	**-.00025**	**.00006**	**.00007**	**.06344**	**.00007**
Stddev	.00003	.00012	.00029	.01769	.00106	.00174	.00001	.00013	.00369	.00025
%RSD	6.4566	34.240	7.1273	27.813	54.543	686.13	16.659	192.18	5.8205	375.38
#1	.00051	-.00044	.00430	.05109	.00269	-.00148	.00006	.00016	.06605	.00025
#2	.00047	-.00027	.00388	.07611	.00119	.00098	.00007	-.00002	.06083	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**-.00123**	**.03706**	**-.00182**	**.00072**	**.00221**	**.00473**	**-.00009**	**-.00003**	**-.00048**
Stddev	.00001	.00092	.00067	.00121	.00022	.00376	.00805	.00054	.00004	.00006
%RSD	1.3344	75.056	1.8116	66.513	31.136	170.40	170.40	612.41	145.02	13.275
#1	-.00096	-.00058	.03754	-.00097	.00088	.00487	.01042	.00030	-.00006	-.00053
#2	-.00094	-.00188	.03659	-.00268	.00056	-.00045	-.00097	-.00047	.00000	-.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00148**	**-.02398**	**.00018**	**.00266**	**.00112**
Stddev	.00009	.00077	.01455	.00003	.00013	.00030
%RSD	123.94	52.050	60.663	14.639	4.9106	26.994
#1	.00001	.00093	-.03427	.00016	.00275	.00090
#2	.00014	.00202	-.01370	.00019	.00256	.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4281.2**	**51501.**	**5907.1**
Stddev	11.0	4.	30.8
%RSD	.25705	.00864	.52146
#1	4289.0	51498.	5928.9
#2	4273.4	51504.	5885.3

Sample Name: 280-23671-a-7-a Acquired: 12/14/2011 2:17:06 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99567 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.54314**	**-.00131**	**.00952**	**.01651**	**.00011**	**.00282**	**.18400**	**-.00001**	**.00055**
Stddev	.00035	.00113	.00061	.00003	.00006	.00006	.00192	.00188	.00002	.00010
%RSD	283.57	.20850	46.943	.35389	.38100	53.665	68.126	1.0236	241.90	18.138
#1	.00037	.54234	-.00087	.00950	.01647	.00007	.00146	.18533	.00001	.00062
#2	-.00012	.54394	-.00174	.00955	.01656	.00015	.00417	.18267	-.00002	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00104**	**.00035**	**.32378**	**.81284**	**.00094**	**.47178**	**.00679**	**-.00010**	**2.8971**	**.00066**
Stddev	.00001	.00033	.00145	.01012	.00052	.00131	.00001	.00010	.0007	.00028
%RSD	.62773	94.043	.44811	1.2452	55.344	.27716	.11715	100.34	.02386	41.834
#1	.00104	.00059	.32480	.82000	.00057	.47271	.00678	-.00003	2.8966	.00047
#2	.00105	.00012	.32275	.80568	.00130	.47086	.00680	-.00017	2.8976	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00180**	**.00033**	**.22904**	**-.00242**	**-.00239**	**4.7768**	**10.222**	**-.00124**	**.00378**	**.00025**
Stddev	.00071	.00108	.00445	.00171	.00197	.0011	.002	.00087	.00009	.00029
%RSD	39.743	326.35	1.9435	70.663	82.214	.02305	.02305	69.731	2.4821	115.00
#1	.00230	-.00043	.23219	-.00363	-.00378	4.7776	10.224	-.00185	.00371	.00005
#2	.00129	.00110	.22589	-.00121	-.00100	4.7761	10.221	-.00063	.00385	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01344**	**.00184**	**-.01167**	**.00086**	**.00353**	**.00334**
Stddev	.00005	.00038	.00584	.00020	.00006	.00049
%RSD	.39939	20.891	50.035	23.168	1.8103	14.556
#1	.01340	.00157	-.01580	.00100	.00357	.00299
#2	.01348	.00211	-.00754	.00072	.00348	.00368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4298.9**	**51888.**	**5959.0**
Stddev	3.2	158.	50.2
%RSD	.07540	.30459	.84225
#1	4301.2	52000.	5994.5
#2	4296.6	51777.	5923.5

Sample Name: CCVH-1169743 Acquired: 12/14/2011 2:19:29 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00140**	**48.430**	**-.00312**	**.00077**	**.00049**	**-.00010**	**.98665**	**-.00576**	**-.00069**	**.00080**	**.00034**	**-.00263**
Stddev	.00032	.052	.00060	.00008	.00032	.00005	.00194	.00488	.00020	.00004	.00017	.00032
%RSD	22.948	.10735	19.349	10.743	65.102	51.488	.19616	84.739	28.479	4.6141	51.504	12.243
#1	-.00117	48.393	-.00269	.00082	.00026	-.00014	.98528	-.00921	-.00083	.00082	.00046	-.00240
#2	-.00163	48.466	-.00355	.00071	.00072	-.00006	.98802	-.00231	-.00055	.00077	.00021	-.00286
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None
Value												
Range												

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.782**	**.07363**	**.00346**	**-.00109**	**-.00151**	**-.00206**	**247.94**	**.00080**	**.00327**	**-.00084**	W **4.6275**	**-.00261**
Stddev	.088	.00655	.00005	.00476	.00009	.00036	.32	.00029	.00327	.00033	.0165	.00021
%RSD	.18099	8.8995	1.3840	434.42	5.8443	17.351	.12923	35.658	100.15	39.688	.35749	7.9858
#1	48.844	.06900	.00349	.00227	-.00157	-.00181	247.72	.00060	.00095	-.00061	4.6158	-.00246
#2	48.720	.07826	.00342	-.00446	-.00144	-.00231	248.17	.00100	.00559	-.00108	4.6392	-.00276
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None	None	None	Chk Warn	None
Value											5.0000	
Range											-5.0000%	

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00658**	**.01304**	**.02791**	**.00203**	**.00040**	**4.7581**	**.00232**	**-.00407**	**9.8122**	**-.00078**	**.00189**	**-.01625**
Stddev	.00149	.00691	.01478	.00022	.00002	.0010	.00009	.00188	.0341	.00013	.00015	.00242
%RSD	22.609	52.967	52.967	10.691	4.0144	.02217	3.7330	46.157	.34738	16.899	8.0667	14.867
#1	.00553	.00816	.01746	.00188	.00039	4.7589	.00226	-.00274	9.8363	-.00087	.00179	-.01796
#2	.00763	.01793	.03837	.00218	.00041	4.7574	.00238	-.00540	9.7881	-.00068	.00200	-.01455
Check ?	None	None	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value												
Range												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4079.9**	**48308.**	**5809.7**
Stddev	2.1	68.	38.6
%RSD	.05269	.14038	.66403
#1	4081.4	48356.	5782.4
#2	4078.3	48261.	5836.9

Sample Name: CCV-1169927 Acquired: 12/14/2011 2:21:49 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47528**	**.48383**	**.95872**	**.48433**	**.48795**	**.48432**	**.00044**	**4.8411**	**.48942**	**.49450**	**.49697**	**.48976**	**2.3669**
Stddev	.00086	.00123	.00193	.00077	.00117	.00077	.00058	.0064	.00010	.00028	.00022	.00142	.0030
%RSD	.18103	.25321	.20169	.15922	.24058	.15874	130.43	.13166	.02109	.05719	.04401	.29065	.12745
#1	.47589	.48470	.96009	.48379	.48878	.48486	.00003	4.8366	.48934	.49430	.49682	.48875	2.3648
#2	.47468	.48296	.95735	.48488	.48712	.48378	.00085	4.8456	.48949	.49470	.49713	.49077	2.3690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.309**	**1.0143**	**19.110**	**.47450**	**.49323**	**5.0490**	**.49465**	**.96214**	**.95781**	**.01273**	**.97539**	**.94572**	**4.7688**
Stddev	.018	.0016	.008	.00136	.00010	.0115	.00035	.00173	.00230	.00609	.00364	.00745	.0002
%RSD	.03492	.15819	.04157	.28733	.02127	.22748	.07144	.17947	.24022	47.875	.37269	.78819	.00482
#1	50.321	1.0154	19.104	.47353	.49316	5.0572	.49490	.96092	.95619	.00842	.97282	.94045	4.7687
#2	50.297	1.0132	19.115	.47546	.49331	5.0409	.49440	.96336	.95944	.01703	.97796	.95099	4.7690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.205**	**.98643**	**.50373**	**-.00113**	**.49349**	**.99350**	**-.00547**	**.47440**	**.47463**	**.48102**
Stddev	.000	.00286	.00007	.00024	.00132	.00036	.01216	.00143	.00069	.00134
%RSD	.00482	.28995	.01441	21.335	.26680	.03632	222.31	.30118	.14612	.27879
#1	10.205	.98441	.50378	-.00130	.49256	.99325	-.01407	.47339	.47513	.48007
#2	10.206	.98845	.50367	-.00096	.49443	.99376	.00313	.47541	.47414	.48197
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4172.1**	**49937.**	**5807.1**
Stddev	15.1	3.	12.7
%RSD	.36161	.00696	.21786
#1	4182.7	49935.	5816.1
#2	4161.4	49940.	5798.2

Sample Name: CCB Acquired: 12/14/2011 2:24:00 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.00047**	**-.00116**	**-.00002**	**-.00006**	**.00002**	**-.00056**	**-.00590**	**.00000**	**.00018**	**.00019**	**-.00033**	**.00149**
Stddev	.00042	.00203	.00086	.00020	.00022	.00003	.00035	.00039	.0001	.00003	.00025	.00008	.00074
%RSD	173.70	428.03	74.059	838.21	362.74	226.15	62.975	6.6034	11471.	14.679	128.75	24.672	49.312
#1	.00006	.00096	-.00176	-.00016	.00010	-.00001	-.00031	-.00618	-.00010	.00016	.00037	-.00039	.00097
#2	-.00054	-.00191	-.00055	.00012	-.00022	.00004	-.00081	-.00563	.00010	.00020	.00002	-.00028	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08763**	**.00208**	**.00137**	**.00006**	**.00040**	**.05777**	**-.00009**	**-.00151**	**-.00058**	**.03010**	**.00083**	**-.00027**	**-.00149**
Stddev	.00718	.00093	.00009	.00002	.00026	.00079	.00020	.00015	.00009	.00842	.00177	.00115	.00218
%RSD	8.1988	44.756	6.5765	26.042	66.037	1.3688	216.18	9.8557	15.378	27.970	213.15	428.91	146.40
#1	.08255	.00142	.00130	.00007	.00021	.05721	.00005	-.00162	-.00052	.03605	.00208	-.00108	-.00303
#2	.09271	.00274	.00143	.00005	.00058	.05833	-.00024	-.00141	-.00065	.02415	-.00042	.00054	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00318**	**-.00001**	**-.00001**	**.00045**	**.00033**	**-.00110**	**-.01467**	**-.00029**	**.00094**	**.00120**
Stddev	.00466	.00088	.00000	.00021	.00006	.00025	.01981	.00009	.00031	.00007
%RSD	146.40	9500.8	2.9586	45.297	17.492	22.621	135.02	32.422	32.677	5.7265
#1	-.00648	.00061	-.00001	.00060	.00037	-.00127	-.02868	-.00036	.00072	.00115
#2	.00011	-.00063	-.00001	.00031	.00029	-.00092	-.00066	-.00023	.00116	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4161.1**	**50892.**	**5740.4**
Stddev	2.9	116.	47.0
%RSD	.06870	.22743	.81799
#1	4159.0	50810.	5773.6
#2	4163.1	50973.	5707.2

Sample Name: CCVL1171013 Acquired: 12/14/2011 2:26:26 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .00567	F .05827	F .00745	.10186	F .00606	F .00059	F .06910	F .11421	F .00294	F .00627	F .00625	F .00865	F .05760
Stddev	.00006	.00088	.00027	.00074	.00028	.00005	.00164	.00036	.00014	.00003	.00010	.00027	.00030
%RSD	1.1385	1.5174	3.5606	.72410	4.6615	9.1704	2.3730	.31407	4.7794	.47375	1.5355	3.1085	.51903
#1	.00571	.05764	.00726	.10238	.00586	.00055	.07026	.11446	.00304	.00624	.00632	.00846	.05781
#2	.00562	.05889	.00763	.10134	.00626	.00063	.06794	.11395	.00284	.00629	.00618	.00884	.05739
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.01000	.10000	.01500		.01000	.00100	.10000	.20000	.00500	.01000	.01000	.01500	.10000
Range	-30.000%	-30.000%	-30.000%		-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.9446	.00756	F .12003	F .00607	.02028	F .68530	F .02474	3.0129	F .00519	.02905	.00860	.01147	.47842
Stddev	.0071	.00123	.00040	.00001	.00001	.00533	.00039	.0103	.00007	.00199	.00109	.00050	.00622
%RSD	.36447	16.222	.33277	.20915	.05201	.77728	1.5639	.34082	1.3624	6.8595	12.625	4.3644	1.3004
#1	1.9395	.00669	.11975	.00608	.02029	.68907	.02501	3.0202	.00524	.03046	.00783	.01182	.47402
#2	1.9496	.00842	.12032	.00606	.02027	.68154	.02446	3.0056	.00514	.02764	.00937	.01111	.48282
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass
Value	3.0000		.20000	.01000		1.0000	.04000		.00900				
Range	-30.000%		-30.000%	-30.000%		-30.000%	-30.000%		-30.000%				

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0238	.10410	F .00619	F .00984	.01030	F .00991	F .03066	F .00557	F .01345	.01701
Stddev	.0133	.00049	.00002	.00098	.00016	.00181	.03561	.00037	.00010	.00051
%RSD	1.3004	.46716	.26942	9.9978	1.5872	18.247	116.15	6.6068	.71568	2.9823
#1	1.0144	.10444	.00617	.00914	.01042	.00864	.05584	.00531	.01338	.01737
#2	1.0332	.10375	.00620	.01053	.01019	.01119	.00548	.00583	.01351	.01665
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
Value			.01000	.01500		.01500	.06000	.01000	.02000	
Range			-30.000%	-30.000%		-30.000%	-30.000%	-30.000%	-30.000%	

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	4278.4	51886.	5910.6
Stddev	1.4	338.	24.6
%RSD	.03288	.65061	.41553
#1	4279.4	52125.	5928.0
#2	4277.4	51648.	5893.3

Sample Name: mb 280-99743/1-a Acquired: 12/14/2011 2:28:49 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99743 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00448**	**.00083**	**-.00048**	**-.00010**	**.00007**	**.00071**	**.00055**	**.00011**	**.00017**
Stddev	.00004	.00076	.00052	.00065	.00012	.00002	.00077	.00264	.00005	.00014
%RSD	55.790	16.906	63.044	134.66	117.04	30.265	109.40	483.26	46.648	81.873
#1	-.00011	-.00395	.00046	-.00094	-.00002	.00005	.00125	.00241	.00007	.00027
#2	-.00005	-.00502	.00119	-.00002	-.00018	.00008	.00016	-.00132	.00014	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00022**	**.00415**	**.07039**	**.00419**	**.00133**	**.00010**	**.00002**	**.05465**	**-.00025**
Stddev	.00005	.00008	.00097	.00068	.00073	.00040	.00001	.00009	.00383	.00009
%RSD	29.605	38.601	23.341	.96619	17.440	29.779	10.827	509.74	7.0098	37.309
#1	.00013	-.00028	.00347	.07087	.00471	.00161	.00011	.00008	.05194	-.00019
#2	.00020	-.00016	.00484	.06991	.00367	.00105	.00009	-.00005	.05736	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00230**	**-.00066**	F **.03272**	**-.00173**	**-.00020**	F **-.01484**	F **-.03175**	**-.00117**	**.00005**	**.00140**
Stddev	.00136	.00060	.00173	.00058	.00259	.00185	.00396	.00063	.00003	.00023
%RSD	59.172	91.365	5.2731	33.353	1286.7	12.475	12.475	54.079	71.601	16.149
#1	-.00326	-.00108	.03150	-.00132	.00163	-.01614	-.03455	-.00161	.00007	.00156
#2	-.00134	-.00023	.03394	-.00213	-.00203	-.01353	-.02895	-.00072	.00002	.00124
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			.01000			.01000	.01000			
Low Limit			-.01000			-.01000	-.01000			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00063**	**-.02175**	**.00003**	**.00239**	**.00141**
Stddev	.00021	.00095	.02427	.00017	.00036	.00018
%RSD	477.76	150.35	111.56	501.47	15.139	12.642
#1	.00011	-.00004	-.03891	-.00008	.00265	.00128
#2	-.00019	.00130	-.00459	.00015	.00214	.00154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4237.8**	**51313.**	**5832.2**
Stddev	10.6	211.	22.4
%RSD	.24960	.41164	.38352
#1	4245.3	51163.	5816.4
#2	4230.3	51462.	5848.0

Sample Name: lcs 280-99743/2-a Acquired: 12/14/2011 2:31:14 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99743 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04875**	**1.8893**	**.98067**	**.98519**	**1.9544**	**.04869**	**2.0661**	**47.489**	**.09888**	**.48679**
Stddev	.00022	.0008	.00198	.00139	.0105	.00012	.0014	.178	.00009	.00057
%RSD	.45188	.04036	.20173	.14112	.53655	.24691	.06923	.37572	.09340	.11656
#1	.04890	1.8899	.98207	.98618	1.9470	.04860	2.0651	47.362	.09894	.48719
#2	.04859	1.8888	.97927	.98421	1.9618	.04877	2.0671	47.615	.09881	.48639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19910**	**.24521**	**.93665**	**50.799**	**1.0161**	**47.996**	**.47935**	**.99535**	**53.182**	**.49449**
Stddev	.00058	.00164	.01099	.125	.0028	.032	.00028	.00117	.128	.00104
%RSD	.29267	.66770	1.1729	.24580	.27947	.06677	.05765	.11746	.24026	.21110
#1	.19951	.24405	.92888	50.710	1.0141	48.019	.47954	.99618	53.092	.49523
#2	.19868	.24637	.94442	50.887	1.0181	47.974	.47915	.99453	53.273	.49375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9013**	**.48126**	**.01702**	**.49149**	**1.9011**	**9.6489**	F **20.649**	**1.9774**	**1.0194**	**1.0053**
Stddev	.0218	.00145	.00154	.00075	.0010	.0390	.083	.0084	.0022	.0027
%RSD	.21987	.30131	9.0489	.15325	.05377	.40382	.40382	.42690	.22044	.26949
#1	9.9167	.48023	.01593	.49202	1.9004	9.6214	20.590	1.9834	1.0178	1.0072
#2	9.8860	.48228	.01811	.49095	1.9019	9.6765	20.708	1.9714	1.0210	1.0034
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							24.610			
Low Limit							20.100			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0137**	**1.9553**	**2.1123**	**.48186**	**.47400**	**.48596**
Stddev	.0008	.0033	.0033	.00020	.00214	.00259
%RSD	.07792	.16985	.15419	.04233	.45130	.53289
#1	1.0142	1.9576	2.1100	.48172	.47552	.48413
#2	1.0131	1.9529	2.1146	.48200	.47249	.48779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4055.4**	**48252.**	**5758.6**
Stddev	1.2	40.	18.0
%RSD	.03017	.08324	.31343
#1	4054.6	48224.	5771.4
#2	4056.3	48280.	5745.9

Sample Name: 280-23661-d-1-e Acquired: 12/14/2011 2:33:23 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99743 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.03188**	**-.00279**	**.15323**	**.56479**	**-.00002**	**.00207**	**2.9194**	**.00010**	**-.00020**
Stddev	.00037	.00018	.00036	.00033	.00222	.00002	.00147	.0012	.00009	.00002
%RSD	251.92	.56744	13.084	.21410	.39329	146.07	70.775	.03969	94.010	10.855
#1	.00011	.03175	-.00305	.15346	.56636	-.00003	.00103	2.9202	.00003	-.00022
#2	-.00041	.03201	-.00253	.15300	.56322	.00000	.00311	2.9186	.00017	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00233**	**.00024**	**.67244**	**3.0063**	**.09394**	**.61115**	**.01216**	**.00147**	W **612.71**	**.00021**
Stddev	.00008	.00001	.00667	.0086	.00148	.00526	.00005	.00047	1.86	.00015
%RSD	3.4662	5.0937	.99119	.28774	1.5744	.86007	.44580	32.190	.30386	69.333
#1	.00228	.00023	.67716	3.0002	.09289	.60743	.01220	.00113	614.02	.00011
#2	.00239	.00024	.66773	3.0124	.09498	.61486	.01212	.00180	611.39	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03335**	**.00040**	**.18595**	**-.00001**	**-.00069**	**8.4061**	**17.989**	**-.00080**	**.63976**	**.00007**
Stddev	.00009	.00028	.00471	.00034	.00154	.0152	.032	.00037	.00055	.00146
%RSD	.28456	69.054	2.5352	3366.3	221.83	.18064	.18064	45.624	.08672	1955.1
#1	.03342	.00020	.18262	.00023	-.00178	8.4168	18.012	-.00106	.64016	.00111
#2	.03328	.00059	.18928	-.00025	.00039	8.3953	17.966	-.00054	.63937	-.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00129**	**.00138**	**-.03164**	**-.00001**	**.00307**	**.00218**
Stddev	.00004	.00044	.01601	.00014	.00024	.00060
%RSD	2.9077	31.768	50.617	1085.1	7.7800	27.486
#1	.00131	.00169	-.04296	-.00011	.00324	.00260
#2	.00126	.00107	-.02031	.00009	.00290	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3922.5**	**45031.**	**5673.0**
Stddev	16.2	98.	7.6
%RSD	.41295	.21801	.13415
#1	3933.9	45101.	5678.4
#2	3911.0	44962.	5667.6

Sample Name: 280-23661-d-2-c Acquired: 12/14/2011 2:35:53 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99743 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.04089**	**-.00022**	**.15033**	**.62415**	**.00003**	**.00282**	**3.0667**	**.00017**	**-.00020**
Stddev	.00029	.00125	.00016	.00073	.00317	.00003	.00013	.0055	.00007	.00022
%RSD	121.07	3.0488	72.039	.48365	.50824	95.208	4.6392	.17846	42.173	111.41
#1	-.00045	.04177	-.00033	.15084	.62639	.00005	.00291	3.0706	.00012	-.00035
#2	-.00003	.04001	-.00011	.14981	.62191	.00001	.00273	3.0629	.00022	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00148**	**.00091**	**.98837**	**3.2582**	**.10258**	**.74290**	**.01890**	**.00073**	W **665.22**	**.00037**
Stddev	.00005	.00016	.00277	.0153	.00228	.00203	.00009	.00006	.18	.00019
%RSD	3.7105	18.114	.28049	.46972	2.2195	.27353	.49072	8.0823	.02692	51.723
#1	.00144	.00103	.98641	3.2690	.10419	.74147	.01884	.00077	665.34	.00050
#2	.00151	.00079	.99033	3.2474	.10097	.74434	.01897	.00069	665.09	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03785**	**.00014**	**.22968**	**-.00034**	**.00068**	**8.8970**	**19.040**	**-.00063**	**.64218**	**-.00020**
Stddev	.00040	.00025	.00075	.00035	.00553	.0232	.050	.00077	.00131	.00076
%RSD	1.0462	185.37	.32844	100.33	814.41	.26104	.26104	121.42	.20454	387.64
#1	.03757	.00032	.23021	-.00059	.00459	8.9134	19.075	-.00009	.64311	.00034
#2	.03813	-.00004	.22914	-.00010	-.00323	8.8806	19.004	-.00118	.64125	-.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00106**	**.00072**	**-.01617**	**.00036**	**.00401**	**.00114**
Stddev	.00014	.00094	.02251	.00012	.00036	.00066
%RSD	13.360	130.14	139.22	33.101	8.9337	58.094
#1	.00096	.00139	-.00025	.00027	.00376	.00160
#2	.00116	.00006	-.03209	.00044	.00427	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3886.3**	**44873.**	**5659.4**
Stddev	13.5	117.	45.6
%RSD	.34640	.26001	.80509
#1	3876.8	44956.	5691.6
#2	3895.8	44791.	5627.2

Sample Name: 280-23661-d-3-c Acquired: 12/14/2011 2:38:23 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99743 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.06868**	**-.00069**	**.14873**	**.28438**	**.00006**	**.00052**	**2.5792**	**-.00006**	**-.00006**
Stddev	.00043	.00027	.00183	.00011	.00052	.00008	.00129	.0009	.00000	.00027
%RSD	366.18	.39726	266.26	.07732	.18205	132.72	250.82	.03606	4.1187	428.75
#1	.00042	.06849	-.00198	.14881	.28475	.00012	.00143	2.5786	-.00006	.00013
#2	-.00019	.06887	.00061	.14865	.28402	.00000	-.00040	2.5799	-.00006	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00426**	**.00166**	**1.2991**	**2.0766**	**.06891**	**.33831**	**.01724**	**.00150**	**398.30**	**.00559**
Stddev	.00006	.00002	.0002	.0379	.00152	.00122	.00010	.00020	.64	.00000
%RSD	1.4751	1.1968	.01601	1.8257	2.1985	.36081	.58868	13.085	.16087	.00504
#1	.00422	.00167	1.2989	2.0498	.06784	.33745	.01731	.00164	398.75	.00559
#2	.00430	.00164	1.2992	2.1034	.06998	.33918	.01717	.00136	397.85	.00559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03036**	**.00042**	**.22790**	**.00065**	**-.00292**	**8.9874**	**19.233**	**-.00104**	**.37826**	**.00035**
Stddev	.00234	.00054	.00409	.00086	.00044	.0348	.074	.00074	.00032	.00024
%RSD	7.7244	128.28	1.7954	131.23	15.204	.38703	.38703	71.549	.08395	68.675
#1	.02870	.00080	.23079	.00005	-.00261	9.0120	19.286	-.00051	.37848	.00052
#2	.03201	.00004	.22501	.00126	-.00323	8.9628	19.180	-.00156	.37803	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.00089**	**-.02047**	**.00020**	**.00292**	**.00182**
Stddev	.00001	.00011	.01236	.00040	.00001	.00071
%RSD	.89323	12.741	60.389	198.18	.23494	39.127
#1	.00138	.00081	-.01173	-.00008	.00292	.00232
#2	.00140	.00097	-.02921	.00048	.00291	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3936.8**	**45640.**	**5615.3**
Stddev	6.3	238.	19.8
%RSD	.16037	.52117	.35338
#1	3941.2	45472.	5629.3
#2	3932.3	45808.	5601.3

Sample Name: 280-23661-d-4-c Acquired: 12/14/2011 2:40:53 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99743 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.03296**	**.00137**	**.02686**	**.42214**	**.00004**	**.00253**	**5.2865**	**-.00005**	**.00002**
Stddev	.00046	.00113	.00015	.00036	.00007	.00000	.00103	.0121	.00015	.00006
%RSD	280.08	3.4176	11.087	1.3557	.01632	4.8075	40.722	.22959	314.70	275.10
#1	-.00049	.03217	.00148	.02712	.42219	.00004	.00180	5.2951	.00006	-.00002
#2	.00016	.03376	.00126	.02660	.42210	.00004	.00325	5.2779	-.00015	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.00074**	**.52208**	**1.3573**	**.01506**	**.99381**	**.00827**	**.00040**	**196.34**	**.00025**
Stddev	.00022	.00006	.00265	.0312	.00050	.00351	.00000	.00003	.29	.00015
%RSD	32.633	8.4295	.50752	2.2999	3.3159	.35327	.04644	8.5230	.14592	60.209
#1	.00085	.00078	.52020	1.3794	.01542	.99629	.00828	.00038	196.55	.00014
#2	.00053	.00069	.52395	1.3352	.01471	.99133	.00827	.00043	196.14	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02819**	**.00012**	**.14738**	**-.00172**	**-.00081**	**6.7255**	**14.392**	**-.00072**	**.33874**	**-.00119**
Stddev	.00081	.00127	.00074	.00082	.00256	.0219	.047	.00186	.00040	.00027
%RSD	2.8750	1092.2	.50496	47.998	315.82	.32558	.32558	257.56	.11876	22.664
#1	.02877	.00101	.14790	-.00230	.00100	6.7409	14.426	.00059	.33903	-.00100
#2	.02762	-.00078	.14685	-.00113	-.00262	6.7100	14.359	-.00204	.33846	-.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00101**	**.00964**	**.00017**	**.00273**	**.00075**
Stddev	.00006	.00083	.00684	.00048	.00032	.00035
%RSD	6.0774	82.429	70.945	280.57	11.615	46.000
#1	.00099	.00160	.01448	.00052	.00251	.00051
#2	.00107	.00042	.00480	-.00017	.00296	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4001.3**	**47010.**	**5537.1**
Stddev	9.2	38.	13.8
%RSD	.22974	.08168	.24878
#1	4007.8	47037.	5546.8
#2	3994.8	46983.	5527.3

Sample Name: 280-23661-d-4-cSD@5 Acquired: 12/14/2011 2:43:17 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99743 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00936**	**.00170**	**.00538**	**.08676**	**.00002**	**.00021**	**1.0774**	**.00003**	**.00001**
Stddev	.00002	.00084	.00325	.00019	.00040	.00001	.00264	.0048	.00003	.00006
%RSD	19.184	8.9962	191.19	3.5865	.46587	41.935	1278.2	.44294	81.373	408.34
#1	-.00015	.00996	-.00060	.00551	.08705	.00001	.00207	1.0740	.00005	-.00003
#2	-.00011	.00877	.00399	.00524	.08647	.00003	-.00166	1.0808	.00001	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00004**	**.11043**	**.36390**	**.00661**	**.20612**	**.00184**	**-.00006**	**40.911**	**-.00008**
Stddev	.00018	.00018	.00001	.01911	.00076	.00071	.00003	.00004	.136	.00018
%RSD	150.78	520.34	.00776	5.2524	11.463	.34568	1.8631	67.686	.33232	215.58
#1	-.00001	.00016	.11043	.35038	.00715	.20662	.00182	-.00003	40.815	.00004
#2	.00025	-.00009	.11042	.37741	.00608	.20561	.00187	-.00009	41.007	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00398**	**-.00065**	**.04853**	**-.00059**	**.00064**	**1.3584**	**2.9070**	**-.00061**	**.06930**	**.00017**
Stddev	.00227	.00135	.00441	.00061	.00216	.0055	.0118	.00006	.00023	.00126
%RSD	57.070	208.92	9.0834	102.87	337.45	.40504	.40504	9.0552	.32627	729.21
#1	.00237	.00031	.05165	-.00016	.00217	1.3623	2.9153	-.00065	.06946	-.00072
#2	.00559	-.00160	.04542	-.00102	-.00089	1.3545	2.8986	-.00057	.06914	.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00057**	**-.00622**	**-.00016**	**.00461**	**.00039**
Stddev	.00035	.00044	.00453	.00023	.00004	.00028
%RSD	362.24	77.755	72.789	146.41	.93732	71.911
#1	.00035	.00026	-.00942	-.00033	.00458	.00059
#2	-.00015	.00088	-.00302	.00001	.00464	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4048.5**	**48340.**	**5487.5**
Stddev	9.4	236.	12.7
%RSD	.23129	.48814	.23104
#1	4055.1	48507.	5496.4
#2	4041.9	48173.	5478.5

Sample Name: 280-23661-d-4-d ms Acquired: 12/14/2011 2:45:41 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99743 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04783**	**1.8984**	**.98409**	**.99879**	**2.3501**	**.04803**	F **2.0320**	**52.128**	**.09836**	**.47916**
Stddev	.00030	.0005	.00039	.00316	.0037	.00015	.0091	.061	.00004	.00185
%RSD	.62529	.02859	.03999	.31632	.15715	.32200	.44580	.11682	.03859	.38515
#1	.04762	1.8980	.98381	.99655	2.3527	.04792	2.0256	52.171	.09833	.47786
#2	.04804	1.8988	.98437	1.0010	2.3475	.04814	2.0384	52.085	.09839	.48047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19726**	**.24409**	**1.4482**	**51.184**	**1.0040**	**48.192**	**.48404**	**.98341**	**247.54**	**.48636**
Stddev	.00003	.00162	.0065	.125	.0005	.108	.00116	.00157	.39	.00064
%RSD	.01761	.66526	.45096	.24487	.05242	.22464	.24052	.15916	.15872	.13204
#1	.19724	.24295	1.4528	51.273	1.0036	48.116	.48321	.98231	247.82	.48591
#2	.19729	.24524	1.4435	51.095	1.0044	48.269	.48486	.98452	247.26	.48681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **9.9862**	**.46815**	**.08098**	**.48590**	**1.8606**	**16.383**	**35.059**	**1.9450**	**1.3361**	**.99614**
Stddev	.0130	.00452	.00249	.00121	.0065	.001	.002	.0078	.0003	.00696
%RSD	.13013	.96603	3.0737	.24974	.34985	.00581	.00581	.39919	.02017	.69824
#1	9.9770	.46495	.08274	.48504	1.8560	16.384	35.061	1.9396	1.3359	.99122
#2	9.9953	.47135	.07922	.48676	1.8652	16.382	35.058	1.9505	1.3363	1.0011
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0075**	**1.8645**	**2.0452**	**.47981**	**.48209**	**.48119**
Stddev	.0010	.0010	.0021	.00058	.00268	.00120
%RSD	.10332	.05649	.10265	.12013	.55511	.24889
#1	1.0083	1.8637	2.0466	.47940	.48398	.48035
#2	1.0068	1.8652	2.0437	.48022	.48020	.48204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3908.4**	**46030.**	**5572.6**
Stddev	.7	26.	32.8
%RSD	.01705	.05615	.58845
#1	3908.8	46048.	5549.4
#2	3907.9	46011.	5595.8

Sample Name: 280-23661-d-4-e msd Acquired: 12/14/2011 2:47:50 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99743 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04907**	**1.9043**	**.99289**	**1.0079**	**2.3646**	**.04859**	F **2.0547**	**52.368**	**.09925**	**.48320**
Stddev	.00008	.0015	.00611	.0008	.0049	.00012	.0046	.183	.00018	.00082
%RSD	.15518	.07856	.61502	.07980	.20580	.25572	.22549	.34932	.18580	.16967
#1	.04901	1.9054	.99721	1.0085	2.3611	.04868	2.0580	52.498	.09938	.48378
#2	.04912	1.9033	.98857	1.0073	2.3680	.04850	2.0514	52.239	.09912	.48262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19881**	**.24607**	**1.4489**	**51.619**	**1.0171**	**48.160**	**.48520**	**.99253**	**247.86**	**.49026**
Stddev	.00032	.00102	.0094	.040	.0017	.084	.00064	.00101	.38	.00050
%RSD	.16156	.41300	.64607	.07808	.16179	.17341	.13116	.10163	.15395	.10153
#1	.19858	.24536	1.4423	51.647	1.0159	48.219	.48565	.99181	248.13	.49061
#2	.19904	.24679	1.4555	51.590	1.0182	48.101	.48475	.99324	247.59	.48990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **10.069**	**.47040**	**.08083**	**.48909**	**1.8814**	**16.481**	**35.270**	**1.9597**	**1.3471**	**1.0019**
Stddev	.010	.00201	.00366	.00273	.0019	.002	.005	.0019	.0007	.0037
%RSD	.09832	.42664	4.5310	.55721	.10017	.01280	.01280	.09679	.04879	.37260
#1	10.076	.47182	.08342	.49102	1.8801	16.480	35.267	1.9610	1.3466	1.0046
#2	10.062	.46899	.07824	.48716	1.8828	16.483	35.273	1.9583	1.3476	.99930
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000									
Low Limit	-1.0000									

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0116**	**1.8874**	**2.0592**	**.48039**	**.47854**	**.48426**
Stddev	.0001	.0071	.0124	.00038	.00094	.00016
%RSD	.01078	.37425	.60473	.07872	.19638	.03372
#1	1.0117	1.8924	2.0504	.48066	.47787	.48415
#2	1.0115	1.8824	2.0680	.48013	.47920	.48438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3923.2**	**46310.**	**5598.5**
Stddev	8.5	57.	53.3
%RSD	.21773	.12406	.95231
#1	3917.1	46270.	5560.8
#2	3929.2	46351.	5636.2

Sample Name: 280-23682-e-5-a Acquired: 12/14/2011 2:49:58 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99743 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.11017**	**-.00228**	**.11925**	**.08568**	**.00002**	**.00163**	**48.866**	**.00025**	**.00263**
Stddev	.00028	.00219	.00054	.00013	.00003	.00004	.00207	.085	.00005	.00005
%RSD	369.96	1.9852	23.642	.10590	.03439	177.37	126.94	.17373	21.615	2.0079
#1	.00012	.10862	-.00189	.11934	.08570	.00005	.00017	48.926	.00021	.00267
#2	-.00028	.11172	-.00266	.11916	.08566	-.00001	.00310	48.806	.00029	.00259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00152**	**.00630**	**.68088**	**54.541**	**.02437**	**17.587**	**.09711**	**.00339**	**130.27**	**.00535**
Stddev	.00017	.00052	.00554	.047	.00251	.019	.00033	.00017	.13	.00015
%RSD	10.930	8.1956	.81408	.08588	10.290	.10817	.34254	5.0438	.09845	2.8583
#1	.00141	.00594	.68480	54.508	.02614	17.574	.09735	.00327	130.36	.00545
#2	.00164	.00667	.67696	54.574	.02259	17.601	.09688	.00351	130.18	.00524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3295**	**.00054**	**26.955**	**-.00145**	**.00163**	**4.4458**	**9.5140**	**-.00075**	**.33695**	**.00009**
Stddev	.0044	.00125	.169	.00044	.00131	.0068	.0145	.00031	.00040	.00034
%RSD	.33199	230.63	.62631	30.492	80.168	.15266	.15266	41.153	.11807	371.84
#1	1.3326	-.00034	26.835	-.00114	.00071	4.4410	9.5037	-.00053	.33667	-.00015
#2	1.3264	.00142	27.074	-.00176	.00256	4.4506	9.5242	-.00097	.33723	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00185**	**.00215**	**-.02094**	**.00089**	**.03225**	**.00251**
Stddev	.00014	.00016	.00259	.00049	.00088	.00034
%RSD	7.3461	7.5394	12.388	55.195	2.7387	13.586
#1	.00195	.00203	-.01911	.00124	.03287	.00227
#2	.00176	.00226	-.02278	.00054	.03163	.00275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4017.9**	**47600.**	**5744.1**
Stddev	7.0	2.	8.2
%RSD	.17416	.00429	.14296
#1	4022.8	47602.	5749.9
#2	4012.9	47599.	5738.3

Sample Name: CCVH-1169743 Acquired: 12/14/2011 2:52:20 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00158**	**49.192**	**.00020**	**.00173**	**.00035**	**-.00012**	**.98335**	**-.00094**	**-.00078**	**.00092**	**.00030**	**-.00278**
Stddev	.00006	.071	.00178	.00031	.00030	.00003	.00138	.00151	.00003	.00018	.00017	.00007
%RSD	3.7224	.14481	870.15	17.695	87.267	23.682	.13992	159.87	3.7448	19.287	56.591	2.3394
#1	-.00163	49.142	.00147	.00151	.00013	-.00014	.98238	-.00201	-.00080	.00080	.00018	-.00273
#2	-.00154	49.242	-.00106	.00194	.00056	-.00010	.98432	.00012	-.00076	.00105	.00041	-.00283
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None
Value												
Range												

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.261**	**.21375**	**.00560**	**.00058**	**-.00158**	**-.00174**	**251.30**	**.00078**	**.00340**	**-.00165**	W **4.6581**	**-.00163**
Stddev	.054	.00664	.00021	.00138	.00004	.00020	.88	.00009	.00078	.00049	.0022	.00218
%RSD	.10944	3.1052	3.7393	237.50	2.7642	11.560	.34966	11.894	23.030	29.651	.04712	133.72
#1	49.223	.21845	.00575	-.00039	-.00161	-.00160	251.92	.00071	.00285	-.00199	4.6566	-.00317
#2	49.299	.20906	.00545	.00156	-.00155	-.00188	250.67	.00084	.00396	-.00130	4.6597	-.00009
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None	None	None	Chk Warn	None
Value											5.0000	
Range											-5.0000%	

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00307**	**.02132**	**.04563**	**.00259**	**.00044**	**4.8049**	**.00216**	**-.00354**	**9.8924**	**-.00060**	**.00147**	**-.01675**
Stddev	.00078	.00169	.00361	.00023	.00009	.0161	.00051	.00149	.0542	.00029	.00001	.00062
%RSD	25.289	7.9050	7.9050	8.8693	20.807	.33466	23.757	42.120	.54824	49.187	.46475	3.7139
#1	.00252	.02251	.04818	.00243	.00037	4.7935	.00252	-.00248	9.8541	-.00039	.00146	-.01719
#2	.00361	.02013	.04308	.00275	.00050	4.8162	.00180	-.00459	9.9308	-.00080	.00147	-.01631
Check ?	None	None	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value												
Range												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4048.3**	**47853.**	**5666.6**
Stddev	1.8	99.	16.1
%RSD	.04348	.20752	.28392
#1	4049.6	47923.	5655.2
#2	4047.1	47783.	5677.9

Sample Name: CCV-1169927 Acquired: 12/14/2011 2:54:41 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47248**	**.48813**	**.96035**	**.48467**	**.48119**	**.48851**	**.00144**	**4.8828**	**.49150**	**.49658**	**.49945**	**.48541**	**2.3506**
Stddev	.00140	.00352	.00844	.00026	.00332	.00136	.00243	.0322	.00062	.00006	.00056	.00256	.0090
%RSD	.29701	.72051	.87839	.05335	.69090	.27787	169.09	.65904	.12548	.01130	.11225	.52696	.38364
#1	.47148	.48564	.96631	.48449	.48354	.48947	.00315	4.9056	.49106	.49662	.49905	.48360	2.3570
#2	.47347	.49062	.95438	.48485	.47884	.48755	-.00028	4.8601	.49194	.49654	.49984	.48721	2.3443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.440**	**1.0148**	**19.341**	**.47476**	**.49451**	**5.1563**	**.49707**	**.96153**	**.95329**	**.01486**	**.97195**	**.92533**	**4.8303**
Stddev	.261	.0005	.033	.00048	.00179	.0327	.00042	.00188	.00169	.00526	.00116	.00450	.0018
%RSD	.51693	.04726	.16927	.10214	.36273	.63491	.08437	.19535	.17759	35.370	.11966	.48577	.03661
#1	50.624	1.0145	19.318	.47510	.49578	5.1795	.49678	.96286	.95209	.01858	.97278	.92215	4.8290
#2	50.256	1.0152	19.364	.47442	.49324	5.1332	.49737	.96020	.95449	.01114	.97113	.92851	4.8315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.337**	**.99563**	**.50410**	**.00067**	**.49723**	**.99040**	**-.01278**	**.47483**	**.48179**	**.47554**
Stddev	.004	.00151	.00110	.00073	.00065	.00336	.00806	.00005	.00126	.00455
%RSD	.03661	.15132	.21829	108.32	.13136	.33921	63.051	.01116	.26095	.95629
#1	10.334	.99457	.50488	.00119	.49677	.98802	-.01848	.47479	.48268	.47876
#2	10.339	.99670	.50332	.00016	.49770	.99277	-.00708	.47486	.48091	.47233
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4132.0**	**49172.**	**5655.7**
Stddev	8.8	14.	23.5
%RSD	.21387	.02873	.41599
#1	4138.3	49162.	5639.0
#2	4125.8	49182.	5672.3

Sample Name: CCB Acquired: 12/14/2011 2:56:53 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.00132**	**-.00096**	**.00024**	**.00001**	**.00004**	**-.00116**	**-.00316**	**.00012**	**.00019**	**.00007**	**-.00062**
Stddev	.00012	.00141	.00279	.00019	.00008	.00001	.00112	.00015	.00006	.00001	.00008	.00002
%RSD	48.168	107.04	289.49	77.489	770.06	36.818	96.794	4.9057	46.560	6.5188	119.19	2.7781
#1	-.00016	-.00231	-.00294	.00011	-.00004	.00003	-.00196	-.00327	.00016	.00020	.00001	-.00063
#2	-.00032	-.00032	.00101	.00037	.00006	.00005	-.00037	-.00305	.00008	.00019	.00013	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00259**	**.12696**	W **.00327**	**.00017**	**.00011**	**.00036**	W **.13511**	**-.00020**	**-.00137**	**.00109**	**.01892**	**.00169**
Stddev	.00144	.00044	.00012	.00115	.00001	.00020	.00036	.00001	.00037	.00052	.01280	.00123
%RSD	55.615	.34620	3.5886	684.37	11.863	56.495	.26947	3.5774	27.285	47.266	67.647	72.406
#1	.00157	.12665	.00319	-.00064	.00011	.00021	.13485	-.00019	-.00111	.00073	.00987	.00083
#2	.00361	.12727	.00335	.00098	.00010	.00050	.13537	-.00020	-.00164	.00146	.02797	.00256
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00261				.09160					
Low Limit			-.00261				-.09160					

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**-.00811**	**-.01736**	**-.00037**	**.00003**	**.00014**	**.00025**	**-.00038**	**-.00987**	**-.00011**	**.00182**	**.00092**
Stddev	.00341	.00366	.00783	.00005	.00006	.00163	.00005	.00000	.00319	.00030	.00006	.00126
%RSD	433.73	45.104	45.104	14.087	199.85	1202.3	20.480	.47610	32.355	280.32	3.2121	136.01
#1	.00162	-.01070	-.02290	-.00033	-.00001	.00129	.00022	-.00038	-.00761	-.00032	.00178	.00004
#2	-.00320	-.00553	-.01182	-.00040	.00007	-.00102	.00029	-.00038	-.01213	.00011	.00186	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4110.0**	**49707.**	**5573.0**
Stddev	2.7	55.	48.6
%RSD	.06593	.10976	.87266
#1	4108.1	49669.	5538.7
#2	4111.9	49746.	5607.4

Sample Name: CCVL1171013 Acquired: 12/14/2011 2:59:18 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .00628	F .05944	F .00793	.10144	F .00596	F .00062	F .06724	F .11682	F .00295	F .00652	F .00625	F .00875	F .05882
Stddev	.00007	.00125	.00032	.00068	.00008	.00006	.00274	.00064	.00004	.00031	.00008	.00001	.00123
%RSD	1.1573	2.0990	4.0691	.66624	1.4135	9.3812	4.0704	.55170	1.4287	4.7214	1.2851	.16015	2.0854
#1	.00633	.05855	.00816	.10096	.00602	.00066	.06917	.11637	.00292	.00631	.00619	.00874	.05969
#2	.00623	.06032	.00771	.10192	.00590	.00058	.06530	.11728	.00298	.00674	.00631	.00876	.05795
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.01000	.10000	.01500		.01000	.00100	.10000	.20000	.00500	.01000	.01000	.01500	.10000
Range	-30.000%	-30.000%	-30.000%		-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%	-30.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.9555	.00957	F .12039	F .00608	.02003	.73525	F .02446	3.0185	F .00452	.02060	.00850	F .00816	.49848
Stddev	.0201	.00063	.00045	.00000	.00034	.01123	.00016	.0117	.00104	.00406	.00127	.00237	.00636
%RSD	1.0260	6.5551	.37520	.04844	1.6772	1.5270	.66856	.38750	23.025	19.723	14.975	29.023	1.2758
#1	1.9696	.01001	.12071	.00608	.01979	.72731	.02458	3.0102	.00526	.02347	.00940	.00649	.50298
#2	1.9413	.00913	.12007	.00608	.02027	.74318	.02435	3.0267	.00379	.01772	.00760	.00984	.49398
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	None	Chk Pass	Chk Fail	Chk Pass
Value	3.0000		.20000	.01000			.04000		.00900			.01500	
Range	-30.000%		-30.000%	-30.000%			-30.000%		-30.000%			-30.000%	

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0667	.10454	F .00624	F .00871	.01034	F .01019	F .02214	F .00567	F .01360	.01683
Stddev	.0136	.00041	.00005	.00029	.00037	.00030	.00229	.00020	.00039	.00115
%RSD	1.2758	.39683	.78633	3.3750	3.5329	2.9301	10.326	3.5003	2.8721	6.8614
#1	1.0764	.10483	.00621	.00850	.01060	.00998	.02376	.00581	.01388	.01601
#2	1.0571	.10425	.00628	.00891	.01008	.01040	.02052	.00553	.01332	.01764
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
Value			.01000	.01500		.01500	.06000	.01000	.02000	
Range			-30.000%	-30.000%		-30.000%	-30.000%	-30.000%	-30.000%	

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	4216.4	51024.	5723.9
Stddev	19.3	121.	12.3
%RSD	.45816	.23694	.21550
#1	4230.1	51109.	5732.7
#2	4202.8	50938.	5715.2

Sample Name: 23463-6 Acquired: 12/14/2011 3:01:41 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: Fe DQR

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.02107**	**-.00012**	**1.8312**	**.92460**	**.00001**	**.00977**	W **771.00**	**.00057**	**-.00052**
Stddev	.00049	.00096	.00170	.0068	.00167	.00001	.00200	9.59	.00011	.00028
%RSD	9074.0	4.5644	1408.3	.37325	.18038	104.32	20.471	1.2433	19.974	54.692
#1	.00035	.02176	-.00133	1.8361	.92578	.00002	.00836	777.77	.00049	-.00032
#2	-.00034	.02039	.00108	1.8264	.92342	.00000	.01119	764.22	.00065	-.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								500.00		
Low Limit								-.05000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00261**	**.00037**	**7.6194**	W **218.77**	**.08255**	**375.32**	**1.6619**	**-.00016**	W **8448.1**	**.00045**
Stddev	.00016	.00007	.0180	.06	.00146	3.14	.0023	.00010	13.8	.00044
%RSD	6.3119	18.558	.23618	.02677	1.7660	.83641	.13605	63.753	.16303	97.601
#1	.00272	.00032	7.6321	218.81	.08152	373.10	1.6603	-.00009	8457.8	.00076
#2	.00249	.00041	7.6067	218.72	.08359	377.54	1.6635	-.00024	8438.3	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit				100.00					500.00	
Low Limit				-.50000					10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **5.0151**	**-.00025**	**1.5325**	W **-.01039**	**.00673**	**29.999**	**64.198**	**-.00334**	W **9.0500**	**-.00156**
Stddev	.0552	.00225	.0410	.00049	.01113	.089	.190	.00017	.1395	.00493
%RSD	1.1010	917.11	2.6772	4.7531	165.33	.29662	.29662	5.2334	1.5414	315.80
#1	5.0542	-.00184	1.5615	-.01004	.01460	30.062	64.333	-.00346	9.1486	-.00505
#2	4.9761	.00135	1.5035	-.01074	-.00114	29.936	64.063	-.00321	8.9513	.00192
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit	2.0000			2.0000					5.0000	
Low Limit	-1.0000			-.01000					-.01000	

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00569**	**.00257**	W **-.06062**	**.00195**	**.00394**	**.00136**
Stddev	.00014	.00151	.00219	.00051	.00006	.00134
%RSD	2.3885	58.842	3.6043	26.320	1.5591	98.663
#1	.00578	.00364	-.06217	.00159	.00390	.00231
#2	.00559	.00150	-.05908	.00232	.00399	.00041
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit			45.000			
Low Limit			-.05000			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**2968.9**	**34488.**	**5176.4**
Stddev	7.0	123.	8.7
%RSD	.23530	.35794	.16812
#1	2973.8	34575.	5170.3
#2	2963.9	34401.	5182.6

Sample Name: 23419-1 Acquired: 12/14/2011 3:04:32 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: DQR

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	W **-.07538**	**.00856**	**3.3337**	**.02626**	**-.00001**	**.00647**	**338.79**	**.00045**	**.00167**
Stddev	.00006	.00112	.00073	.0089	.00005	.00004	.00228	2.61	.00001	.00012
%RSD	47.093	1.4805	8.4911	.26658	.17667	308.02	35.253	.76892	2.2790	7.2948
#1	-.00017	-.07459	.00805	3.3399	.02629	.00001	.00486	340.63	.00045	.00158
#2	-.00008	-.07617	.00907	3.3274	.02623	-.00004	.00809	336.95	.00046	.00176
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2.5000								
Low Limit		-.05000								

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00238**	**.01868**	**.01214**	**32.160**	**.34110**	W **773.75**	**.19314**	**.06647**	W **2817.2**	**.05743**
Stddev	.00002	.00004	.00235	.070	.00137	5.73	.00032	.00097	6.1	.00027
%RSD	1.0452	.20239	19.328	.21802	.40264	.74042	.16706	1.4639	.21786	.46255
#1	.00236	.01866	.01379	32.210	.34013	777.80	.19337	.06716	2821.5	.05724
#2	.00239	.01871	.01048	32.111	.34207	769.70	.19291	.06578	2812.8	.05761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						500.00			500.00	
Low Limit						-.10000			10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46368**	**.00137**	F **1933.2**	**-.00611**	**.29742**	**12.805**	**27.402**	**-.00287**	**4.3119**	**-.00529**
Stddev	.01760	.00057	9.3	.00155	.00760	.015	.032	.00076	.0026	.00069
%RSD	3.7956	41.343	.48010	25.341	2.5545	.11557	.11557	26.350	.06012	12.961
#1	.47612	.00097	1939.7	-.00502	.30280	12.815	27.424	-.00341	4.3137	-.00577
#2	.45123	.00177	1926.6	-.00721	.29205	12.794	27.379	-.00234	4.3100	-.00480
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			200.00							
Low Limit			-.20000							

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00290**	**.02506**	**.01384**	**.02337**	**.00171**
Stddev	.00015	.00079	.03276	.00054	.00013	.00001
%RSD	46.342	27.204	130.71	3.8723	.55803	.79426
#1	.00042	.00234	.04822	.01422	.02328	.00170
#2	.00021	.00345	.00190	.01346	.02346	.00172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**3375.7**	**38698.**	**5442.9**
Stddev	6.7	29.	10.7
%RSD	.19734	.07592	.19744
#1	3371.0	38677.	5450.5
#2	3380.4	38719.	5435.3

Sample Name: CCVH-1169743 Acquired: 12/14/2011 8:02:26 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**48.165**	**-.00045**	**-.00013**	**.00043**	**-.00011**	**.98484**	**-.00056**	**-.00088**	**.00098**	**.00046**	**-.00072**	**48.239**
Stddev	.00039	.018	.00088	.00004	.00018	.00006	.00360	.00278	.00003	.00022	.00020	.00009	.015
%RSD	69.173	.03789	194.12	31.327	42.590	50.135	.36537	493.39	2.9430	22.347	42.546	11.815	.03138
#1	-.00029	48.178	-.00107	-.00015	.00056	-.00007	.98230	.00140	-.00086	.00083	.00060	-.00066	48.250
#2	-.00083	48.152	.00017	-.00010	.00030	-.00015	.98739	-.00253	-.00090	.00114	.00032	-.00078	48.229
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02457**	**.00226**	**-.00256**	**-.00147**	**-.00194**	**247.18**	**.00077**	**.00119**	**-.00034**	**4.8967**	**-.00221**	**.00241**	**.01596**
Stddev	.01050	.00048	.00147	.00002	.00019	.42	.00010	.00026	.00129	.0163	.00106	.00349	.01397
%RSD	42.732	21.204	57.310	1.4784	9.8255	.17100	12.633	21.873	383.34	.33379	47.985	144.86	87.552
#1	.01715	.00192	-.00360	-.00149	-.00208	247.48	.00084	.00101	.00058	4.9083	-.00296	-.00006	.00608
#2	.03199	.00260	-.00152	-.00145	-.00181	246.88	.00071	.00138	-.00125	4.8852	-.00146	.00488	.02584
Check ?	None	None	None	None	None	Chk Pass	None	None	None	Chk Pass	None	None	None
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03415**	**.00115**	**.00036**	**4.8144**	**.00108**	**-.00341**	**10.023**	**-.00041**	**.00138**	**-.00969**
Stddev	.02990	.00079	.00003	.0316	.00001	.00148	.054	.00001	.00054	.00095
%RSD	87.552	68.556	7.1449	.65621	.93271	43.329	.53860	2.9137	39.427	9.8222
#1	.01301	.00059	.00034	4.7920	.00107	-.00236	9.9845	-.00040	.00099	-.00902
#2	.05529	.00171	.00038	4.8367	.00109	-.00445	10.061	-.00042	.00176	-.01036
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4019.6**	**48648.**	**5585.7**
Stddev	5.8	392.	3.3
%RSD	.14484	.80547	.05985
#1	4015.5	48926.	5583.3
#2	4023.7	48371.	5588.0

Sample Name: CCV-1169927 Acquired: 12/14/2011 8:04:47 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48961**	**.50736**	**.98225**	**.48950**	**.50217**	**.48919**	**.00255**	**4.9244**	**.49322**	**.49627**	**.49753**	**.49221**	**2.4463**
Stddev	.00034	.00609	.00118	.00276	.00364	.00103	.00087	.0290	.00157	.00084	.00079	.00035	.0115
%RSD	.06919	1.2011	.12008	.56447	.72553	.21081	34.257	.58803	.31803	.16860	.15945	.07160	.47096
#1	.48985	.50305	.98308	.48754	.49960	.48846	.00316	4.9039	.49212	.49567	.49697	.49196	2.4381
#2	.48937	.51167	.98141	.49145	.50475	.48992	.00193	4.9449	.49433	.49686	.49809	.49246	2.4544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.700**	**1.0217**	**19.409**	**.48554**	**.49411**	**5.1115**	**.49793**	**.97760**	**.99053**	**.00045**	**.98547**	**.96885**	**4.8916**
Stddev	.476	.0050	.002	.00006	.00181	.0219	.00245	.00726	.00176	.00075	.00174	.00912	.0398
%RSD	.93968	.49245	.01145	.01238	.36659	.42769	.49136	.74305	.17777	166.04	.17615	.94128	.81263
#1	50.363	1.0181	19.411	.48550	.49283	5.0961	.49620	.97247	.98929	.00098	.98425	.96240	4.8635
#2	51.037	1.0252	19.408	.48558	.49539	5.1270	.49966	.98274	.99178	-.00008	.98670	.97530	4.9197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.468**	**.99114**	**.50149**	**.00033**	**.48699**	**.99806**	**-.02995**	**.48185**	**.48279**	**.49091**
Stddev	.085	.00029	.00259	.00065	.00034	.00528	.03252	.00144	.00098	.00288
%RSD	.81263	.02880	.51638	196.05	.07002	.52870	108.57	.29987	.20287	.58663
#1	10.408	.99134	.49966	.00079	.48675	.99433	-.00696	.48083	.48349	.48888
#2	10.528	.99094	.50332	-.00013	.48723	1.0018	-.05295	.48287	.48210	.49295
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4085.2**	**49551.**	**5557.3**
Stddev	26.2	116.	44.5
%RSD	.64168	.23447	.80080
#1	4103.8	49469.	5588.7
#2	4066.7	49634.	5525.8

Sample Name: CCB Acquired: 12/14/2011 8:06:58 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00187**	**-.00196**	**-.00067**	**-.00003**	**.00004**	**-.00070**	**-.00382**	**.00012**	**.00007**	**.00012**	**-.00041**
Stddev	.00037	.00267	.00084	.00051	.00021	.00003	.00208	.00208	.00010	.00016	.00016	.00027
%RSD	149.08	142.62	42.731	76.315	629.57	70.285	296.36	54.399	86.956	227.72	138.97	66.799
#1	-.00051	.00377	-.00255	-.00031	-.00018	.00002	.00077	-.00529	.00019	-.00004	.00023	-.00022
#2	.00001	-.00002	-.00137	-.00104	.00011	.00006	-.00218	-.00235	.00005	.00019	.00000	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00132**	**.07595**	W **.00264**	**-.00096**	**.00005**	**.00033**	**.04762**	**-.00013**	**-.00186**	**-.00025**	**.00566**	**.00006**
Stddev	.00082	.01925	.00042	.00353	.00007	.00009	.01180	.00014	.00064	.00212	.00136	.00087
%RSD	62.469	25.352	16.045	369.26	147.13	26.521	24.788	105.79	34.579	862.41	23.996	1417.3
#1	.00190	.06233	.00294	-.00345	.00010	.00027	.05596	-.00003	-.00232	.00125	.00662	.00068
#2	.00074	.08957	.00234	.00154	.00000	.00039	.03927	-.00023	-.00141	-.00175	.00470	-.00055
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00261									
Low Limit			-.00261									

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00134**	**-.01133**	**-.02426**	**-.00061**	**-.00003**	**-.00013**	**.00016**	**-.00017**	**-.00323**	**.00006**	**.00136**	**.00099**
Stddev	.00083	.00564	.01206	.00065	.00004	.00020	.00031	.00058	.01917	.00004	.00021	.00035
%RSD	62.276	49.719	49.719	106.91	112.32	146.78	191.24	335.11	593.00	68.812	15.494	35.213
#1	.00193	-.01532	-.03278	-.00107	-.00006	.00001	-.00006	.00024	.01032	.00003	.00121	.00074
#2	.00075	-.00735	-.01573	-.00015	-.00001	-.00027	.00038	-.00058	-.01679	.00009	.00151	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4082.8**	**50189.**	**5474.8**
Stddev	7.1	213.	9.7
%RSD	.17277	.42408	.17672
#1	4077.8	50340.	5468.0
#2	4087.8	50039.	5481.7

Sample Name: CCVL1171013 Acquired: 12/14/2011 8:09:24 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01025**	**.10360**	**.01597**	**.10546**	**.01039**	**.00100**	**.11409**	**.19951**	**.00517**	**.01061**	**.01013**	**.01516**	**.10170**	**3.1936**
Stddev	.00045	.00004	.00036	.00003	.00007	.00002	.00021	.00245	.00000	.00013	.00009	.00001	.00419	.0290
%RSD	4.3500	.03559	2.2539	.03075	.69765	1.5228	.18210	1.2296	.04906	1.2258	.91772	.04850	4.1224	.90936
#1	.00994	.10363	.01622	.10548	.01044	.00099	.11394	.19777	.00518	.01070	.01019	.01516	.10467	3.2142
#2	.01057	.10357	.01571	.10544	.01034	.00101	.11423	.20124	.00517	.01052	.01006	.01515	.09874	3.1731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01169**	**.20676**	**.01017**	**.02055**	**1.1289**	**.04154**	**3.1216**	**.00877**	**.00549**	**.00780**	**.01480**	**.50264**	**1.0756**	**.10611**
Stddev	.00155	.00048	.00002	.00026	.0106	.00002	.0164	.00040	.00523	.00000	.00400	.00633	.0136	.00246
%RSD	13.289	.23338	.19777	1.2689	.93765	.05238	.52692	4.6107	95.172	.01603	27.051	1.2601	1.2601	2.3162
#1	.01059	.20642	.01018	.02073	1.1364	.04156	3.1332	.00906	.00180	.00780	.01197	.50711	1.0852	.10784
#2	.01279	.20711	.01016	.02036	1.1214	.04153	3.1100	.00849	.00919	.00780	.01763	.49816	1.0661	.10437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01031**	**.01459**	**.01056**	**.01729**	**.04950**	**.00983**	**.02114**	**.01588**
Stddev	.00011	.00163	.00031	.00077	.02890	.00004	.00022	.00073
%RSD	1.0403	11.193	2.9053	4.4587	58.382	.44972	1.0207	4.6228
#1	.01038	.01343	.01078	.01784	.06993	.00980	.02130	.01536
#2	.01023	.01574	.01034	.01675	.02906	.00986	.02099	.01640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4209.1**	**51695.**	**5680.4**
Stddev	4.8	83.	4.6
%RSD	.11506	.16054	.08171
#1	4205.7	51754.	5683.7
#2	4212.5	51636.	5677.1

Sample Name: 280-23648-a-1-a@20 Acquired: 12/14/2011 8:11:47 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	W **2.9221**	**.01093**	**.01032**	**.04866**	**.00016**	F **.34033**	**30.036**	W **9.3668**	**.00264**
Stddev	.00018	.0140	.00131	.00020	.00058	.00006	.00113	.091	.0079	.00013
%RSD	792.83	.47752	11.992	1.9522	1.2007	40.102	.33170	.30352	.08413	4.9312
#1	-.00011	2.9122	.01186	.01046	.04908	.00020	.33953	30.101	9.3723	.00254
#2	.00015	2.9319	.01000	.01017	.04825	.00011	.34113	29.972	9.3612	.00273
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Warn	Chk Pass
High Limit		500.00					.10000		2.0000	
Low Limit		3.2000					-.10000		-.00500	

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00620**	**.04482**	**4.3309**	**3.3887**	**.00706**	**1.4641**	**.08152**	**.00206**	**6.1383**	**.00807**
Stddev	.00000	.00016	.0069	.0006	.00033	.0001	.00036	.00001	.0194	.00025
%RSD	.03923	.35888	.15966	.01730	4.7353	.00684	.43756	.49329	.31648	3.1129
#1	.00620	.04470	4.3358	3.3891	.00730	1.4642	.08127	.00206	6.1520	.00789
#2	.00620	.04493	4.3260	3.3883	.00683	1.4641	.08177	.00205	6.1246	.00825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18615**	**.28716**	**10.495**	**-.00173**	**.18953**	**.19541**	**.41818**	**.00117**	**.11541**	**.00131**
Stddev	.00256	.00034	.045	.00051	.00740	.00249	.00534	.00001	.00038	.00034
%RSD	1.3778	.12007	.43034	29.530	3.9048	1.2759	1.2759	1.2691	.32621	26.089
#1	.18796	.28692	10.527	-.00137	.19476	.19717	.42195	.00116	.11568	.00155
#2	.18433	.28740	10.463	-.00209	.18430	.19365	.41440	.00118	.11514	.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13832**	**.04598**	**-.03880**	**.03782**	**.29713**	**.00535**
Stddev	.00091	.00137	.00159	.00055	.00103	.00005
%RSD	.66128	2.9726	4.0967	1.4625	.34823	1.0151
#1	.13767	.04694	-.03993	.03822	.29640	.00539
#2	.13897	.04501	-.03768	.03743	.29786	.00532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4097.6**	**49921.**	**5665.8**
Stddev	8.1	19.	7.4
%RSD	.19875	.03722	.12983
#1	4103.3	49934.	5660.6
#2	4091.8	49908.	5671.0

Sample Name: 23648-a-1-aSD@100 Acquired: 12/14/2011 8:14:05 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.57147**	**.00130**	**.00128**	**.00982**	**.00008**	W **.07005**	**6.1064**	**1.8896**	**.00059**
Stddev	.00006	.00028	.00456	.00044	.00009	.00002	.00008	.0309	.0041	.00019
%RSD	313.69	.04938	350.59	34.226	.94231	32.359	.10955	.50536	.21846	32.331
#1	-.00002	.57167	-.00192	.00159	.00989	.00009	.07010	6.1282	1.8867	.00073
#2	.00006	.57127	.00453	.00097	.00976	.00006	.06999	6.0846	1.8926	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit							.05000			
Low Limit							-.05000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**.00861**	**.87229**	**.69093**	**.00250**	**.29883**	**.01659**	**.00049**	**1.2682**	**.00149**
Stddev	.00007	.00015	.00276	.03266	.00045	.00060	.00014	.00018	.0009	.00027
%RSD	5.7963	1.6999	.31624	4.7265	18.116	.20138	.87146	36.293	.07282	18.216
#1	.00123	.00872	.87033	.71402	.00283	.29841	.01648	.00036	1.2676	.00168
#2	.00134	.00851	.87424	.66784	.00218	.29926	.01669	.00061	1.2689	.00130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03478**	**.05825**	**2.0539**	**-.00007**	**.03914**	**.03247**	**.06950**	**-.00019**	**.02311**	**.00045**
Stddev	.00225	.00026	.0012	.00017	.00136	.00484	.01036	.00009	.00004	.00040
%RSD	6.4579	.44578	.05622	244.52	3.4868	14.905	14.905	49.484	.15343	88.921
#1	.03637	.05843	2.0547	-.00019	.03818	.02905	.06217	-.00026	.02313	.00017
#2	.03319	.05806	2.0531	.00005	.04011	.03590	.07682	-.00012	.02308	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02737**	**.01011**	**-.01271**	**.00734**	**.06202**	**.00340**
Stddev	.00004	.00130	.01267	.00004	.00035	.00016
%RSD	.16368	12.837	99.656	.51082	.56909	4.7540
#1	.02740	.01102	-.00375	.00736	.06177	.00328
#2	.02734	.00919	-.02167	.00731	.06227	.00351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4147.5**	**50524.**	**5611.6**
Stddev	3.0	7.	26.7
%RSD	.07288	.01426	.47668
#1	4149.7	50529.	5592.6
#2	4145.4	50519.	5630.5

Sample Name: 280-23648-a-1-bms@20 Acquired: 12/14/2011 8:16:27 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00295**	**3.5301**	**.06137**	**.05638**	**.17628**	**.00256**	F **.33958**	**28.165**	W **9.1178**	**.02699**
Stddev	.00003	.0076	.00031	.00013	.00175	.00012	.00004	.269	.0049	.00039
%RSD	1.1033	.21652	.49988	.23924	.99217	4.6379	.01216	.95624	.05371	1.4569
#1	.00292	3.5356	.06159	.05628	.17505	.00248	.33961	27.975	9.1144	.02671
#2	.00297	3.5247	.06115	.05647	.17752	.00265	.33955	28.355	9.1213	.02727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Warn	Chk Pass
High Limit							.10000		2.0000	
Low Limit							-.10000		-.00500	

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01617**	**.06141**	**4.6167**	**6.6014**	**.05767**	**4.0030**	**.18389**	**.05058**	**9.2567**	**10.134**
Stddev	.00018	.00003	.0458	.0553	.00104	.0057	.00007	.00020	.0728	.080
%RSD	1.1397	.05194	.99271	.83706	1.8094	.14317	.03669	.39437	.78642	.78635
#1	.01630	.06144	4.5843	6.5623	.05693	3.9990	.18384	.05044	9.2053	10.190
#2	.01604	.06139	4.6491	6.6405	.05841	4.0071	.18393	.05072	9.3082	10.078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03185**	**.65402**	**.46510**	**10.872**	**.01845**	**.22631**	**.25017**	**.53536**	**.09894**	**.15684**
Stddev	.00022	.00255	.00072	.028	.00072	.00351	.01191	.02549	.00027	.00156
%RSD	.69310	.39037	.15473	.25715	3.9138	1.5493	4.7603	4.7603	.27220	.99416
#1	.03201	.65582	.46561	10.852	.01794	.22878	.24175	.51734	.09913	.15574
#2	.03170	.65221	.46459	10.892	.01896	.22383	.25859	.55338	.09875	.15794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	283.730 {119}	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05145**	**.19508**	**.13209**	**.08891**	**.05631**	**.76270**	**.03032**
Stddev	.00009	.00054	.00010	.00525	.00030	.00080	.00051
%RSD	.17846	.27538	.07698	5.9040	.53147	.10548	1.6957
#1	.05152	.19470	.13216	.09262	.05610	.76327	.03068
#2	.05139	.19546	.13202	.08520	.05652	.76213	.02995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4129.6**	**49919.**	**5638.5**
Stddev	7.8	66.	39.3
%RSD	.18920	.13285	.69712
#1	4135.1	49965.	5666.3
#2	4124.0	49872.	5610.7

Sample Name: 23648-a-1-c msd@20 Acquired: 12/14/2011 8:18:44 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00295**	**3.9238**	**.06612**	**.05975**	**.17181**	**.00247**	F **.56011**	**31.772**	W **13.509**	**.02696**
Stddev	.00028	.0217	.00101	.00003	.00025	.00010	.00264	.219	.032	.00008
%RSD	9.3748	.55248	1.5226	.05787	.14339	4.1639	.47174	.68881	.23756	.28071
#1	.00315	3.9391	.06683	.05973	.17199	.00240	.55824	31.927	13.531	.02701
#2	.00276	3.9085	.06541	.05978	.17164	.00254	.56198	31.618	13.486	.02690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Warn	Chk Pass
High Limit							.10000		2.0000	
Low Limit							-.10000		-.00500	

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01776**	**.11443**	**4.5347**	**6.9697**	**.05754**	**4.0367**	**.12034**	**.05086**	**12.427**	**.03622**
Stddev	.00004	.00039	.0181	.0422	.00206	.0230	.00033	.00006	.052	.00023
%RSD	.20328	.34040	.40001	.60581	3.5882	.57004	.27748	.11794	.41848	.63581
#1	.01773	.11416	4.5475	6.9996	.05608	4.0204	.12011	.05090	12.464	.03606
#2	.01778	.11471	4.5219	6.9399	.05900	4.0530	.12058	.05082	12.391	.03639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.72424**	**.94716**	**14.531**	**.01830**	**.34082**	**.29076**	**.62222**	**.10388**	**.17322**	**.04817**
Stddev	.00282	.00222	.043	.00080	.00178	.00195	.00418	.00018	.00049	.00071
%RSD	.38879	.23479	.29427	4.3916	.52285	.67188	.67188	.17701	.28393	1.4824
#1	.72623	.94874	14.561	.01773	.34208	.28938	.61926	.10375	.17356	.04766
#2	.72225	.94559	14.501	.01887	.33956	.29214	.62518	.10401	.17287	.04867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20350**	**.15030**	**.09597**	**.06216**	**1.0080**	**.03060**
Stddev	.00023	.00123	.01463	.00016	.0056	.00110
%RSD	.11391	.81819	15.239	.26324	.55158	3.5971
#1	.20334	.15117	.10632	.06204	1.0041	.03138
#2	.20366	.14943	.08563	.06227	1.0119	.02982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4105.6**	**49910.**	**5614.9**
Stddev	.2	272.	67.9
%RSD	.00527	.54582	1.2098
#1	4105.5	50103.	5566.9
#2	4105.8	49718.	5662.9

Sample Name: 280-23648-a-2-a@10 Acquired: 12/14/2011 8:21:01 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.10378**	**.14120**	**-.01000**	**.01257**	**.00007**	F **.38985**	**.99118**	**.07366**	**.17394**
Stddev	.00035	.02674	.00326	.00017	.00009	.00001	.00285	.01832	.00019	.00080
%RSD	63.310	25.766	2.3097	1.7168	.67810	12.807	.72981	1.8482	.26105	.45965
#1	.00030	.08487	.13889	-.00988	.01251	.00007	.38784	1.0041	.07352	.17337
#2	.00080	.12269	.14350	-.01012	.01263	.00008	.39186	.97823	.07380	.17450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.10000			
Low Limit							-.10000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41753**	**1.1884**	W **1019.7**	**-.32135**	**.00089**	W **-.11365**	**6.6151**	**.02825**	**.10765**	**.88456**
Stddev	.00220	.0085	16.8	.01936	.00137	.00017	.0442	.00012	.00091	.00469
%RSD	.52698	.71349	1.6508	6.0255	153.11	.15236	.66860	.41861	.84849	.53059
#1	.41598	1.1824	1031.6	-.33505	-.00007	-.11378	6.5839	.02834	.10829	.88125
#2	.41909	1.1944	1007.8	-.30766	.00186	-.11353	6.6464	.02817	.10700	.88788
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			500.00			500.00				
Low Limit			40.000			-.10000				

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10199**	**.07705**	**.09124**	**.02069**	**.21044**	**.72532**	**1.5522**	**.12711**	**.00173**	**.00412**
Stddev	.00021	.00235	.00391	.00029	.00187	.01064	.0228	.00001	.00001	.01586
%RSD	.20674	3.0451	4.2863	1.3801	.88930	1.4666	1.4666	.00661	.37703	385.22
#1	.10214	.07871	.08848	.02049	.20912	.73284	1.5683	.12711	.00172	-.00710
#2	.10184	.07539	.09401	.02089	.21176	.71780	1.5361	.12712	.00173	.01533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02287**	**-.00058**	F **-.12518**	**.02482**	**.11242**	F **-.03560**
Stddev	.00025	.00017	.00620	.00002	.00002	.00164
%RSD	1.1071	30.243	4.9492	.08583	.02216	4.6020
#1	.02269	-.00070	-.12080	.02483	.11244	-.03444
#2	.02304	-.00045	-.12956	.02480	.11240	-.03676
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit			50.000			50.000
Low Limit			-.10000			-.02000

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4025.0**	**48047.**	**5550.2**
Stddev	13.6	273.	67.1
%RSD	.33678	.56799	1.2090
#1	4034.5	48240.	5502.8
#2	4015.4	47854.	5597.7

Sample Name: 280-23648-a-2-a@50 Acquired: 12/14/2011 8:23:30 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	.03908	.02654	-.00384	.00243	.00008	W .07897	.16313	.01456	.03558
Stddev	.00028	.00174	.00473	.00005	.00003	.00006	.00281	.00413	.00011	.00015
%RSD	449.98	4.4476	17.811	1.2596	1.2863	75.568	3.5636	2.5314	.76650	.41910
#1	.00026	.04031	.02320	-.00381	.00241	.00012	.07698	.16605	.01449	.03547
#2	-.00014	.03785	.02988	-.00388	.00246	.00004	.08096	.16021	.01464	.03568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit							.05000			
Low Limit							-.05000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08324	.23322	202.78	-.02172	.00157	-.02195	1.3696	.00566	.03054	.18094
Stddev	.00042	.00205	.81	.04756	.00098	.00288	.0127	.00019	.00608	.00014
%RSD	.50083	.87970	.39777	218.99	62.211	13.125	.92686	3.2832	19.895	.07970
#1	.08294	.23467	203.35	-.05535	.00226	-.02399	1.3785	.00579	.02624	.18084
#2	.08353	.23177	202.20	.01191	.00088	-.01991	1.3606	.00553	.03483	.18104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01799	.01704	.02991	.00236	.04127	.13566	.29032	.02579	.00028	.00358
Stddev	.00091	.00139	.00783	.00031	.00069	.00322	.00688	.00169	.00007	.00219
%RSD	5.0408	8.1827	26.191	13.163	1.6836	2.3713	2.3713	6.5604	24.733	61.251
#1	.01863	.01605	.03545	.00214	.04176	.13339	.28545	.02459	.00023	.00512
#2	.01735	.01802	.02437	.00258	.04078	.13794	.29519	.02698	.00032	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00429	.00099	-.04320	.00500	.02506	-.00657
Stddev	.00015	.00192	.02262	.00028	.00070	.00148
%RSD	3.4314	194.23	52.349	5.6559	2.7826	22.593
#1	.00440	-.00037	-.05920	.00480	.02555	-.00552
#2	.00419	.00234	-.02721	.00520	.02457	-.00762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	4156.3	50115.	5649.8
Stddev	15.6	152.	22.7
%RSD	.37514	.30403	.40197
#1	4167.3	50007.	5665.8
#2	4145.3	50223.	5633.7

Sample Name: 280-23648-a-3-a@10 Acquired: 12/14/2011 8:25:50 Type: Unk
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment: 99637 SOIL 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00006**	**1.9387**	**.13950**	**-.00588**	k **.00411**	k **.00006**	**.02440**	k **.13705**	k **.04171**	k **.09205**
Stddev	.00026	.0293	.00482	.00028	.00008	.00000	.00094	.00115	.00014	.00095
%RSD	418.07	1.5111	3.4577	4.7428	1.9122	.06812	3.8598	.83986	.33244	1.0302
#1	k .00012	1.9180	.13609	-.00608	k .00416	k .00006	.02373	k .13786	k .04162	k .09138
#2	k -.00024	1.9594	.14291	-.00568	k .00405	k .00006	.02507	k .13623	k .04181	k .09272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.20861**	k **.50993**	W **790.14**	**-.20600**	**.00085**	k **-.08436**	k **4.9766**	**.01286**	**.11323**	**.64205**
Stddev	.00103	.00013	4.00	.03846	.00146	.00269	.0138	.00030	.00759	.00484
%RSD	.49360	.02536	.50634	18.671	170.53	3.1830	.27805	2.2972	6.7065	.75457
#1	k .20788	k .51002	792.97	-.17881	.00188	k -.08626	k 4.9668	.01265	.11860	.63862
#2	k .20934	k .50984	787.31	-.23320	-.00018	k -.08246	k 4.9864	.01307	.10786	.64547
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			500.00							
Low Limit			40.000							

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05360**	k **.03118**	k **.35184**	k **.02040**	k **.01209**	k **.69668**	k **1.4909**	**.04057**	**.00091**	k **.00673**
Stddev	.00137	.00119	.00192	.00194	.00181	.01086	.0232	.00129	.00008	.00280
%RSD	2.5629	3.8204	.54675	9.5031	15.002	1.5589	1.5589	3.1784	8.7953	41.683
#1	.05457	k .03034	k .35048	k .02177	k .01081	k .70436	k 1.5073	.03966	.00097	k .00474
#2	.05263	k .03203	k .35320	k .01903	k .01338	k .68900	k 1.4745	.04148	.00085	k .00871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.01354**	k **-.00163**	kW **-.09578**	k **.01123**	k **.04123**	kF **-.02714**
Stddev	.00003	.00213	.01477	.00080	.00006	.00112
%RSD	.23754	130.85	15.425	7.1129	.15165	4.1224
#1	k .01356	k -.00012	k -.10623	k .01067	k .04119	k -.02794
#2	k .01352	k -.00313	k -.08533	k .01180	k .04128	k -.02635
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Fail
High Limit			45.000			50.000
Low Limit			-.05000			-.02000

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4063.0**	**48359.**	**5583.3**
Stddev	21.2	140.	25.4
%RSD	.52110	.28862	.45427
#1	4077.9	48458.	5565.4
#2	4048.0	48261.	5601.2

Sample Name: CCVH-1169743 Acquired: 12/14/2011 8:28:20 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**48.132**	**-.00344**	**-.00017**	**.00040**	**-.00008**	**.97113**	**-.00041**	**-.00058**	**.00095**	**.00048**	**-.00214**
Stddev	.00011	.329	.00169	.00026	.00022	.00005	.00229	.00161	.00005	.00010	.00002	.00033
%RSD	17.937	.68332	49.266	151.62	55.292	71.510	.23602	392.75	8.2000	10.778	5.1480	15.554
#1	-.00067	47.900	-.00224	-.00036	.00056	-.00004	.97275	.00073	-.00061	.00102	.00050	-.00190
#2	-.00052	48.365	-.00464	.00001	.00025	-.00012	.96951	-.00155	-.00054	.00088	.00046	-.00237
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None
Value												
Range												

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.311**	**.01616**	**.00228**	**-.00485**	**-.00138**	**-.00176**	**246.46**	**.00096**	**.00083**	**-.00096**	W **4.6809**	**-.00191**
Stddev	.450	.04127	.00046	.00145	.00003	.00044	.50	.00016	.00047	.00032	.0021	.00167
%RSD	.93244	255.36	19.966	29.799	1.9254	24.948	.20155	16.758	57.065	33.540	.04569	87.434
#1	47.993	-.01302	.00196	-.00588	-.00140	-.00145	246.11	.00084	.00049	-.00119	4.6824	-.00309
#2	48.630	.04535	.00260	-.00383	-.00136	-.00207	246.81	.00107	.00116	-.00073	4.6794	-.00073
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None	None	None	Chk Warn	None
Value											5.0000	
Range											-5.0000%	

Elem	Se1960	Si2881	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00361**	**.00906**	**.01938**	**.00199**	**.00037**	**4.7679**	**.00182**	**-.00384**	**9.8300**	**-.00037**	**.00182**	**-.01307**
Stddev	.00284	.00106	.00227	.00020	.00002	.0252	.00013	.00037	.0306	.00008	.00045	.00057
%RSD	78.676	11.720	11.720	9.7987	5.5230	.52762	7.0745	9.5658	.31085	22.519	24.703	4.3614
#1	.00563	.00981	.02099	.00213	.00035	4.7501	.00173	-.00358	9.8084	-.00043	.00214	-.01266
#2	.00160	.00831	.01777	.00186	.00038	4.7857	.00191	-.00410	9.8516	-.00031	.00150	-.01347
Check ?	None	None	None	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value												
Range												

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4063.4**	**48327.**	**5609.5**
Stddev	18.6	145.	74.5
%RSD	.45737	.29979	1.3277
#1	4050.3	48429.	5662.1
#2	4076.6	48225.	5556.8

Sample Name: CCV-1169927 Acquired: 12/14/2011 8:30:40 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47957**	**.48851**	**.96091**	**.47889**	**.49109**	**.48159**	**.00296**	**4.8896**	**.48463**	**.48864**	**.48958**	**.48397**	**2.3985**
Stddev	.00184	.00334	.00429	.00012	.00107	.00045	.00080	.0044	.00050	.00129	.00005	.00108	.0106
%RSD	.38300	.68370	.44689	.02610	.21848	.09371	26.976	.09089	.10226	.26448	.01120	.22328	.44320
#1	.48087	.49087	.96395	.47880	.49185	.48191	.00239	4.8865	.48498	.48955	.48962	.48473	2.4060
#2	.47827	.48615	.95788	.47898	.49033	.48127	.00352	4.8928	.48428	.48772	.48954	.48320	2.3910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.303**	**1.0074**	**19.281**	**.47940**	**.48590**	**5.0196**	**.49018**	**.95970**	**.95965**	**.00442**	**.96528**	**.94182**	**4.7917**
Stddev	.158	.0032	.077	.00336	.00127	.0209	.00156	.00507	.00223	.00149	.00108	.00020	.0145
%RSD	.31321	.32015	.40025	.70049	.26174	.41528	.31837	.52837	.23247	33.780	.11212	.02146	.30173
#1	50.415	1.0097	19.335	.48177	.48680	5.0344	.49129	.96329	.96123	.00547	.96451	.94196	4.7815
#2	50.192	1.0051	19.226	.47702	.48500	5.0049	.48908	.95612	.95807	.00336	.96604	.94168	4.8019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.254**	**.98090**	**.49758**	**.00043**	**.48483**	**.97854**	**-.03371**	**.47501**	**.47977**	**.48306**
Stddev	.031	.00163	.00054	.00087	.00151	.00542	.00672	.00305	.00199	.00421
%RSD	.30173	.16570	.10841	204.91	.31079	.55414	19.921	.64294	.41392	.87203
#1	10.232	.98205	.49796	.00104	.48590	.97471	-.02896	.47717	.48118	.48603
#2	10.276	.97975	.49720	-.00019	.48377	.98238	-.03846	.47285	.47837	.48008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4125.8**	**49619.**	**5569.3**
Stddev	15.0	205.	48.7
%RSD	.36346	.41282	.87396
#1	4115.2	49475.	5534.9
#2	4136.4	49764.	5603.7

Sample Name: CCB Acquired: 12/14/2011 8:32:50 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00113**	**-.00012**	**-.00126**	**-.00009**	**.00005**	**-.00192**	**-.00345**	**.00008**	**.00009**	**.00001**	**-.00032**	**.00940**
Stddev	.00017	.00082	.00226	.00008	.00004	.00007	.00122	.00413	.00012	.00022	.00038	.00010	.00061
%RSD	683.64	73.014	1892.2	6.3867	48.273	139.36	63.326	119.64	141.82	256.12	3540.1	32.611	6.5139
#1	.00009	-.00054	-.00171	-.00132	-.00012	.00010	-.00278	-.00637	.00016	-.00007	.00028	-.00039	.00984
#2	-.00014	-.00171	.00148	-.00120	-.00006	.00000	-.00106	-.00053	.00000	.00025	-.00026	-.00025	.00897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07424**	**.00092**	**-.00076**	**.00010**	**.00049**	**.03160**	**-.00022**	**.00009**	**.00112**	**.01644**	**.00110**	**-.00064**	**-.00810**
Stddev	.02300	.00060	.00181	.00001	.00022	.02297	.00025	.00000	.00127	.00163	.00158	.00011	.00530
%RSD	30.983	65.230	239.12	11.240	44.418	72.686	115.58	5.0485	112.59	9.9292	143.85	17.412	65.455
#1	.09050	.00135	.00052	.00009	.00064	.04783	-.00004	.00010	.00023	.01759	-.00002	-.00072	-.01184
#2	.05797	.00050	-.00204	.00010	.00033	.01536	-.00039	.00009	.00202	.01528	.00222	-.00056	-.00435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	SiO2	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01733**	**-.00060**	**.00003**	**.00078**	**.00035**	**-.00106**	**-.00908**	**-.00006**	**.00162**	**.00110**
Stddev	.01134	.00077	.00013	.00016	.00008	.00125	.02203	.00002	.00004	.00038
%RSD	65.455	127.73	464.73	20.423	21.968	117.25	242.68	42.396	2.3352	34.426
#1	-.02534	-.00006	.00012	.00089	.00040	-.00194	-.02465	-.00004	.00164	.00136
#2	-.00931	-.00115	-.00006	.00067	.00029	-.00018	.00650	-.00007	.00159	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4116.5**	**50508.**	**5538.0**
Stddev	1.8	54.	80.5
%RSD	.04398	.10775	1.4532
#1	4117.8	50547.	5481.1
#2	4115.2	50470.	5594.9

Sample Name: CCVL1171013 Acquired: 12/14/2011 8:35:16 Type: QC
Method: 6500_025(v24) Mode: CONC Corr. Factor: 1.000000
User: kharre Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00995**	**.10205**	**.01327**	**.10224**	**.00992**	**.00106**	**.11026**	**.19653**	**.00512**	**.01071**	**.01000**	**.01466**	**.10962**	**3.2091**
Stddev	.00059	.00232	.00172	.00095	.00008	.00001	.00176	.00225	.00003	.00019	.00005	.00025	.00092	.0160
%RSD	5.9461	2.2750	12.999	.93360	.82923	.53799	1.5961	1.1438	.57947	1.7852	.52283	1.7389	.83745	.49920
#1	.00953	.10370	.01449	.10291	.00986	.00105	.11151	.19494	.00510	.01058	.01004	.01484	.10897	3.2204
#2	.01037	.10041	.01205	.10156	.00998	.00106	.10902	.19812	.00514	.01085	.00996	.01448	.11027	3.1978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	SiO2	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01236**	**.20853**	**.01016**	**.02011**	**1.0746**	**.04100**	**3.0741**	**.00897**	**.01149**	**.00936**	**.01447**	**.49758**	**1.0648**	**.10544**
Stddev	.00070	.00250	.00007	.00024	.0096	.00003	.0112	.00140	.00243	.00035	.00443	.00746	.0160	.00041
%RSD	5.6826	1.1997	.67329	1.1902	.89143	.06931	.36517	15.608	21.146	3.7504	30.642	1.5002	1.5002	.39060
#1	.01286	.21030	.01021	.02027	1.0678	.04102	3.0821	.00996	.01320	.00911	.01760	.50286	1.0761	.10574
#2	.01186	.20676	.01011	.01994	1.0813	.04098	3.0662	.00798	.00977	.00961	.01133	.49230	1.0535	.10515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01028**	**.01523**	**.01021**	**.01869**	**.05404**	**.00967**	**.02170**	**.01795**
Stddev	.00004	.00137	.00007	.00072	.02605	.00020	.00019	.00089
%RSD	.41794	9.0271	.68095	3.8319	48.202	2.0767	.85330	4.9668
#1	.01031	.01426	.01016	.01920	.07246	.00981	.02183	.01732
#2	.01025	.01620	.01026	.01818	.03562	.00953	.02157	.01859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4233.6**	**51642.**	**5668.3**
Stddev	14.5	74.	41.2
%RSD	.34247	.14280	.72740
#1	4223.4	51694.	5697.5
#2	4243.9	51590.	5639.2

Sample Name: ICIS Acquired: 12/28/2011 14:53:30 Type: Cal
Method: 6500_026(v4) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00254**	**.00417**	**-.03168**	**-.00047**	**.00055**	**.00825**	**.00042**	**-.00072**	**.01193**	**.00021**	**-.00024**	**.00000**
Stddev	.00001	.00342	.00179	.00012	.00005	.00150	.00081	.00006	.00056	.00026	.00016	.00001
%RSD	.31579	82.003	5.6515	25.572	9.6231	18.170	192.77	8.2967	4.6900	124.89	66.908	212.16
#1	-.00255	.00175	-.03042	-.00056	.00059	.00931	-.00015	-.00068	.01153	.00039	-.00036	.00001
#2	-.00254	.00659	-.03295	-.00039	.00052	.00719	.00100	-.00077	.01233	.00002	-.00013	.00000

Elem	Cu3247	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183	Ni2316	P_1782
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00703**	**.00047**	**.00095**	**.00412**	**.00248**	**.00004**	**.00052**	**.00018**	**.00876**	**-.00035**	**-.00110**	**.00022**
Stddev	.00008	.00017	.00015	.00349	.00063	.00004	.00008	.00008	.00098	.00214	.00006	.00005
%RSD	1.0942	36.421	16.225	84.910	25.311	85.662	14.810	42.901	11.154	611.63	5.0402	23.551
#1	.00708	.00060	.00106	.00659	.00293	.00002	.00057	.00024	.00945	.00117	-.00114	.00026
#2	.00698	.00035	.00084	.00164	.00204	.00007	.00046	.00013	.00807	-.00187	-.00106	.00018

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00026**	**-.00001**	**.00082**	**.00018**	**.00186**	**.00003**	**-.00359**	**-.00007**	**-.00028**	**-.00019**	**-.00011**	**.00046**
Stddev	.00012	.00002	.00004	.00008	.00018	.00004	.00134	.00010	.00015	.00004	.00012	.00004
%RSD	45.590	141.42	4.3707	42.062	9.4684	124.67	37.425	148.18	51.678	20.213	109.13	8.8948
#1	.00034	-.00003	.00079	.00013	.00173	.00006	-.00264	.00000	-.00039	-.00017	-.00020	.00043
#2	.00018	.00000	.00084	.00024	.00198	.00000	-.00454	-.00014	-.00018	-.00022	-.00003	.00049

Elem	Zn2062	Zr3391
Units	Cts/S	Cts/S
Avg	**-.00001**	**-.00148**
Stddev	.00001	.00007
%RSD	80.560	4.7208
#1	-.00001	-.00144
#2	.00000	-.00153

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5549.6**	**71944.**	**4972.2**
Stddev	1.5	43.	5.6
%RSD	.02640	.06035	.11259
#1	5550.7	71914.	4976.2
#2	5548.6	71975.	4968.3

Sample Name: IC1 Acquired: 12/28/2011 14:56:04 Type: Cal
Method: 6500_026(v4) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.26782**	**.16828**	**.11444**	**.32914**	**4.7533**	**8.4806**	**2.3590**	**1.6197**	**.90948**	**1.1569**	**.35682**	**1.0083**	**6.7165**
Stddev	.00052	.00037	.00010	.00059	.0030	.0071	.0020	.0039	.00125	.0004	.00110	.0005	.0048
%RSD	.19232	.21733	.09170	.17946	.06395	.08409	.08627	.24307	.13743	.03639	.30733	.04803	.07158
#1	.26819	.16802	.11437	.32872	4.7511	8.4755	2.3575	1.6169	.90860	1.1566	.35759	1.0080	6.7131
#2	.26746	.16854	.11452	.32955	4.7554	8.4856	2.3604	1.6224	.91037	1.1572	.35604	1.0087	6.7199

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.7742**	**.87532**	**1.1296**	**.69433**	**2.0241**	**.70167**	**.09840**	**.47789**	**.21819**	**.11580**	**.52439**	**.26590**	**9.3747**
Stddev	.0050	.00073	.0006	.00098	.0032	.00071	.00000	.00020	.00017	.00003	.00256	.00036	.0036
%RSD	.28233	.08367	.05624	.14081	.15916	.10153	.00381	.04157	.07563	.02659	.48796	.13369	.03875
#1	1.7778	.87584	1.1301	.69364	2.0264	.70116	.09840	.47775	.21808	.11582	.52258	.26565	9.3722
#2	1.7707	.87480	1.1292	.69502	2.0218	.70217	.09839	.47803	.21831	.11578	.52620	.26615	9.3773

Elem	Ti3349	Tl1908	V_2924	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.38706**	**.25345**	**.23794**	**.03649**	**.41964**
Stddev	.00007	.00106	.00001	.00000	.00255
%RSD	.01701	.41944	.00401	.00107	.60796
#1	.38702	.25270	.23794	.03649	.42144
#2	.38711	.25421	.23795	.03649	.41783

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5467.6**	**69479.**	**4983.8**
Stddev	11.2	82.	3.1
%RSD	.20410	.11752	.06168
#1	5475.5	69536.	4981.6
#2	5459.7	69421.	4986.0

Sample Name: IC2 Acquired: 12/28/2011 14:58:23 Type: Cal
Method: 6500_026(v4) Mode: IR Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3092	Bi2230	Fe2714	Na8183	S_1820	Th2837	U_3701
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.3160**	**.20951**	**.97214**	**3.2151**	**.36682**	**.65453**	**.13601**
Stddev	.0037	.00078	.00113	.0064	.00049	.00004	.00001
%RSD	.06905	.37116	.11650	.19888	.13470	.00604	.00633
#1	5.3186	.20896	.97294	3.2197	.36647	.65456	.13602
#2	5.3134	.21006	.97134	3.2106	.36717	.65450	.13601

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5265.0**	**66620.**	**4904.0**
Stddev	6.0	56.	27.4
%RSD	.11371	.08375	.55851
#1	5260.8	66581.	4884.7
#2	5269.2	66659.	4923.4

Sample Name: S1-1190976 Acquired: 12/28/2011 15:00:59 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0072**	**1.0053**	**1.9952**	**1.0007**	**1.0079**	**1.0066**	**-.00247**	**10.058**	**1.0022**	**1.0053**	**1.0058**	**1.0045**	**5.0426**
Stddev	.0026	.0031	.0098	.0024	.0006	.0002	.00054	.030	.0019	.0030	.0024	.0032	.0027
%RSD	.25392	.30983	.49086	.24512	.06359	.01574	21.986	.29832	.18978	.30164	.23325	.31985	.05349
#1	1.0090	1.0075	2.0021	1.0024	1.0083	1.0065	-.00209	10.079	1.0035	1.0074	1.0075	1.0068	5.0445
#2	1.0053	1.0031	1.9883	.99897	1.0074	1.0067	-.00285	10.037	1.0008	1.0031	1.0042	1.0022	5.0407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**100.19**	**2.0109**	**39.906**	**.99889**	**1.0034**	**10.204**	**10.337**	**.99953**	**2.0014**	**2.0046**	**.00176**	**1.9948**	**2.0002**
Stddev	.03	.0006	.107	.00184	.0012	.020	.116	.00298	.0006	.0064	.00061	.0083	.0020
%RSD	.03135	.02733	.26776	.18416	.11929	.19501	1.1235	.29847	.03206	.32056	34.703	.41830	.10147
#1	100.22	2.0105	39.981	1.0002	1.0042	10.218	10.419	1.0016	2.0009	2.0092	.00133	2.0007	2.0016
#2	100.17	2.0113	39.830	.99759	1.0025	10.190	10.255	.99742	2.0018	2.0001	.00219	1.9889	1.9988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value													
Range													

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.011**	**2.0003**	**1.0046**	**-.01449**	**1.0027**	**2.0060**	**.00550**	**1.0040**	**.99683**	**1.0054**
Stddev	.013	.0044	.0004	.00034	.0021	.0080	.01635	.0028	.00307	.0006
%RSD	.13260	.22204	.03539	2.3705	.21276	.39977	297.44	.27974	.30822	.05496
#1	10.021	2.0035	1.0049	-.01474	1.0042	2.0117	.01705	1.0060	.99900	1.0058
#2	10.002	1.9972	1.0044	-.01425	1.0012	2.0003	-.00606	1.0020	.99465	1.0050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5467.9**	**69736.**	**4970.7**
Stddev	9.6	182.	4.9
%RSD	.17589	.26031	.09762
#1	5461.1	69607.	4974.1
#2	5474.7	69864.	4967.3

Sample Name: S2-1190975 Acquired: 12/28/2011 15:03:15 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00703**	**100.63**	**-.00288**	**.00521**	**.00071**	**.00002**	**2.0091**	**.02770**	**-.00294**	**.00432**	**-.00003**	**-.00398**	**99.755**
Stddev	.00009	.33	.00162	.00012	.00029	.00001	.0049	.00302	.00005	.00033	.00015	.00004	.111
%RSD	1.2108	.33095	56.191	2.3533	41.402	56.753	.24398	10.889	1.7109	7.5880	554.01	1.0113	.11109
#1	.00697	100.40	-.00402	.00530	.00050	.00003	2.0056	.02556	-.00298	.00409	-.00013	-.00395	99.834
#2	.00709	100.87	-.00173	.00512	.00091	.00001	2.0125	.02983	-.00291	.00455	.00008	-.00401	99.677
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28068**	**.00921**	**.03952**	**-.00119**	**-.00111**	**498.20**	**.00302**	**.01003**	**.00189**	**9.9968**	**.00109**	**-.00051**	**.00735**
Stddev	.00589	.00062	.00342	.00005	.00016	.01	.00019	.00030	.00070	.0030	.00287	.00313	.01827
%RSD	2.0972	6.7792	8.6423	4.4259	13.961	.00197	6.1352	2.9757	36.776	.03001	262.76	613.49	248.52
#1	.27652	.00965	.04193	-.00122	-.00122	498.20	.00289	.00982	.00238	9.9947	-.00094	-.00273	.02027
#2	.28485	.00877	.03710	-.00115	-.00100	498.21	.00315	.01024	.00140	9.9989	.00312	.00171	-.00557
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00352**	**.00070**	**9.9712**	**-.04842**	**.00280**	**20.035**	**.01060**	**.00265**	**-.20655**
Stddev	.00012	.00003	.0417	.00046	.00029	.045	.00021	.00030	.00206
%RSD	3.5055	4.5904	.41811	.95847	10.447	.22486	1.9881	11.390	.99810
#1	.00343	.00072	10.001	-.04875	.00300	20.067	.01075	.00244	-.20801
#2	.00360	.00067	9.9418	-.04809	.00259	20.003	.01045	.00286	-.20509
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5258.3**	**66210.**	**4929.7**
Stddev	7.6	172.	16.9
%RSD	.14360	.26041	.34333
#1	5263.7	66088.	4941.7
#2	5253.0	66332.	4917.7

Sample Name: ICVH-1184924 Acquired: 12/28/2011 15:05:47 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00237**	**40.215**	**-.00019**	**.00218**	**.00040**	**-.00001**	W **.52779**	**39.072**	**-.00074**	**.00170**	**.00013**
Stddev	.00038	.138	.00071	.00061	.00024	.00002	.00041	.151	.00002	.00008	.00001
%RSD	15.972	.34371	377.03	28.031	59.098	195.71	.07680	.38630	2.7029	4.8689	9.6383
#1	.00264	40.117	-.00069	.00261	.00024	-.00002	.52808	38.965	-.00075	.00164	.00014
#2	.00210	40.313	.00032	.00175	.00057	.00000	.52751	39.179	-.00072	.00176	.00012
Check ?	None	Chk Pass	None	None	None	None	Chk Warn	Chk Pass	None	None	None
Value							.50000				
Range							5.0000%				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00102**	**79.163**	**.05148**	**.00416**	**.00145**	**.00047**	**-.00098**	**40.509**	**.00154**	**.00347**	**.00136**
Stddev	.00015	.473	.01804	.00042	.00372	.00000	.00024	.085	.00010	.00029	.00108
%RSD	14.489	.59760	35.046	10.158	256.38	.85729	24.248	.20862	6.4169	8.3454	79.223
#1	-.00091	78.828	.06424	.00446	-.00118	.00047	-.00081	40.449	.00147	.00327	.00060
#2	-.00112	79.497	.03872	.00386	.00408	.00047	-.00115	40.568	.00161	.00368	.00212
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass	None	None	None
Value											
Range											

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.4157**	**-.00069**	**-.00211**	**-.00823**	**.00056**	**.00043**	**2.9334**	**-.01440**	**.00142**	**5.0814**	**.00350**
Stddev	.0112	.00002	.00185	.00448	.00029	.00011	.0189	.00008	.00143	.0331	.00034
%RSD	.32807	2.6325	87.874	54.446	52.688	25.016	.64289	.55035	100.66	.65144	9.6321
#1	3.4236	-.00068	-.00342	-.01140	.00035	.00051	2.9201	-.01446	.00041	5.0580	.00326
#2	3.4078	-.00071	-.00080	-.00506	.00076	.00036	2.9467	-.01434	.00243	5.1048	.00373
Check ?	None	None	None	None	None	None	Chk Pass	None	None	Chk Pass	None
Value											
Range											

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**2.4294**	**-.05869**
Stddev	.0087	.00047
%RSD	.35740	.80690
#1	2.4233	-.05835
#2	2.4356	-.05902
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5496.3**	**70085.**	**4993.5**
Stddev	11.2	104.	17.7
%RSD	.20426	.14909	.35509
#1	5488.4	70159.	5006.1
#2	5504.3	70011.	4981.0

Sample Name: ICV-1159460 Acquired: 12/28/2011 15:09:23 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25473**	**.24535**	**.24465**	**.24905**	**.25098**	**.24387**	**.00136**	**1.9936**	**.25487**	**.25584**	**.25239**	**.25302**
Stddev	.00022	.00046	.00008	.00097	.00128	.00113	.00203	.0123	.00058	.00022	.00022	.00021
%RSD	.08549	.18550	.03232	.39127	.51160	.46239	149.89	.61845	.22768	.08686	.08685	.08170
#1	.25458	.24568	.24470	.24836	.25189	.24466	.00279	2.0023	.25528	.25568	.25255	.25287
#2	.25489	.24503	.24459	.24974	.25007	.24307	-.00008	1.9849	.25446	.25600	.25224	.25317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25517**	**19.620**	**.24621**	**9.9398**	**.25315**	**.24512**	**2.0549**	**.25458**	**1.9447**	**.25803**	**.00082**	**.24532**
Stddev	.00038	.098	.00151	.0141	.00022	.00010	.0181	.00014	.0007	.00022	.00510	.00057
%RSD	.15002	.49782	.61410	.14170	.08755	.04109	.88259	.05588	.03807	.08459	618.06	.23336
#1	.25490	19.689	.24728	9.9298	.25300	.24505	2.0677	.25448	1.9452	.25788	-.00278	.24492
#2	.25544	19.551	.24514	9.9497	.25331	.24519	2.0420	.25468	1.9442	.25818	.00443	.24573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48529**	**1.9726**	**.49892**	**.25214**	**-.00215**	**.24668**	F **.52572**	**.00168**	**.24873**	**.24923**	**.24346**
Stddev	.00392	.0281	.00017	.00093	.00029	.00013	.00050	.01310	.00021	.00014	.00142
%RSD	.80848	1.4225	.03375	.36951	13.605	.05167	.09568	778.63	.08416	.05473	.58525
#1	.48252	1.9924	.49880	.25280	-.00235	.24659	.52608	-.00758	.24888	.24932	.24447
#2	.48807	1.9528	.49904	.25148	-.00194	.24677	.52536	.01095	.24858	.24913	.24245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass
Value							.50000				
Range							5.0000%				

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5568.5**	**71432.**	**5016.7**
Stddev	10.0	138.	14.1
%RSD	.17918	.19284	.28046
#1	5561.4	71530.	5006.8
#2	5575.5	71335.	5026.7

Sample Name: ICVL1192076 Acquired: 12/28/2011 15:11:46 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01078**	**.08590**	**.01526**	**.10172**	**.01001**	**.00094**	W **.12075**	**.19657**	**.00512**	**.01071**	**.01003**
Stddev	.00023	.00018	.00051	.00023	.00011	.00012	.00078	.00472	.00001	.00011	.00005
%RSD	2.1176	.20626	3.3322	.23090	1.1433	12.658	.64428	2.4014	.27818	1.0180	.50978
#1	.01094	.08603	.01490	.10188	.00993	.00086	.12130	.19323	.00513	.01078	.01007
#2	.01062	.08578	.01562	.10155	.01009	.00102	.12020	.19990	.00511	.01063	.01000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							.10000				
Range							20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01509**	**.09973**	**2.9463**	F **.01411**	**.20864**	**.00996**	**.01962**	**1.0659**	**.04200**	**2.9209**	**.00900**
Stddev	.00032	.00112	.0599	.00249	.00003	.00003	.00004	.0095	.00017	.0101	.00043
%RSD	2.1312	1.1249	2.0344	17.625	.01488	.29168	.22273	.89281	.39953	.34543	4.7745
#1	.01486	.10052	2.9887	.01235	.20866	.00998	.01965	1.0592	.04212	2.9280	.00931
#2	.01532	.09894	2.9040	.01587	.20862	.00993	.01959	1.0726	.04188	2.9138	.00870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				30.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.00844**	**.01391**	**.48220**	**.10023**	**.01013**	**.01376**	**.00992**	**.01717**	W **.07755**	**.00955**
Stddev	.00099	.00136	.00091	.01445	.00092	.00007	.00080	.00008	.00052	.00464	.00081
%RSD	120.92	16.066	6.5365	2.9964	.91405	.65744	5.8284	.82230	3.0155	5.9834	8.4323
#1	.00151	.00748	.01327	.49241	.10088	.01008	.01319	.00986	.01681	.07427	.00898
#2	.00012	.00939	.01456	.47198	.09958	.01017	.01433	.00998	.01754	.08083	.01012
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value										.06000	
Range										20.000%	

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02147**	**.01463**
Stddev	.00026	.00097
%RSD	1.2191	6.6588
#1	.02129	.01532
#2	.02166	.01394
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5674.5**	**73204.**	**5073.4**
Stddev	7.4	205.	10.7
%RSD	.12994	.28030	.21023
#1	5669.3	73059.	5065.9
#2	5679.7	73350.	5080.9

Sample Name: CCVH-1190977 Acquired: 12/28/2011 15:14:15 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00365**	**49.999**	**-.00037**	**.00204**	**.00044**	**-.00001**	**1.0210**	**.00620**	**-.00156**	**.00223**	**-.00005**	**-.00165**	**49.912**
Stddev	.00036	.236	.00033	.00070	.00031	.00001	.0010	.00042	.00000	.00008	.00007	.00032	.142
%RSD	9.8235	.47201	86.893	34.281	70.204	180.42	.10241	6.8301	.20477	3.6291	151.86	19.705	.28486
#1	.00339	50.166	-.00060	.00155	.00066	.00000	1.0203	.00590	-.00156	.00218	-.00010	-.00188	50.012
#2	.00390	49.832	-.00014	.00254	.00022	-.00001	1.0217	.00650	-.00156	.00229	.00000	-.00142	49.811
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03240**	**.00294**	**.02225**	**-.00077**	**-.00094**	**248.41**	**.00171**	**.00446**	**.00027**	**5.2626**	**-.00361**	**-.00331**	**.00740**
Stddev	.01665	.00110	.00067	.00007	.00009	1.03	.00023	.00044	.00065	.0042	.00326	.00205	.00585
%RSD	51.410	37.561	3.0149	8.8472	9.3938	.41440	13.310	9.8598	241.25	.07960	90.378	61.819	79.089
#1	.02062	.00372	.02273	-.00081	-.00088	249.14	.00155	.00477	-.00019	5.2656	-.00591	-.00476	.00326
#2	.04417	.00216	.02178	-.00072	-.00100	247.68	.00187	.00415	.00073	5.2596	-.00130	-.00187	.01154
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.00038**	**4.9615**	**-.02438**	**.00206**	**10.171**	**.00509**	**.00174**	**-.09986**
Stddev	.00016	.00004	.0033	.00006	.00027	.012	.00048	.00048	.00040
%RSD	11.875	11.301	.06726	.23880	12.863	.11918	9.4254	27.612	.40391
#1	.00150	.00041	4.9592	-.02433	.00187	10.163	.00543	.00140	-.10015
#2	.00127	.00035	4.9639	-.02442	.00225	10.180	.00475	.00208	-.09958
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5422.1**	**68556.**	**4960.3**
Stddev	1.3	22.	19.5
%RSD	.02472	.03264	.39240
#1	5423.0	68540.	4974.0
#2	5421.1	68572.	4946.5

Sample Name: CCV-1190978 Acquired: 12/28/2011 15:16:41 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50806**	**.50288**	**.99549**	**.50168**	**.50037**	**.49320**	**.00030**	**5.0022**	**.50221**	**.50800**	**.50485**	**.50227**	**2.4948**
Stddev	.00032	.00138	.00201	.00037	.00047	.00010	.00067	.0102	.00066	.00009	.00011	.00072	.0073
%RSD	.06253	.27538	.20166	.07441	.09303	.01933	223.25	.20369	.13229	.01708	.02096	.14401	.29359
#1	.50829	.50190	.99407	.50194	.50070	.49326	.00077	5.0094	.50268	.50806	.50493	.50278	2.4896
#2	.50784	.50386	.99691	.50141	.50004	.49313	-.00017	4.9950	.50174	.50794	.50478	.50176	2.5000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.347**	**.97823**	**20.057**	**.50035**	**.49850**	**5.0833**	**.50581**	**.98926**	**1.0104**	**.00096**	**.98757**	**.98860**	**4.8764**
Stddev	.027	.00431	.065	.00183	.00138	.0101	.00043	.00014	.0020	.00060	.00308	.00375	.0197
%RSD	.05392	.44106	.32195	.36574	.27657	.19912	.08427	.01447	.19600	62.329	.31145	.37980	.40394
#1	49.328	.98128	20.103	.50165	.49948	5.0904	.50612	.98916	1.0118	.00139	.98975	.99126	4.8624
#2	49.366	.97518	20.012	.49906	.49753	5.0761	.50551	.98937	1.0090	.00054	.98540	.98595	4.8903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99720**	**.49704**	**-.00602**	**.49638**	**1.0325**	**-.00346**	**.50010**	**.50048**	**.49021**
Stddev	.00228	.00010	.00031	.00224	.0015	.00259	.00217	.00331	.00047
%RSD	.22875	.02055	5.2168	.45205	.14199	74.839	.43425	.66061	.09649
#1	.99881	.49697	-.00624	.49797	1.0336	-.00163	.50164	.50282	.48988
#2	.99559	.49711	-.00579	.49479	1.0315	-.00530	.49856	.49814	.49055
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5557.6**	**70815.**	**5046.2**
Stddev	7.5	327.	6.2
%RSD	.13496	.46222	.12303
#1	5552.3	70584.	5050.6
#2	5562.9	71047.	5041.9

Sample Name: ICB Acquired: 12/28/2011 15:18:58 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	W **-.02376**	**.00204**	**.00136**	**.00003**	**-.00003**	**.00001**	**-.00032**	**.00010**	**-.00017**
Stddev	.00018	.00018	.00156	.00006	.00024	.00006	.00092	.00080	.00001	.00003
%RSD	168.75	.77792	76.730	4.7048	872.03	182.60	12210.	249.15	7.2649	19.706
#1	-.00002	-.02363	.00093	.00131	-.00014	.00001	-.00064	-.00088	.00011	-.00020
#2	.00024	-.02389	.00314	.00140	.00019	-.00008	.00066	.00024	.00010	-.00015
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800								
Low Limit		-.01800								

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00027**	**.00023**	**.05873**	W **.00414**	**-.00199**	**-.00015**	**.00048**	**.07771**	**-.00023**
Stddev	.00013	.00040	.00024	.00298	.00005	.00239	.00002	.00012	.00096	.00031
%RSD	60.344	146.88	103.07	5.0728	1.2238	120.17	10.647	25.515	1.2297	131.53
#1	.00012	.00001	.00006	.05662	.00417	-.00030	-.00017	.00056	.07704	-.00002
#2	.00030	-.00055	.00040	.06083	.00410	-.00368	-.00014	.00039	.07839	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.00261					
Low Limit					-.00261					

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**-.00096**	**-.00051**	W **.00422**	**-.00019**	**.00216**	**.00027**	**.00011**	**-.00014**	**-.00013**
Stddev	.00115	.00010	.00049	.00040	.00002	.00357	.00049	.00016	.00046	.00011
%RSD	97.914	10.219	96.179	9.4747	10.384	165.19	184.24	137.29	324.28	87.726
#1	-.00036	-.00103	-.00016	.00394	-.00018	.00469	-.00008	.00000	-.00047	-.00021
#2	-.00199	-.00090	-.00085	.00451	-.00020	-.00036	.00061	.00022	.00019	-.00005
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00314						
Low Limit				-.00314						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.01970**	**.00009**	**.00139**	**.00085**
Stddev	.00102	.00308	.00003	.00017	.00016
%RSD	155.13	15.642	37.955	11.859	19.018
#1	-.00139	.02188	.00007	.00128	.00074
#2	.00006	.01752	.00011	.00151	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5524.6**	**71982.**	**4979.7**
Stddev	4.8	425.	9.4
%RSD	.08733	.59084	.18863
#1	5521.2	72283.	4973.1
#2	5528.0	71681.	4986.4

Sample Name: CRI-1192074 Acquired: 12/28/2011 15:21:30 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01052**	**.08597**	**.01097**	**.09940**	**.00489**	**.00101**	W **.12166**	**.20214**	**.00512**	**.00541**	**.01043**
Stddev	.00061	.00001	.00088	.00005	.00027	.00001	.00038	.00210	.00010	.00001	.00004
%RSD	5.7715	.00674	7.9977	.04681	5.4481	.89675	.31024	1.0377	1.8671	.26251	.36039
#1	.01095	.08597	.01160	.09936	.00508	.00102	.12139	.20362	.00505	.00542	.01040
#2	.01009	.08596	.01035	.09943	.00470	.00101	.12192	.20066	.00519	.00540	.01046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							.10000				
Range							20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01013**	**.03395**	**1.0408**	W **.01308**	**.20526**	**.00294**	**.01011**	**1.0526**	**.01053**	**.95559**	**.00320**
Stddev	.00005	.00359	.0366	.00149	.00053	.00010	.00011	.0006	.00034	.00193	.00025
%RSD	.53496	10.565	3.5145	11.355	.25591	3.4548	1.1233	.05699	3.1834	.20233	7.7420
#1	.01009	.03648	1.0667	.01413	.20488	.00301	.01003	1.0530	.01077	.95696	.00337
#2	.01017	.03141	1.0150	.01203	.20563	.00287	.01019	1.0522	.01029	.95422	.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				20.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08666**	**.00945**	**.00930**	**.48097**	**.01979**	**.00517**	**.01035**	**.00966**	**.01056**	**.05709**	**.00987**
Stddev	.00123	.00011	.00196	.00473	.00044	.00023	.00058	.00023	.00077	.02544	.00013
%RSD	1.4186	1.2002	21.081	.98249	2.2314	4.5194	5.6227	2.4296	7.2927	44.561	1.2867
#1	.08579	.00937	.00791	.47763	.01948	.00500	.01076	.00949	.01002	.03910	.00978
#2	.08753	.00953	.01068	.48432	.02010	.00533	.00994	.00983	.01111	.07508	.00996
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.01171**	**.01057**
Stddev	.00013	.00058
%RSD	1.1171	5.4543
#1	.01162	.01016
#2	.01181	.01097
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5618.7**	**72824.**	**5046.2**
Stddev	8.0	81.	27.6
%RSD	.14203	.11099	.54661
#1	5613.0	72881.	5026.7
#2	5624.3	72767.	5065.8

Sample Name: ICSA-1173871 Acquired: 12/28/2011 15:25:05 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**508.67**	**-.00040**	**.00023**	**.00028**	**-.00010**	**-.00005**	**463.67**	**.00044**	**-.00019**	F **.00215**
Stddev	.00034	.96	.00025	.00067	.00026	.00005	.00141	1.47	.00008	.00014	.00032
%RSD	51.841	.18778	63.735	294.27	90.457	46.618	2698.7	.31609	19.175	74.702	14.866
#1	-.00041	509.35	-.00058	-.00025	.00047	-.00013	-.00105	462.63	.00050	-.00009	.00193
#2	-.00089	508.00	-.00022	.00070	.00010	-.00007	.00094	464.71	.00038	-.00029	.00238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit											.00123
Low Limit											-.00132

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.00382**	**187.06**	**-.00508**	**.00038**	**472.61**	F **.00225**	**-.00083**	W **.13825**	F **.00423**	**.00400**	F **.00731**
Stddev	.00050	.32	.00629	.00128	1.86	.00002	.00028	.02713	.00020	.00135	.00032
%RSD	13.048	.17133	123.88	339.20	.39436	1.0251	34.157	19.623	4.7066	33.807	4.4036
#1	.00347	187.28	-.00952	.00128	471.29	.00223	-.00063	.11907	.00437	.00495	.00708
#2	.00417	186.83	-.00063	-.00053	473.93	.00226	-.00103	.15743	.00408	.00304	.00753
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Warn	Chk Fail	Chk Pass	Chk Fail
High Limit	.00272					.00051		.09160	.00258		.00522
Low Limit	-.00272					-.00051		-.09160	-.00258		-.00522

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01985**	**-.00129**	**-.00271**	**-.00037**	**.00101**	F **.00217**	F **-.01747**	F **-.00171**	**.00060**	**.16429**	F **.00305**
Stddev	.00038	.00294	.00134	.00638	.00022	.00021	.00200	.00004	.00115	.01817	.00020
%RSD	1.9083	227.87	49.415	1713.7	22.363	9.4989	11.452	2.3269	191.92	11.059	6.5251
#1	-.02012	.00079	-.00176	.00414	.00117	.00231	-.01889	-.00168	.00141	.15145	.00291
#2	-.01958	-.00337	-.00366	-.00488	.00085	.00202	-.01606	-.00174	-.00021	.17714	.00319
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	None	Chk Fail
High Limit						.00060	.01000	.00119			.00222
Low Limit						-.00060	-.01000	-.00119			-.00222

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	W **.00536**	**.00109**
Stddev	.00076	.00026
%RSD	14.159	23.846
#1	.00590	.00127
#2	.00482	.00090
Check ?	Chk Warn	Chk Pass
High Limit	.00453	
Low Limit	-.00453	

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4944.0**	**61179.**	**4810.5**
Stddev	3.5	192.	4.7
%RSD	.07074	.31371	.09838
#1	4946.5	61314.	4807.1
#2	4941.5	61043.	4813.8

Sample Name: ICSAB-1184925 Acquired: 12/28/2011 15:28:21 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0468**	**506.59**	**1.9081**	**1.8048**	**.49800**	**.47170**	**1.0470**	**461.74**	**.99132**	**.45143**	**.47852**	**.51516**	**187.12**	**52.132**
Stddev	.0022	2.66	.0001	.0005	.00220	.00224	.0004	.63	.00174	.00072	.00090	.00194	.82	.218
%RSD	.21019	.52452	.00406	.02551	.44249	.47577	.04205	.13557	.17591	.16046	.18829	.37610	.43997	.41826
#1	1.0484	504.71	1.9081	1.8045	.49644	.47011	1.0467	461.29	.99009	.45091	.47789	.51653	186.53	51.977
#2	1.0453	508.47	1.9082	1.8051	.49956	.47329	1.0473	462.18	.99255	.45194	.47916	.51379	187.70	52.286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0316**	**472.67**	**.48703**	**.93805**	**51.360**	**.88471**	**1.8504**	**.88352**	**.84499**	**.95537**	**4.5375**	**10.210**	**8.7248**	**.98654**
Stddev	.0074	2.03	.00054	.00020	.062	.00151	.0010	.00358	.00385	.00058	.0083	.032	.0047	.00418
%RSD	.71372	.42990	.11128	.02169	.12028	.17042	.05587	.40515	.45622	.06087	.18366	.31616	.05345	.42393
#1	1.0264	471.23	.48742	.93790	51.316	.88577	1.8511	.88099	.84226	.95496	4.5316	10.187	8.7215	.98358
#2	1.0368	474.10	.48665	.93819	51.404	.88364	1.8497	.88605	.84771	.95578	4.5434	10.233	8.7281	.98949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9609**	**.97544**	**8.1215**	**.18216**	**.49908**	**.93515**	**.92214**
Stddev	.0077	.00196	.0073	.01893	.00245	.00076	.00766
%RSD	.39401	.20135	.08922	10.395	.49174	.08169	.83034
#1	1.9664	.97683	8.1164	.16877	.50081	.93569	.91672
#2	1.9554	.97405	8.1267	.19555	.49734	.93461	.92755
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**4872.4**	**60351.**	**4772.0**
Stddev	7.4	54.	4.9
%RSD	.15237	.08965	.10190
#1	4877.6	60390.	4775.4
#2	4867.1	60313.	4768.6

Sample Name: LRA-1151381 Acquired: 12/28/2011 15:31:19 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9906**	**-.14727**	**9.4933**	**9.2956**	**12.086**	**.00093**	**-.00099**	**-.00080**	**1.9533**	**4.9938**	**10.047**	**10.210**	**497.54**
Stddev	.0002	.00264	.0275	.0090	.043	.00002	.00057	.00253	.0040	.0068	.032	.048	1.25
%RSD	.00860	1.7932	.28953	.09664	.35332	1.6544	57.644	317.94	.20709	.13657	.32092	.46517	.25075
#1	1.9907	-.14914	9.5128	9.3019	12.116	.00092	-.00140	-.00259	1.9562	4.9986	10.070	10.244	498.43
#2	1.9904	-.14540	9.4739	9.2892	12.056	.00094	-.00059	.00100	1.9505	4.9889	10.025	10.177	496.66
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.12748**	**.00100**	**-.09399**	**9.6966**	**4.9481**	**.05984**	**9.8772**	**-.01037**	**10.005**	**-.02580**	**-.11346**	**4.6361**	**48.520**
Stddev	.00643	.00118	.00051	.0505	.0105	.01329	.0183	.00187	.022	.00335	.00042	.0055	.017
%RSD	5.0402	118.21	.54412	.52060	.21229	22.203	.18542	18.030	.21757	12.989	.36703	.11757	.03524
#1	-.13202	.00183	-.09363	9.6609	4.9555	.06923	9.8901	-.00905	10.020	-.02817	-.11316	4.6400	48.532
#2	-.12294	.00016	-.09435	9.7323	4.9406	.05044	9.8642	-.01170	9.9897	-.02343	-.11375	4.6323	48.508
Check ?	None	None	None	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00727**	**9.8848**	**-.05624**	**9.9056**	**4.8668**	**.47247**	**10.157**	**9.5176**	**.00363**
Stddev	.00052	.0337	.00032	.0039	.0068	.01690	.002	.0060	.00208
%RSD	7.1897	.34086	.57526	.03902	.13938	3.5773	.02075	.06331	57.375
#1	-.00690	9.8609	-.05647	9.9083	4.8716	.46052	10.159	9.5219	.00510
#2	-.00764	9.9086	-.05601	9.9029	4.8620	.48442	10.156	9.5134	.00216
Check ?	None	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5326.2**	**68927.**	**4912.5**
Stddev	1.5	144.	28.2
%RSD	.02742	.20938	.57382
#1	5327.2	68825.	4892.5
#2	5325.1	69029.	4932.4

Sample Name: CCVH-1190977 Acquired: 12/28/2011 15:34:00 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00342**	**49.925**	**.00387**	**.02547**	**.00269**	**.00004**	**1.0252**	**.01768**	**-.00105**	**.00375**	**.00330**	**.00028**	**49.796**
Stddev	.00018	.038	.00294	.00170	.00008	.00007	.0105	.00310	.00004	.00030	.00059	.00028	.023
%RSD	5.3422	.07540	75.863	6.6750	2.9037	162.44	1.0223	17.532	3.6972	7.9667	17.953	97.156	.04703
#1	.00355	49.951	.00179	.02668	.00275	-.00001	1.0178	.01987	-.00103	.00354	.00288	.00009	49.813
#2	.00329	49.898	.00595	.02427	.00264	.00009	1.0326	.01549	-.00108	.00397	.00372	.00048	49.779
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04736**	**.00486**	**.03285**	**.00151**	**.00189**	**249.84**	**.00496**	**.00564**	**.00413**	**5.2857**	**-.00247**	**.00331**	**.06311**
Stddev	.00283	.00333	.00198	.00005	.00033	.36	.00040	.00092	.00004	.0605	.00045	.00337	.02484
%RSD	5.9658	68.523	6.0428	3.4276	17.280	.14226	7.9910	16.395	.88672	1.1444	18.049	101.74	39.362
#1	.04936	.00251	.03144	.00148	.00165	250.09	.00468	.00498	.00411	5.2430	-.00279	.00570	.08068
#2	.04536	.00722	.03425	.00155	.00212	249.59	.00524	.00629	.00416	5.3285	-.00216	.00093	.04555
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00144**	**.00250**	**5.0243**	**-.02088**	**.00343**	**10.224**	**.00757**	**.00451**	**-.10534**
Stddev	.00059	.00002	.0075	.00007	.00040	.057	.00042	.00015	.00072
%RSD	40.639	.98615	.14955	.33050	11.579	.55856	5.5676	3.2159	.67973
#1	.00103	.00249	5.0296	-.02093	.00315	10.265	.00727	.00441	-.10483
#2	.00186	.00252	5.0190	-.02084	.00371	10.184	.00787	.00462	-.10584
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5388.9**	**68501.**	**4946.4**
Stddev	38.2	386.	27.7
%RSD	.70903	.56313	.56021
#1	5416.0	68229.	4926.8
#2	5361.9	68774.	4966.0

Sample Name: CCV-1190978 Acquired: 12/28/2011 15:36:26 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51182**	**.51225**	**.99812**	**.51287**	**.50581**	**.49287**	**-.00054**	**5.0552**	**.50359**	**.50964**	**.50671**	**.50141**	**2.5405**
Stddev	.00012	.00242	.00858	.00012	.00144	.00194	.00120	.0217	.00000	.00085	.00193	.00117	.0087
%RSD	.02437	.47154	.85987	.02286	.28568	.39388	223.53	.42845	.00074	.16623	.38094	.23362	.34162
#1	.51173	.51054	.99205	.51279	.50683	.49425	-.00139	5.0705	.50360	.50904	.50534	.50224	2.5467
#2	.51191	.51396	1.0042	.51296	.50479	.49150	.00031	5.0398	.50359	.51024	.50807	.50058	2.5344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.399**	**.99089**	**20.094**	**.50003**	**.50057**	**5.0703**	**.50778**	**.99470**	**1.0159**	**.00066**	**.98689**	**.99144**	**4.9340**
Stddev	.085	.00594	.004	.00008	.00127	.0273	.00193	.00499	.0013	.00051	.00219	.00314	.0207
%RSD	.17222	.59987	.01819	.01567	.25396	.53838	.37954	.50193	.13106	78.551	.22206	.31649	.41954
#1	49.459	.99510	20.097	.50008	.49967	5.0896	.50641	.99117	1.0149	.00102	.98534	.99366	4.9487
#2	49.339	.98669	20.092	.49997	.50147	5.0510	.50914	.99823	1.0168	.00029	.98844	.98922	4.9194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0008**	**.49726**	**-.00483**	**.50031**	**1.0385**	**.00672**	**.50491**	**.50294**	**.49317**
Stddev	.0015	.00209	.00011	.00064	.0006	.02088	.00082	.00004	.00134
%RSD	.14883	.42058	2.2753	.12729	.05755	310.84	.16319	.00806	.27073
#1	.99976	.49873	-.00491	.50076	1.0381	-.00805	.50432	.50297	.49411
#2	1.0019	.49578	-.00475	.49986	1.0389	.02149	.50549	.50291	.49222
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5558.1**	**70768.**	**5001.1**
Stddev	8.0	191.	2.6
%RSD	.14339	.26950	.05177
#1	5563.8	70903.	4999.3
#2	5552.5	70634.	5002.9

Sample Name: CCB Acquired: 12/28/2011 15:38:41 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	W **-.01813**	**.00282**	F **.00974**	**.00053**	**-.00002**	**.00084**	**.00212**	**.00009**	**.00007**	**.00052**
Stddev	.00038	.00013	.00181	.00006	.00017	.00006	.00004	.00251	.00000	.00001	.00004
%RSD	82.985	.73840	64.384	.60146	32.423	343.91	5.1347	118.46	.38359	7.5260	8.0480
#1	.00019	-.01823	.00153	.00978	.00041	-.00006	.00087	.00034	.00009	.00007	.00055
#2	.00073	-.01804	.00410	.00969	.00065	.00002	.00081	.00389	.00009	.00006	.00049
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00312							
Low Limit		-.01800		-.00312							

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00983**	**.04129**	W **.00391**	**.00460**	**-.00005**	**.00071**	**.04382**	**.00017**	**-.00247**	**.00046**
Stddev	.00005	.00246	.01082	.00028	.00246	.00006	.00012	.00090	.00012	.00098	.00027
%RSD	26.901	24.980	26.193	7.1909	53.545	121.19	17.134	2.0569	71.367	39.635	58.984
#1	-.00016	.01157	.04894	.00371	.00634	-.00009	.00063	.04446	.00026	-.00316	.00065
#2	-.00023	.00809	.03364	.00411	.00286	-.00001	.00080	.04318	.00009	-.00178	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00261							
Low Limit				-.00261							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00215**	W **.00539**	**-.00067**	**.00038**	**.00021**	**.00023**	**.00041**	**.00021**	**.00039**	**-.00994**	**.00028**
Stddev	.00011	.00070	.00131	.00794	.00022	.00008	.00049	.00022	.00069	.00067	.00069
%RSD	5.0199	13.047	194.69	2107.3	101.27	35.933	120.29	107.66	176.22	6.6967	248.19
#1	-.00222	.00489	-.00160	-.00524	.00036	.00017	.00006	.00005	.00088	-.01041	.00076
#2	-.00207	.00588	.00025	.00599	.00006	.00028	.00076	.00036	-.00010	-.00947	-.00021
Check ?	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.00314									
Low Limit		-.00314									

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.00178**	**.00084**
Stddev	.00027	.00188
%RSD	15.277	224.07
#1	.00159	-.00049
#2	.00197	.00217
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5500.9**	**71415.**	**4948.1**
Stddev	4.3	306.	21.2
%RSD	.07787	.42875	.42851
#1	5497.9	71199.	4933.2
#2	5503.9	71632.	4963.1

Sample Name: CCVL1192076 Acquired: 12/28/2011 15:41:12 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01032**	**.09186**	**.01425**	**.10828**	**.01004**	**.00092**	**.11732**	**.19892**	**.00505**	**.01054**	**.01014**
Stddev	.00002	.00142	.00015	.00017	.00014	.00002	.00113	.00088	.00003	.00005	.00007
%RSD	.17573	1.5430	1.0385	.16001	1.4178	2.0517	.96121	.44241	.52451	.46003	.65714
#1	.01031	.09086	.01436	.10841	.00994	.00090	.11812	.19955	.00503	.01051	.01009
#2	.01033	.09287	.01415	.10816	.01014	.00093	.11652	.19830	.00507	.01058	.01019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01507**	**.10879**	**2.9350**	W **.01292**	**.21483**	**.01014**	**.01963**	**1.0251**	**.04236**	**2.9186**	**.00918**
Stddev	.00022	.00229	.0347	.00078	.00140	.00004	.00025	.0155	.00004	.0057	.00062
%RSD	1.4347	2.1050	1.1831	6.0271	.65069	.39653	1.2794	1.5157	.09506	.19710	6.7408
#1	.01523	.11041	2.9105	.01348	.21384	.01017	.01980	1.0141	.04239	2.9227	.00962
#2	.01492	.10718	2.9596	.01237	.21582	.01012	.01945	1.0360	.04233	2.9146	.00874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				20.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.01002**	**.01321**	**.46833**	**.10030**	**.01021**	**.01398**	**.01003**	**.01663**	**.06779**	**.01001**
Stddev	.00075	.00031	.00165	.00746	.00100	.00003	.00016	.00019	.00036	.00600	.00059
%RSD	118.65	3.1221	12.504	1.5927	.99392	.26883	1.1182	1.9216	2.1523	8.8465	5.8877
#1	-.00116	.01024	.01205	.46306	.10100	.01023	.01409	.01016	.01638	.07203	.01043
#2	-.00010	.00980	.01438	.47361	.09959	.01019	.01387	.00989	.01688	.06355	.00959
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02206**	**.01714**
Stddev	.00026	.00044
%RSD	1.1695	2.5649
#1	.02188	.01745
#2	.02224	.01683
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5652.5**	**73099.**	**5070.4**
Stddev	13.1	229.	19.3
%RSD	.23088	.31362	.38010
#1	5661.7	73261.	5084.0
#2	5643.2	72937.	5056.8

Sample Name: MB 280-100121/1-A Acquired: 12/28/2011 15:43:42 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.01782**	**.00159**	W **.00577**	**.00020**	**-.00005**	**-.00229**	**.00700**	**-.00002**	**-.00007**
Stddev	.00034	.00029	.00040	.00015	.00028	.00002	.00035	.00134	.00004	.00015
%RSD	304.52	1.6224	25.192	2.5951	136.19	53.047	15.175	19.208	276.38	213.39
#1	-.00013	-.01803	.00187	.00588	.00040	-.00003	-.00204	.00795	-.00004	-.00017
#2	.00035	-.01762	.00131	.00567	.00001	-.00006	-.00253	.00605	.00001	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00500						
Low Limit				-.00500						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00006**	**.01300**	**.03601**	**.00403**	**.00452**	**-.00004**	**.00025**	**.01613**	**.00020**
Stddev	.00004	.00009	.00196	.00599	.00034	.00147	.00002	.00006	.01104	.00025
%RSD	106.69	152.65	15.087	16.647	8.4060	32.459	53.765	24.493	68.441	123.87
#1	.00001	-.00012	.01161	.04024	.00426	.00348	-.00002	.00021	.02394	.00037
#2	.00006	.00000	.01438	.03177	.00379	.00556	-.00005	.00030	.00832	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00053**	**.00254**	**.00201**	**.00029**	**-.00484**	**.00008**	**.00028**	**.00081**	**-.00017**
Stddev	.00197	.00072	.00081	.00006	.00009	.00392	.00090	.00003	.00029	.00013
%RSD	881.15	136.65	31.879	3.1573	31.021	80.898	1100.1	12.339	35.700	74.652
#1	.00162	.00104	.00312	.00205	.00022	-.00761	-.00055	.00026	.00102	-.00027
#2	-.00117	.00002	.00197	.00196	.00035	-.00207	.00072	.00031	.00061	-.00008
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00128**	**-.00204**	**.00013**	**.00232**	**.00094**
Stddev	.00003	.00054	.00022	.00026	.00181
%RSD	2.4749	26.468	172.80	11.302	192.65
#1	-.00130	-.00166	-.00003	.00251	-.00034
#2	-.00126	-.00243	.00028	.00214	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5569.5**	**72358.**	**5036.2**
Stddev	3.9	3.	4.3
%RSD	.06981	.00420	.08571
#1	5572.2	72360.	5039.3
#2	5566.7	72356.	5033.2

Sample Name: LCS 280-100121/2-A Acquired: 12/28/2011 15:46:14 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05395**	**1.9634**	**.98852**	**.98451**	**2.0063**	**.04934**	**2.1544**	**49.305**	**.09532**	**.49543**
Stddev	.00018	.0068	.00558	.00147	.0034	.00021	.0007	.067	.00005	.00079
%RSD	.33587	.34501	.56489	.14979	.16998	.43339	.03389	.13674	.05052	.15900
#1	.05408	1.9586	.99247	.98347	2.0087	.04950	2.1549	49.353	.09529	.49487
#2	.05382	1.9682	.98457	.98555	2.0039	.04919	2.1539	49.257	.09535	.49599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20129**	**.24918**	**1.0020**	**50.216**	**.99823**	**48.743**	**.50280**	**1.0064**	**50.717**	**.49993**
Stddev	.00018	.00016	.0047	.115	.00041	.075	.00109	.0019	.162	.00056
%RSD	.08981	.06595	.46785	.22949	.04079	.15316	.21769	.18846	.32020	.11123
#1	.20142	.24929	1.0053	50.297	.99852	48.690	.50203	1.0050	50.602	.49954
#2	.20116	.24906	.99867	50.135	.99794	48.795	.50358	1.0077	50.831	.50032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.057**	**.49778**	**.00909**	**.49325**	**1.9182**	**9.9121**	**1.9747**	**1.0032**	**.99232**	**1.0146**
Stddev	.016	.00006	.00330	.00091	.0049	.0069	.0031	.0042	.00289	.0018
%RSD	.15697	.01134	36.261	.18458	.25517	.06919	.15834	.41951	.29120	.17499
#1	10.046	.49774	.01142	.49390	1.9216	9.9169	1.9725	1.0061	.99028	1.0133
#2	10.069	.49782	.00676	.49261	1.9147	9.9072	1.9770	1.0002	.99437	1.0159
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9746**	**2.0926**	**.51401**	**.49281**	**.48323**
Stddev	.0016	.0243	.00171	.00115	.00351
%RSD	.08184	1.1605	.33190	.23405	.72691
#1	1.9757	2.1098	.51281	.49199	.48075
#2	1.9735	2.0755	.51522	.49362	.48572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5359.4**	**68412.**	**4968.9**
Stddev	2.9	129.	4.6
%RSD	.05321	.18847	.09334
#1	5361.4	68503.	4965.6
#2	5357.4	68321.	4972.2

Sample Name: 280-23761-A-4-A Acquired: 12/28/2011 15:48:28 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.02290**	**.02519**	**.89518**	**.16360**	**-.00004**	**-.00025**	**17.673**	**-.00016**	**.00025**
Stddev	.00046	.00084	.00121	.00226	.00057	.00003	.00059	.034	.00005	.00003
%RSD	595.47	3.6900	4.8147	.25228	.34584	76.344	239.07	.18993	30.821	11.746
#1	.00025	.02230	.02433	.89677	.16320	-.00002	-.00066	17.649	-.00020	.00023
#2	-.00041	.02349	.02605	.89358	.16400	-.00006	.00017	17.696	-.00013	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00133**	**.06987**	**33.393**	**.11839**	**17.141**	**.01822**	**.01448**	**424.95**	**.00179**
Stddev	.00004	.00042	.00003	.060	.00149	.045	.00004	.00021	1.00	.00001
%RSD	36.769	31.739	.03957	.18020	1.2569	.26417	.22501	1.4460	.23612	.65265
#1	.00008	.00163	.06985	33.351	.11944	17.109	.01819	.01433	424.25	.00180
#2	.00014	.00103	.06989	33.436	.11734	17.173	.01825	.01462	425.66	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03265**	**.00013**	**2.5595**	**.00553**	**.00287**	**6.3731**	**.00028**	**1.3986**	**.00095**	**.00119**
Stddev	.00043	.00011	.0002	.00110	.00112	.0124	.00026	.0000	.00019	.00013
%RSD	1.3060	84.953	.00939	19.816	39.151	.19387	90.011	.00225	19.575	10.743
#1	.03235	.00005	2.5597	.00475	.00208	6.3644	.00010	1.3986	.00082	.00128
#2	.03295	.00021	2.5594	.00630	.00367	6.3819	.00047	1.3985	.00108	.00110
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**.01475**	**.00161**	**.00334**	**.00225**
Stddev	.00006	.01728	.00002	.00020	.00113
%RSD	6.5661	117.12	.98274	6.0329	50.195
#1	.00088	.00254	.00162	.00348	.00145
#2	.00080	.02697	.00160	.00320	.00304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5171.1**	**65343.**	**4937.5**
Stddev	3.6	37.	19.5
%RSD	.06934	.05608	.39532
#1	5168.6	65369.	4951.3
#2	5173.6	65317.	4923.7

Sample Name: 280-23761-A-12-A Acquired: 12/28/2011 15:51:01 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.01877**	**.00116**	**.00555**	**.00056**	**-.00013**	**-.00136**	**.01399**	**.00001**	**.00009**
Stddev	.00001	.00017	.00072	.00091	.00008	.00003	.00220	.00066	.00002	.00004
%RSD	5.6357	.90877	62.209	16.467	14.238	21.206	161.37	4.7441	322.40	42.510
#1	.00019	-.01889	.00065	.00620	.00050	-.00011	-.00292	.01352	-.00001	.00012
#2	.00018	-.01865	.00166	.00490	.00061	-.00015	.00019	.01446	.00002	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00064**	**.01294**	**.09657**	**.00390**	**.00732**	**-.00001**	**.00012**	**.27076**	**.00005**
Stddev	.00003	.00035	.00250	.01388	.00096	.00282	.00001	.00024	.03777	.00008
%RSD	112.84	54.288	19.338	14.371	24.723	38.484	72.115	195.70	13.950	178.55
#1	-.00004	.00089	.01117	.10639	.00458	.00931	-.00001	-.00005	.29746	.00010
#2	.00000	.00040	.01471	.08676	.00322	.00533	-.00002	.00029	.24405	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00128**	**-.00086**	**.00130**	**.00050**	**.00007**	**.00605**	**.00005**	**.00057**	**.00119**	**.00012**
Stddev	.00227	.00014	.00022	.00212	.00028	.01092	.00014	.00006	.00089	.00032
%RSD	177.20	16.192	17.252	420.29	381.49	180.43	312.12	10.002	75.225	266.76
#1	-.00288	-.00076	.00146	-.00099	-.00012	.01378	.00014	.00061	.00182	.00034
#2	.00032	-.00095	.00114	.00200	.00027	-.00167	-.00005	.00053	.00056	-.00011
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.02491**	**-.00033**	**.00260**	**.00233**
Stddev	.00092	.01929	.00020	.00019	.00042
%RSD	95.266	77.410	60.276	7.4268	18.241
#1	-.00162	.03855	-.00019	.00274	.00203
#2	-.00032	.01128	-.00048	.00246	.00263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5558.3**	**72180.**	**4975.3**
Stddev	7.8	573.	10.0
%RSD	.14071	.79348	.20123
#1	5563.8	71775.	4968.3
#2	5552.8	72585.	4982.4

Sample Name: 280-23761-A-23-A Acquired: 12/28/2011 15:53:33 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**2.5012**	**.01204**	**.79836**	**.13591**	**.00007**	**-.00464**	**33.243**	**.00038**	**.00271**
Stddev	.00026	.0078	.00241	.00022	.00060	.00006	.00044	.073	.00017	.00002
%RSD	242.56	.31167	19.996	.02761	.43901	89.320	9.4613	.21903	44.999	.76866
#1	.00029	2.4957	.01033	.79820	.13549	.00012	-.00495	33.192	.00050	.00272
#2	-.00008	2.5067	.01374	.79852	.13633	.00003	-.00433	33.295	.00026	.00269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00601**	**.00834**	**5.7302**	**17.668**	**.08378**	**15.440**	**.12834**	**.07037**	**435.72**	**.01582**
Stddev	.00002	.00025	.0025	.077	.00092	.082	.00033	.00001	1.29	.00027
%RSD	.38381	2.9382	.04391	.43622	1.0923	.53295	.25468	.01357	.29613	1.7071
#1	.00603	.00817	5.7284	17.614	.08313	15.498	.12857	.07037	434.81	.01601
#2	.00600	.00852	5.7320	17.723	.08442	15.381	.12811	.07036	436.64	.01563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05536**	**.00267**	**3.1623**	**.00198**	**.00010**	**8.7513**	**-.00042**	**1.2288**	**.00093**	**.04481**
Stddev	.00214	.00018	.0079	.00041	.00024	.0204	.00005	.0032	.00012	.00014
%RSD	3.8646	6.7476	.24889	20.779	241.27	.23326	12.638	.25596	13.294	.31077
#1	.05385	.00280	3.1567	.00169	-.00007	8.7369	-.00046	1.2266	.00084	.04491
#2	.05688	.00255	3.1678	.00227	.00027	8.7658	-.00038	1.2310	.00102	.04471
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00918**	**.01563**	**.02874**	**.00360**
Stddev	.00092	.00372	.00008	.00004	.00005
%RSD	355.82	40.518	.51867	.12486	1.2959
#1	.00091	-.01181	.01569	.02872	.00364
#2	-.00039	-.00655	.01557	.02877	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5232.3**	**65476.**	**4915.0**
Stddev	5.2	300.	8.9
%RSD	.09912	.45778	.18203
#1	5236.0	65264.	4921.3
#2	5228.7	65688.	4908.7

Sample Name: 280-23786-A-4-A Acquired: 12/28/2011 15:56:04 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**8.8646**	**.01208**	**.06455**	**.10614**	**.00063**	**-.00887**	**172.08**	**.00060**	**.01329**
Stddev	.00005	.0036	.00011	.00018	.00045	.00004	.00069	.41	.00021	.00004
%RSD	34.093	.04083	.89813	.27732	.42349	6.1194	7.7380	.23753	35.246	.32391
#1	.00018	8.8621	.01200	.06468	.10582	.00066	-.00838	171.79	.00075	.01326
#2	.00011	8.8672	.01216	.06443	.10646	.00060	-.00935	172.37	.00045	.01332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01991**	**.01723**	**58.198**	**5.3079**	**.03670**	**68.180**	**.47672**	**.00727**	**14.760**	**.03045**
Stddev	.00012	.00009	.077	.0222	.00046	.243	.00154	.00003	.007	.00056
%RSD	.59283	.54873	.13148	.41832	1.2529	.35661	.32238	.42701	.04486	1.8302
#1	.01983	.01730	58.252	5.3236	.03702	68.008	.47563	.00730	14.756	.03006
#2	.01999	.01717	58.144	5.2922	.03637	68.352	.47781	.00725	14.765	.03084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38563**	**.01518**	**145.00**	**.00014**	**.00001**	**35.656**	**.00026**	**1.3846**	**-.00291**	**.08408**
Stddev	.00113	.00017	.14	.00096	.00007	.085	.00140	.0028	.00003	.00029
%RSD	.29269	1.1255	.09550	675.83	825.76	.23965	544.06	.20348	.87673	.34896
#1	.38484	.01506	144.90	.00082	.00006	35.595	-.00073	1.3826	-.00293	.08429
#2	.38643	.01530	145.10	-.00054	-.00004	35.716	.00124	1.3866	-.00289	.08387
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.05725**	**.04039**	**.08779**	**.00434**
Stddev	.00037	.01912	.00023	.00090	.00064
%RSD	73.930	33.390	.56846	1.0306	14.733
#1	-.00077	.04373	.04023	.08715	.00389
#2	-.00024	.07077	.04055	.08843	.00480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5296.1**	**68131.**	**4981.7**
Stddev	5.7	395.	30.6
%RSD	.10784	.58041	.61453
#1	5300.1	68411.	5003.3
#2	5292.1	67851.	4960.0

Sample Name: 1141954@100 Acquired: 12/28/2011 15:58:29 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04931**	**.97583**	**.19059**	**.00317**	**.09611**	**.04673**	**.00069**	**19.053**	**.04851**	**.04864**
Stddev	.00018	.00059	.00233	.00027	.00015	.00010	.00015	.002	.00010	.00008
%RSD	.35503	.06096	1.2248	8.4009	.15976	.20809	21.701	.01219	.20507	.16897
#1	.04944	.97541	.19225	.00298	.09622	.04680	.00080	19.051	.04844	.04869
#2	.04919	.97625	.18894	.00336	.09601	.04666	.00059	19.054	.04858	.04858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04884**	**.04761**	**.99384**	**18.949**	**.10048**	**18.901**	**.04833**	**-.00023**	**19.758**	**.04884**
Stddev	.00015	.00007	.00752	.008	.00001	.079	.00022	.00032	.499	.00030
%RSD	.31159	.14425	.75646	.04255	.01001	.41656	.46365	140.65	2.5241	.62038
#1	.04895	.04757	.99916	18.955	.10049	18.956	.04849	.00000	19.405	.04863
#2	.04874	.04766	.98853	18.944	.10047	18.845	.04818	-.00046	20.110	.04906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.9497**	**.09800**	**.02673**	**-.00176**	**.18875**	**.01215**	**.00050**	**.05003**	**.18550**	**-.00087**
Stddev	.0004	.00047	.00520	.00117	.00075	.00033	.00043	.00010	.00035	.00012
%RSD	.02162	.47613	19.457	66.622	.39668	2.6862	85.942	.19759	.18994	13.788
#1	1.9494	.09833	.03041	-.00259	.18822	.01192	.00020	.05010	.18525	-.00095
#2	1.9500	.09767	.02305	-.00093	.18928	.01239	.00081	.04996	.18575	-.00078
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19960**	**.50315**	**.04873**	**.19225**	**-.00280**
Stddev	.00040	.00262	.00034	.00047	.00104
%RSD	.20158	.52018	.69515	.24674	37.256
#1	.19932	.50130	.04897	.19192	-.00206
#2	.19989	.50500	.04849	.19259	-.00353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5451.4**	**69824.**	**4964.3**
Stddev	1.1	4.	13.0
%RSD	.01996	.00639	.26170
#1	5452.2	69821.	4973.5
#2	5450.7	69827.	4955.1

Sample Name: 1141955@100 Acquired: 12/28/2011 16:00:54 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.02258**	**.00219**	**.10021**	**.00001**	**-.00002**	**.00029**	**.01552**	**-.00002**	**.00007**
Stddev	.00088	.00016	.00179	.00065	.00018	.00006	.00162	.00223	.00009	.00013
%RSD	373.27	.70636	81.877	.64375	1227.7	264.79	562.49	14.347	488.55	182.21
#1	.00086	-.02247	.00092	.09976	-.00011	-.00006	-.00086	.01709	-.00008	-.00002
#2	-.00039	-.02270	.00346	.10067	.00014	.00002	.00143	.01394	.00004	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00013**	**.06394**	**.06543**	**.00393**	**.00927**	**.00062**	**.04890**	**.09048**	**.00051**
Stddev	.0001	.00019	.00377	.02019	.00117	.00317	.00002	.00011	.00787	.00007
%RSD	3511.0	143.29	5.8910	30.849	29.916	34.194	3.3806	.22865	8.7033	12.813
#1	.00008	-.00027	.06661	.07971	.00476	.01151	.00061	.04882	.08491	.00046
#2	-.00008	.00000	.06128	.05116	.00310	.00703	.00064	.04898	.09605	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00215**	**-.00086**	**.00858**	**.09878**	**.00087**	**4.7704**	**.10087**	**.00024**	**.00021**	**.04931**
Stddev	.00127	.00069	.00117	.00136	.00008	.0049	.00057	.00005	.00169	.00008
%RSD	59.117	80.759	13.693	1.3744	9.6012	.10300	.56683	20.143	813.39	.16873
#1	-.00125	-.00134	.00941	.09782	.00081	4.7738	.10128	.00027	.00140	.04925
#2	-.00305	-.00037	.00775	.09974	.00093	4.7669	.10047	.00020	-.00099	.04937
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00271**	**-.00038**	**.00131**	**.05167**
Stddev	.00167	.02382	.00012	.00007	.00226
%RSD	527.75	879.23	30.932	5.2210	4.3799
#1	-.00150	-.01413	-.00046	.00136	.05007
#2	.00087	.01955	-.00030	.00126	.05327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5629.9**	**72616.**	**5021.1**
Stddev	3.9	208.	22.2
%RSD	.07012	.28685	.44182
#1	5632.7	72764.	5036.8
#2	5627.1	72469.	5005.4

Sample Name: CCVH-1190977 Acquired: 12/28/2011 16:03:25 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00295**	**49.490**	**-.00095**	**.00413**	**.00025**	**.00004**	**1.0231**	**.01261**	**-.00158**	**.00224**	**-.00012**	**-.00205**	**49.493**
Stddev	.00016	.185	.00134	.00064	.00007	.00003	.0056	.00505	.00008	.00004	.00020	.00004	.394
%RSD	5.3340	.37475	140.36	15.571	30.111	68.395	.54869	40.029	4.9839	1.7134	161.06	2.0481	.79514
#1	.00306	49.621	-.00001	.00458	.00020	.00006	1.0191	.01618	-.00153	.00226	-.00026	-.00202	49.771
#2	.00284	49.358	-.00190	.00367	.00030	.00002	1.0271	.00904	-.00164	.00221	.00002	-.00208	49.215
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06296**	**.00620**	**.02376**	**-.00069**	**-.00101**	**248.31**	**.00185**	**.00611**	**.00211**	**5.2792**	**-.00450**	**-.00054**	**-.00806**
Stddev	.02141	.00124	.00417	.00003	.00011	.86	.00016	.00363	.00096	.0060	.00082	.00192	.01728
%RSD	34.013	19.931	17.551	5.0088	11.224	.34502	8.5470	59.377	45.526	.11424	18.257	357.46	214.31
#1	.04782	.00707	.02670	-.00067	-.00109	248.91	.00173	.00868	.00143	5.2750	-.00509	.00082	-.02028
#2	.07810	.00533	.02081	-.00072	-.00093	247.70	.00196	.00354	.00280	5.2835	-.00392	-.00189	.00416
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00054**	**5.0068**	**-.02403**	**.00069**	**10.235**	**.00517**	**.00236**	**-.10760**
Stddev	.00104	.00009	.0129	.00040	.00071	.027	.00028	.00050	.00070
%RSD	132.85	16.279	.25680	1.6509	103.67	.26059	5.3747	21.216	.65081
#1	.00152	.00060	5.0158	-.02375	.00018	10.254	.00537	.00272	-.10810
#2	.00005	.00048	4.9977	-.02431	.00119	10.216	.00498	.00201	-.10711
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5358.2**	**67902.**	**4939.1**
Stddev	14.5	145.	21.5
%RSD	.26972	.21314	.43491
#1	5368.4	67800.	4923.9
#2	5348.0	68005.	4954.3

Sample Name: CCV-1190978 Acquired: 12/28/2011 16:05:50 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51176**	**.51107**	**1.0030**	**.50504**	**.50664**	**.49440**	**-.00030**	**5.0976**	**.50593**	**.51176**	**.50870**	**.50119**	**2.5407**
Stddev	.00015	.00316	.0026	.00079	.00061	.00078	.00183	.0074	.00118	.00124	.00145	.00017	.0110
%RSD	.02872	.61782	.26334	.15652	.12056	.15806	599.24	.14573	.23238	.24135	.28593	.03399	.43289
#1	.51186	.50884	1.0011	.50560	.50708	.49495	.00099	5.1028	.50676	.51263	.50972	.50107	2.5484
#2	.51165	.51331	1.0048	.50448	.50621	.49384	-.00160	5.0923	.50510	.51088	.50767	.50131	2.5329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.975**	**1.0079**	**20.180**	**.50056**	**.50279**	**5.1919**	**.51060**	**.99674**	**1.0205**	**.00143**	**.99283**	**.99426**	**4.9664**
Stddev	.054	.0053	.020	.00081	.00175	.0401	.00126	.00240	.0001	.00002	.00410	.00241	.0035
%RSD	.10887	.52243	.09893	.16276	.34900	.77335	.24646	.24047	.01012	1.5332	.41298	.24209	.07132
#1	50.013	1.0042	20.166	.49998	.50403	5.2202	.51149	.99844	1.0206	.00142	.99573	.99596	4.9639
#2	49.936	1.0116	20.194	.50113	.50155	5.1635	.50971	.99505	1.0205	.00145	.98993	.99256	4.9689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0027**	**.50005**	**-.00536**	**.50343**	**1.0390**	**.00288**	**.50887**	**.50631**	**.49743**
Stddev	.0035	.00066	.00056	.00229	.0014	.02456	.00245	.00132	.00281
%RSD	.35322	.13199	10.459	.45467	.13084	854.00	.48242	.26041	.56573
#1	1.0053	.50051	-.00576	.50181	1.0400	.02025	.50713	.50538	.49942
#2	1.0002	.49958	-.00497	.50505	1.0380	-.01449	.51060	.50724	.49544
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5469.9**	**69747.**	**4943.2**
Stddev	11.4	337.	5.0
%RSD	.20842	.48358	.10091
#1	5461.8	69985.	4946.7
#2	5477.9	69508.	4939.7

Sample Name: CCB Acquired: 12/28/2011 16:08:06 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	W **-.02231**	**.00081**	W **.00284**	**.00037**	**.00016**	**-.00280**	**.00332**	**.00017**	**.00002**	**.00026**
Stddev	.00002	.00040	.00143	.00035	.00015	.00001	.00044	.00033	.00008	.00000	.00006
%RSD	4.3014	1.8001	175.79	12.224	40.264	6.0162	15.648	10.030	47.119	6.7721	24.459
#1	.00041	-.02260	-.00020	.00308	.00026	.00015	-.00311	.00309	.00022	.00002	.00031
#2	.00043	-.02203	.00183	.00259	.00047	.00016	-.00249	.00356	.00011	.00002	.00022
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00156							
Low Limit		-.01800		-.00156							

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00301**	**.09059**	**.00100**	**.00384**	**-.00007**	**.00042**	**.07935**	**.00005**	**-.00067**	**-.00063**
Stddev	.00016	.00217	.01071	.00174	.00426	.00001	.00007	.02004	.00000	.00043	.00064
%RSD	66.047	72.154	11.824	173.51	110.99	11.037	16.800	25.251	3.3059	63.556	101.18
#1	-.00036	.00455	.09816	-.00023	.00686	-.00007	.00037	.09352	.00004	-.00037	-.00018
#2	-.00013	.00148	.08301	.00223	.00083	-.00006	.00047	.06518	.00005	-.00098	-.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	F **.00635**	**.00072**	**-.00263**	**.00050**	**.00028**	**-.00096**	**.00000**	**-.00106**	**.01005**	**.00010**
Stddev	.00032	.00022	.00008	.00465	.00044	.00001	.00163	.0003	.00019	.02567	.00038
%RSD	244.45	3.4671	10.453	176.83	87.564	4.0076	169.55	12893.	17.811	255.38	391.80
#1	-.00009	.00650	.00078	.00066	.00019	.00028	-.00211	-.00018	-.00120	.02821	-.00017
#2	.00036	.00619	.00067	-.00591	.00081	.00027	.00019	.00017	-.00093	-.00810	.00036
Check ?	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.00628									
Low Limit		-.00628									

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.00142**	**.00114**
Stddev	.00038	.00171
%RSD	26.927	150.52
#1	.00169	.00235
#2	.00115	-.00007
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5449.6**	**70652.**	**4908.4**
Stddev	3.6	15.	13.6
%RSD	.06629	.02132	.27635
#1	5447.1	70641.	4918.0
#2	5452.2	70663.	4898.8

Sample Name: CCVL1192076 Acquired: 12/28/2011 16:10:38 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01102**	**.08661**	**.01665**	**.10305**	**.00975**	**.00090**	**.11859**	**.20000**	**.00504**	**.01079**	**.01006**	**.01533**
Stddev	.00017	.00121	.00164	.00049	.00005	.00008	.00075	.00136	.00006	.00009	.00011	.00020
%RSD	1.5336	1.3982	9.8463	.47924	.49880	8.9612	.62889	.67980	1.1578	.86135	1.0534	1.3188
#1	.01090	.08575	.01549	.10270	.00971	.00096	.11806	.19904	.00508	.01085	.01013	.01547
#2	.01114	.08746	.01781	.10340	.00978	.00084	.11912	.20097	.00499	.01072	.00998	.01519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10038**	**2.9237**	F **.01445**	**.21494**	**.01006**	**.01956**	**1.0655**	**.04226**	**2.9178**	**.00966**	**.00398**	**.01002**
Stddev	.00022	.0390	.00044	.00016	.00005	.00024	.0044	.00015	.0084	.00007	.00107	.00103
%RSD	.22014	1.3335	3.0599	.07554	.50451	1.2031	.41243	.36068	.28958	.73540	26.868	10.315
#1	.10054	2.8961	.01413	.21505	.01002	.01939	1.0624	.04215	2.9119	.00971	.00322	.01075
#2	.10022	2.9512	.01476	.21482	.01009	.01973	1.0686	.04237	2.9238	.00961	.00473	.00929
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value			.01000									
Range			30.000%									

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01248**	**.49052**	**.10009**	**.01014**	**.01375**	**.01016**	**.01639**	**.05896**	**.01028**	**.02219**	**.01546**
Stddev	.00068	.01189	.00007	.00005	.00004	.00011	.00123	.01683	.00016	.00079	.00002
%RSD	5.4270	2.4233	.07328	.49060	.29375	1.1082	7.5241	28.547	1.5907	3.5610	.13605
#1	.01200	.49893	.10014	.01017	.01378	.01024	.01727	.04706	.01040	.02275	.01545
#2	.01296	.48212	.10003	.01010	.01372	.01008	.01552	.07087	.01017	.02163	.01548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5609.8**	**72239.**	**5046.8**
Stddev	6.9	364.	25.9
%RSD	.12292	.50395	.51416
#1	5614.7	72496.	5065.2
#2	5605.0	71981.	5028.5

Sample Name: 280-23786-A-12-A Acquired: 12/28/2011 16:13:06 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**8.7823**	**.01385**	**.07622**	**.09549**	**.00064**	**-.00638**	**204.34**	**.00098**	**.01461**
Stddev	.00022	.0077	.00045	.00018	.00084	.00004	.00234	.13	.00015	.00015
%RSD	61.442	.08781	3.2153	.23471	.87933	5.6079	36.642	.06259	15.243	1.0174
#1	.00020	8.7769	.01354	.07609	.09490	.00067	-.00473	204.25	.00109	.01450
#2	.00052	8.7878	.01417	.07634	.09609	.00061	-.00803	204.43	.00088	.01471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02181**	**.02031**	**55.003**	**6.1769**	**.03770**	**107.20**	**.93833**	**.01347**	**38.977**	**.03497**
Stddev	.00012	.00006	.001	.0386	.00141	.44	.00318	.00037	.298	.00013
%RSD	.55606	.30986	.00149	.62406	3.7495	.41105	.33884	2.7430	.76480	.37752
#1	.02173	.02027	55.002	6.1497	.03870	107.51	.94058	.01321	38.766	.03488
#2	.02190	.02036	55.003	6.2042	.03670	106.88	.93608	.01374	39.188	.03507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.56470**	**.01596**	**215.66**	**.00205**	**.00249**	**34.872**	**-.00063**	**1.7332**	**-.00134**	**.08692**
Stddev	.00150	.00104	.24	.00163	.00173	.023	.00056	.0022	.00115	.00077
%RSD	.26541	6.5081	.10909	79.592	69.477	.06501	87.663	.12657	85.348	.88423
#1	.56364	.01522	215.50	.00320	.00127	34.888	-.00103	1.7317	-.00216	.08747
#2	.56576	.01669	215.83	.00090	.00372	34.856	-.00024	1.7348	-.00053	.08638
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.02198**	**.04369**	**.10611**	**.00633**
Stddev	.00028	.02177	.00016	.00028	.00032
%RSD	43.242	99.083	.36498	.26251	5.0420
#1	.00083	.00658	.04357	.10591	.00610
#2	.00044	.03737	.04380	.10631	.00655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5185.7**	**66604.**	**4921.1**
Stddev	15.9	59.	1.2
%RSD	.30659	.08863	.02342
#1	5174.4	66562.	4921.9
#2	5196.9	66645.	4920.3

Sample Name: sd 23786-A-12-A@5 Acquired: 12/28/2011 16:15:32 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**1.7882**	**.00303**	**.01662**	**.01941**	**.00010**	**-.00288**	**41.290**	**.00032**	**.00296**
Stddev	.00023	.0005	.00180	.00059	.00010	.00004	.00247	.174	.00013	.00009
%RSD	396.32	.03002	59.449	3.5442	.53353	40.597	85.614	.42028	40.438	3.1708
#1	.00010	1.7878	.00430	.01620	.01948	.00007	-.00463	41.412	.00041	.00289
#2	-.00022	1.7886	.00175	.01704	.01934	.00013	-.00114	41.167	.00023	.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00440**	**.00403**	**11.035**	**1.2203**	**.00769**	**21.917**	**.18928**	**.00265**	**7.5378**	**.00739**
Stddev	.00006	.00007	.052	.0023	.00122	.098	.00036	.00011	.0338	.00013
%RSD	1.2701	1.7972	.47244	.18990	15.904	.44938	.19113	4.1499	.44912	1.8213
#1	.00436	.00398	11.072	1.2187	.00683	21.987	.18953	.00257	7.5617	.00748
#2	.00444	.00408	10.998	1.2220	.00856	21.848	.18902	.00273	7.5138	.00729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10908**	**.00285**	**42.642**	**.00118**	**-.00123**	**6.9336**	**-.00030**	**.34601**	**-.00001**	**.01692**
Stddev	.00117	.00015	.049	.00006	.00167	.0295	.00010	.00131	.00039	.00066
%RSD	1.0702	5.3188	.11492	4.7000	135.63	.42504	32.386	.37727	3376.0	3.9165
#1	.10991	.00275	42.676	.00122	-.00005	6.9544	-.00036	.34694	-.00029	.01646
#2	.10826	.00296	42.607	.00114	-.00241	6.9127	-.00023	.34509	.00027	.01739
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00950**	**.00879**	**.02451**	**.00068**
Stddev	.00055	.01665	.00032	.00027	.00083
%RSD	302.85	175.32	3.6678	1.1195	121.83
#1	-.00021	.02127	.00856	.02432	.00127
#2	.00057	-.00228	.00902	.02471	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5444.9**	**69828.**	**4986.1**
Stddev	4.4	6.	2.6
%RSD	.08080	.00799	.05217
#1	5441.8	69824.	4984.2
#2	5448.0	69832.	4987.9

Sample Name: 280-23786-A-12-B MS Acquired: 12/28/2011 16:17:58 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05465**	**21.745**	**1.0080**	**1.0592**	**2.1294**	**.04899**	**2.1299**	**250.94**	**.09664**	**.49076**
Stddev	.00036	.137	.0074	.0019	.0057	.00001	.0058	.22	.00009	.00128
%RSD	.66214	.63209	.73742	.17432	.26972	.01144	.27090	.08571	.09663	.26094
#1	.05491	21.648	1.0028	1.0578	2.1254	.04898	2.1258	250.78	.09671	.48985
#2	.05440	21.842	1.0133	1.0605	2.1335	.04899	2.1340	251.09	.09657	.49166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22846**	**.26901**	**57.387**	**59.608**	**1.0807**	**154.17**	**1.4184**	**1.0072**	**89.928**	**.51483**
Stddev	.00037	.00064	.059	.000	.0014	.77	.0016	.0017	.298	.00033
%RSD	.16024	.23934	.10269	.00037	.12460	.49974	.11267	.16902	.33150	.06404
#1	.22820	.26855	57.429	59.608	1.0816	154.71	1.4195	1.0060	89.717	.51459
#2	.22872	.26946	57.346	59.608	1.0797	153.62	1.4173	1.0084	90.139	.51506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.528**	**.49160**	**215.57**	**.48294**	**1.9234**	W **60.054**	**1.8971**	**2.7362**	**.98836**	**1.1136**
Stddev	.021	.00143	.24	.00443	.0000	.024	.0026	.0031	.00045	.0041
%RSD	.20367	.28996	.11087	.91719	.00005	.03916	.13565	.11383	.04520	.36756
#1	10.513	.49059	215.41	.48607	1.9234	60.071	1.8952	2.7340	.98868	1.1165
#2	10.543	.49261	215.74	.47981	1.9234	60.038	1.8989	2.7384	.98805	1.1107
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						50.000				
Low Limit						-.10000				

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8276**	**2.1176**	**.58125**	**.58427**	**.50873**
Stddev	.0003	.0048	.00095	.00073	.00069
%RSD	.01372	.22699	.16303	.12573	.13539
#1	1.8274	2.1142	.58192	.58479	.50824
#2	1.8277	2.1210	.58058	.58375	.50921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5107.0**	**65090.**	**4888.6**
Stddev	2.4	356.	18.5
%RSD	.04676	.54711	.37797
#1	5108.7	64838.	4875.6
#2	5105.3	65341.	4901.7

Sample Name: 280-23786-A-12-C MSD Acquired: 12/28/2011 16:20:16 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05483**	**20.503**	**1.0186**	**1.0664**	**2.1399**	**.04929**	**2.1521**	**251.14**	**.09722**	**.49367**
Stddev	.00014	.014	.0043	.0022	.0022	.00005	.0017	2.19	.00007	.00084
%RSD	.26095	.06861	.42398	.20167	.10066	.10290	.07786	.87257	.07699	.17034
#1	.05493	20.513	1.0155	1.0679	2.1384	.04933	2.1509	252.69	.09727	.49426
#2	.05473	20.493	1.0216	1.0649	2.1415	.04925	2.1533	249.59	.09717	.49307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22918**	**.26965**	**56.769**	**59.437**	**1.0782**	**154.49**	**1.4260**	**1.0121**	**90.006**	**.51658**
Stddev	.00036	.00116	.005	.115	.0023	1.35	.0059	.0014	.148	.00120
%RSD	.15842	.43115	.00882	.19377	.20950	.87438	.41620	.13305	.16462	.23301
#1	.22943	.26883	56.772	59.356	1.0766	153.53	1.4218	1.0131	90.111	.51743
#2	.22892	.27047	56.765	59.519	1.0798	155.44	1.4302	1.0112	89.901	.51573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.636**	**.49377**	**219.02**	**.48709**	**1.9417**	W **59.487**	**1.8947**	**2.7575**	**.99666**	**1.1218**
Stddev	.001	.00080	.21	.00017	.0022	.054	.0045	.0009	.00557	.0062
%RSD	.00989	.16237	.09438	.03509	.11102	.09156	.23759	.03135	.55916	.55171
#1	10.637	.49320	219.16	.48721	1.9432	59.449	1.8979	2.7568	.99272	1.1174
#2	10.636	.49433	218.87	.48697	1.9401	59.526	1.8916	2.7581	1.0006	1.1261
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						50.000				
Low Limit						-.10000				

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8389**	**2.1541**	**.58057**	**.58005**	**.50411**
Stddev	.0030	.0180	.00111	.00239	.00028
%RSD	.16469	.83560	.19171	.41284	.05626
#1	1.8368	2.1414	.57979	.57836	.50431
#2	1.8410	2.1669	.58136	.58175	.50391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5133.3**	**65913.**	**4969.1**
Stddev	13.8	280.	4.9
%RSD	.26814	.42461	.09901
#1	5123.5	66111.	4965.6
#2	5143.0	65715.	4972.5

Sample Name: 280-23786-A-20-A Acquired: 12/28/2011 16:22:36 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.42926**	**.01130**	**.02629**	**.02646**	**.00003**	**-.00281**	**91.662**	**.00042**	**.00049**
Stddev	.00009	.01044	.00047	.00101	.00008	.00004	.00199	.598	.00001	.00012
%RSD	12.762	2.4318	4.1470	3.8495	.31280	125.42	70.812	.65203	1.9576	25.298
#1	.00065	.43665	.01163	.02700	.02640	.00000	-.00140	91.240	.00041	.00058
#2	.00078	.42188	.01096	.02557	.02652	.00005	-.00421	92.085	.00043	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**.00180**	**36.424**	**2.2097**	**.03901**	**55.587**	**.91611**	**.00331**	**42.115**	**.00266**
Stddev	.00004	.00002	.203	.0027	.00012	.017	.00080	.00003	.083	.00060
%RSD	3.3742	1.0078	.55717	.12382	.29649	.03110	.08731	.76329	.19641	22.650
#1	.00125	.00182	36.281	2.2078	.03910	55.599	.91668	.00333	42.173	.00309
#2	.00119	.00179	36.568	2.2116	.03893	55.574	.91555	.00329	42.056	.00223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15771**	**.00106**	**127.61**	**.00086**	**.00415**	**28.578**	**.00059**	**.37488**	**-.00239**	**.00874**
Stddev	.00266	.00052	.26	.00013	.00012	.112	.00006	.00203	.00074	.00023
%RSD	1.6896	49.003	.20700	15.263	2.8033	.39118	10.858	.54121	31.048	2.6889
#1	.15959	.00069	127.42	.00077	.00423	28.499	.00063	.37345	-.00291	.00857
#2	.15582	.00142	127.80	.00096	.00406	28.657	.00054	.37632	-.00186	.00890
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.04271**	**.00288**	**.00748**	**.00127**
Stddev	.00110	.02334	.00023	.00050	.00018
%RSD	159.01	54.639	7.9001	6.6848	14.198
#1	.00147	.05922	.00304	.00712	.00139
#2	-.00009	.02621	.00272	.00783	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5319.0**	**68133.**	**4992.2**
Stddev	12.0	232.	30.8
%RSD	.22627	.34080	.61618
#1	5310.5	67969.	5014.0
#2	5327.5	68297.	4970.5

Sample Name: 280-23786-A-28-A Acquired: 12/28/2011 16:25:03 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00151**	**.42774**	**.00933**	**.02397**	**.02694**	**.00005**	**-.00894**	**92.049**	**.00035**	**.00037**
Stddev	.00000	.00173	.00377	.00102	.00066	.00005	.00044	.318	.00009	.00005
%RSD	.19432	.40404	40.447	4.2438	2.4645	106.51	4.9341	.34561	25.883	12.378
#1	.00150	.42652	.01200	.02469	.02741	.00009	-.00925	91.824	.00042	.00040
#2	.00151	.42896	.00666	.02325	.02647	.00001	-.00863	92.274	.00029	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00104**	**.00129**	**36.614**	**2.1742**	**.03760**	**55.710**	**.92178**	**.00263**	**42.227**	**.00227**
Stddev	.00001	.00003	.119	.0100	.00143	.208	.00339	.00015	.127	.00007
%RSD	.48551	2.1438	.32429	.46069	3.7976	.37360	.36781	5.6540	.29986	3.0447
#1	.00104	.00131	36.530	2.1812	.03861	55.563	.91938	.00273	42.138	.00232
#2	.00104	.00127	36.698	2.1671	.03659	55.858	.92418	.00252	42.317	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15677**	**.00153**	**128.26**	**.00127**	**-.00068**	**28.614**	**.00002**	**.37645**	**-.00318**	**.00941**
Stddev	.00196	.00026	.47	.00165	.00142	.099	.00087	.00182	.00026	.00071
%RSD	1.2531	16.739	.36713	130.25	209.62	.34770	5046.8	.48401	8.3291	7.5730
#1	.15538	.00171	127.92	.00010	.00033	28.543	-.00060	.37516	-.00299	.00992
#2	.15815	.00135	128.59	.00244	-.00168	28.684	.00063	.37774	-.00337	.00891
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00166**	**.01917**	**.00234**	**.00695**	**.00180**
Stddev	.00021	.01257	.00010	.00034	.00008
%RSD	12.821	65.573	4.2277	4.9336	4.2614
#1	-.00151	.02806	.00227	.00720	.00186
#2	-.00181	.01028	.00241	.00671	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5329.8**	**68354.**	**5006.9**
Stddev	.1	150.	19.1
%RSD	.00213	.21941	.38048
#1	5329.9	68460.	4993.4
#2	5329.7	68248.	5020.4

Sample Name: 280-23786-A-36-A Acquired: 12/28/2011 16:27:30 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**1.5732**	**.00420**	**.81121**	**.09034**	**.00007**	**-.00229**	**139.43**	**.00043**	**.02105**
Stddev	.00030	.0046	.00018	.00042	.00049	.00001	.00009	.53	.00016	.00032
%RSD	486.76	.29186	4.2684	.05206	.54331	17.560	3.8558	.38204	37.534	1.5340
#1	-.00015	1.5699	.00432	.81151	.09069	.00006	-.00223	139.81	.00031	.02127
#2	.00028	1.5764	.00407	.81092	.09000	.00008	-.00236	139.06	.00054	.02082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00263**	**.00240**	**5.4647**	**16.718**	**.11085**	**135.24**	**.20139**	**.00190**	**228.82**	**.04147**
Stddev	.00021	.00023	.0297	.092	.00254	.02	.00006	.00015	.84	.00040
%RSD	7.9529	9.6489	.54341	.55155	2.2907	.01293	.02784	7.8878	.36695	.95262
#1	.00278	.00224	5.4857	16.784	.11264	135.22	.20143	.00201	229.42	.04175
#2	.00248	.00257	5.4437	16.653	.10905	135.25	.20135	.00179	228.23	.04119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03992**	**.00177**	**269.89**	**-.00212**	**.00161**	**8.1482**	**-.00018**	**4.5280**	**-.00041**	**.02353**
Stddev	.00059	.00012	.28	.00191	.00128	.0610	.00067	.0181	.00134	.00018
%RSD	1.4879	6.5888	.10305	90.151	79.433	.74918	365.44	.39958	329.61	.76125
#1	.04034	.00169	270.09	-.00077	.00071	8.1914	.00029	4.5408	.00054	.02366
#2	.03950	.00185	269.70	-.00347	.00252	8.1050	-.00066	4.5152	-.00136	.02341
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.02172**	**.00616**	**.01905**	**.00181**
Stddev	.00074	.00139	.00061	.00060	.00154
%RSD	88.252	6.3901	9.8978	3.1275	85.056
#1	-.00032	.02270	.00572	.01862	.00072
#2	-.00137	.02074	.00659	.01947	.00289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5120.4**	**65647.**	**4972.1**
Stddev	1.8	5.	29.2
%RSD	.03550	.00694	.58791
#1	5119.1	65644.	4951.4
#2	5121.7	65650.	4992.7

Sample Name: 280-23786-A-47-A Acquired: 12/28/2011 16:29:56 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**1.8981**	**.00580**	**.66983**	**.11432**	**.00006**	**-.00337**	**102.70**	**.00033**	**.02599**
Stddev	.00003	.0027	.00101	.00121	.00049	.00003	.00113	.47	.00004	.00005
%RSD	105.21	.14354	17.420	.18139	.42487	55.019	33.407	.45561	11.788	.20797
#1	.00001	1.8961	.00508	.66897	.11397	.00008	-.00258	102.37	.00035	.02595
#2	.00005	1.9000	.00651	.67069	.11466	.00004	-.00417	103.03	.00030	.02603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00290**	**.00279**	**4.3367**	**14.378**	**.06967**	**82.992**	**.19424**	**.00728**	**238.78**	**.05845**
Stddev	.00010	.00034	.0217	.050	.00008	.093	.00047	.00026	1.30	.00011
%RSD	3.5178	12.143	.50121	.34915	.11448	.11229	.24337	3.5723	.54360	.18737
#1	.00283	.00303	4.3214	14.343	.06972	83.057	.19458	.00746	237.87	.05837
#2	.00297	.00255	4.3521	14.414	.06961	82.926	.19391	.00709	239.70	.05853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02072**	**.00222**	**232.31**	**.00232**	**.00120**	**6.4922**	**.00035**	**3.4260**	**.00070**	**.02649**
Stddev	.00157	.00121	.33	.00199	.00203	.0165	.00036	.0164	.00061	.00290
%RSD	7.5851	54.341	.14323	85.591	169.09	.25473	102.70	.47742	87.227	10.956
#1	.01961	.00137	232.08	.00373	.00263	6.4805	.00009	3.4144	.00113	.02443
#2	.02183	.00308	232.55	.00092	-.00023	6.5039	.00060	3.4376	.00027	.02854
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00695**	**.00678**	**.01503**	**.00115**
Stddev	.00227	.00129	.00005	.00033	.00168
%RSD	597.08	18.499	.72023	2.2042	145.73
#1	.00122	.00604	.00675	.01526	-.00004
#2	-.00198	.00786	.00682	.01479	.00234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5176.9**	**65712.**	**4917.1**
Stddev	6.5	57.	10.3
%RSD	.12631	.08724	.20974
#1	5172.2	65671.	4909.8
#2	5181.5	65752.	4924.4

Sample Name: 280-23786-A-55-A Acquired: 12/28/2011 16:32:21 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**1.5968**	**.00032**	**.94216**	**.03086**	**-.00003**	**-.00336**	**243.89**	**.00088**	**.01485**
Stddev	.00025	.0032	.00145	.00022	.00036	.00005	.00246	.04	.00005	.00014
%RSD	107.88	.19872	457.70	.02360	1.1526	142.74	73.332	.01787	6.0195	.92673
#1	-.00041	1.5946	.00135	.94200	.03061	.00000	-.00162	243.86	.00084	.01475
#2	-.00005	1.5991	-.00071	.94232	.03111	-.00007	-.00510	243.92	.00092	.01495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00280**	**.00466**	**3.6878**	**22.165**	**.22633**	W **636.37**	**.73116**	**.00500**	**313.34**	**.03698**
Stddev	.00012	.00023	.0017	.022	.00146	4.44	.00127	.00004	.24	.00039
%RSD	4.4101	4.8759	.04479	.09709	.64370	.69772	.17405	.72873	.07695	1.0527
#1	.00289	.00450	3.6867	22.150	.22737	639.51	.73206	.00497	313.17	.03725
#2	.00271	.00482	3.6890	22.181	.22530	633.23	.73026	.00502	313.51	.03670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						500.00				
Low Limit						-.10000				

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03061**	**.00149**	**847.25**	**.00349**	**-.00006**	**7.2902**	**-.00104**	**4.5979**	**-.00076**	**.02447**
Stddev	.00083	.00017	.60	.00078	.00499	.0193	.00005	.0007	.00004	.00005
%RSD	2.6968	11.364	.07130	22.463	9026.5	.26412	4.8066	.01522	5.4266	.22456
#1	.03119	.00137	847.67	.00405	.00347	7.3038	-.00108	4.5984	-.00073	.02450
#2	.03003	.00161	846.82	.00294	-.00358	7.2766	-.00101	4.5974	-.00079	.02443
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00126**	**.02041**	**.00749**	**.02816**	**.00283**
Stddev	.00062	.00804	.00013	.00029	.00197
%RSD	49.033	39.383	1.7196	1.0299	69.466
#1	-.00170	.01473	.00758	.02795	.00422
#2	-.00082	.02610	.00740	.02836	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4861.6**	**61876.**	**4804.9**
Stddev	5.9	227.	6.4
%RSD	.12043	.36694	.13245
#1	4857.5	61715.	4809.4
#2	4865.7	62036.	4800.4

Sample Name: 280-23786-A-63-A Acquired: 12/28/2011 16:35:36 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100121 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.01527**	**.00159**	**.00422**	**.00034**	**.00000**	**-.00155**	**.03300**	**.00010**	**-.00014**
Stddev	.00016	.00003	.00118	.00022	.00016	.00009	.00026	.00128	.00006	.00025
%RSD	398.67	.17164	74.168	5.2480	46.768	2569.8	16.598	3.8701	60.078	180.52
#1	.00016	-.01529	.00243	.00438	.00023	-.00006	-.00173	.03390	.00006	-.00032
#2	-.00007	-.01526	.00076	.00406	.00045	.00007	-.00137	.03210	.00014	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00003**	**.06480**	**.04178**	**.00401**	**.02618**	**.00013**	**-.00006**	**.22563**	**.00000**
Stddev	.00007	.00012	.00092	.00338	.00197	.00386	.00002	.00024	.02159	.0004
%RSD	46.559	424.78	1.4224	8.0913	49.139	14.742	12.632	427.72	9.5664	12953.
#1	-.00021	.00011	.06545	.03939	.00262	.02891	.00012	.00011	.24090	-.00032
#2	-.00011	-.00006	.06415	.04418	.00540	.02345	.00014	-.00023	.21037	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00159**	**-.00005**	**.10587**	**.00081**	**-.00189**	**.00020**	**.00006**	**.00051**	**.00089**	**.00003**
Stddev	.00048	.00149	.01268	.00031	.00155	.00584	.00004	.00008	.00021	.00000
%RSD	30.265	2819.7	11.977	38.218	81.938	2899.4	74.487	14.850	23.235	1.7893
#1	-.00193	-.00111	.11483	.00103	-.00079	-.00393	.00003	.00056	.00074	.00003
#2	-.00125	.00100	.09690	.00059	-.00298	.00433	.00009	.00046	.00103	.00003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.01450**	**-.00014**	**.00303**	**.00082**
Stddev	.00042	.00339	.00029	.00016	.00150
%RSD	72.267	23.365	204.14	5.2689	183.55
#1	-.00088	.01689	.00006	.00315	-.00024
#2	-.00028	.01210	-.00035	.00292	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5568.5**	**72385.**	**5039.6**
Stddev	15.1	183.	5.5
%RSD	.27105	.25237	.10959
#1	5557.8	72256.	5035.7
#2	5579.2	72514.	5043.5

Sample Name: CCVH-1190977 Acquired: 12/28/2011 16:38:08 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00315**	**50.048**	**-.00204**	**.00423**	**.00051**	**-.00001**	**1.0285**	**.02451**	**-.00157**	**.00208**	**-.00007**	**-.00195**	**49.819**
Stddev	.00011	.146	.00007	.00088	.00002	.00005	.0058	.00184	.00004	.00011	.00015	.00023	.017
%RSD	3.4454	.29091	3.1970	20.801	4.4948	560.40	.56598	7.4942	2.7304	5.3531	224.01	11.792	.03424
#1	.00323	49.945	-.00209	.00360	.00052	-.00005	1.0327	.02581	-.00154	.00200	.00004	-.00211	49.807
#2	.00307	50.151	-.00200	.00485	.00049	.00003	1.0244	.02321	-.00160	.00216	-.00018	-.00179	49.831
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07740**	**.00513**	**.03276**	**-.00063**	**-.00103**	**250.89**	**.00169**	**.00515**	**.00185**	**5.3723**	**-.00283**	**-.00037**	**.00328**
Stddev	.00781	.00090	.00058	.00001	.00012	.85	.00007	.00119	.00034	.0436	.00084	.00463	.00416
%RSD	10.090	17.642	1.7668	.95103	11.433	.33959	4.1682	23.116	18.471	.81127	29.763	1252.8	126.99
#1	.07188	.00449	.03317	-.00063	-.00111	251.50	.00174	.00599	.00161	5.4032	-.00343	.00291	.00033
#2	.08292	.00577	.03235	-.00064	-.00094	250.29	.00164	.00431	.00209	5.3415	-.00224	-.00365	.00622
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00129**	**.00054**	**5.0611**	**-.02397**	**.00224**	**10.330**	**.00533**	**.00263**	**-.10650**
Stddev	.00035	.00007	.0001	.00011	.00077	.020	.00082	.00021	.00200
%RSD	27.465	13.364	.00273	.45522	34.166	.18926	15.376	8.0217	1.8752
#1	.00154	.00049	5.0610	-.02389	.00278	10.344	.00591	.00248	-.10792
#2	.00104	.00059	5.0612	-.02405	.00170	10.316	.00475	.00278	-.10509
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5421.9**	**68504.**	**5004.0**
Stddev	41.9	233.	9.0
%RSD	.77325	.34052	.17989
#1	5392.3	68669.	4997.6
#2	5451.6	68339.	5010.4

Sample Name: CCV-1190978 Acquired: 12/28/2011 16:40:34 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51363**	**.50778**	**.99727**	**.50540**	**.50504**	**.48914**	**.00099**	**5.0511**	**.50505**	**.51102**	**.50793**	**.50035**	**2.5164**
Stddev	.00074	.00166	.00527	.00184	.00249	.00221	.00111	.0155	.00120	.00056	.00044	.00031	.0038
%RSD	.14374	.32769	.52846	.36369	.49303	.45225	111.74	.30602	.23794	.11024	.08570	.06244	.15093
#1	.51310	.50661	.99354	.50410	.50328	.48758	.00177	5.0401	.50420	.51062	.50762	.50013	2.5137
#2	.51415	.50896	1.0010	.50670	.50680	.49071	.00021	5.0620	.50590	.51142	.50824	.50057	2.5191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.486**	**1.0002**	**20.032**	**.49792**	**.50185**	**5.2537**	**.50891**	**.99632**	**1.0191**	**.04536**	**.99336**	**.99158**	**4.9265**
Stddev	.222	.0035	.057	.00092	.00049	.0087	.00076	.00507	.0033	.00059	.00511	.00552	.0102
%RSD	.44942	.35015	.28694	.18415	.09858	.16542	.14946	.50921	.32266	1.2928	.51448	.55710	.20694
#1	49.328	.99774	19.992	.49727	.50150	5.2475	.50837	.99273	1.0168	.04494	.98974	.98767	4.9193
#2	49.643	1.0027	20.073	.49856	.50220	5.2598	.50944	.99990	1.0215	.04577	.99697	.99549	4.9337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99973**	**.49506**	**-.00464**	**.50210**	**1.0402**	**-.00253**	**.50644**	**.50047**	**.49822**
Stddev	.00125	.00220	.00032	.00017	.0018	.00633	.00006	.00076	.00320
%RSD	.12471	.44499	6.9449	.03306	.17303	249.56	.01170	.15267	.64186
#1	1.0006	.49351	-.00487	.50198	1.0389	.00194	.50648	.49993	.49596
#2	.99885	.49662	-.00441	.50222	1.0415	-.00701	.50640	.50101	.50048
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5564.2**	**71117.**	**5032.9**
Stddev	1.8	86.	2.4
%RSD	.03227	.12036	.04852
#1	5565.5	71178.	5034.7
#2	5562.9	71057.	5031.2

Sample Name: CCB Acquired: 12/28/2011 16:42:49 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	W **-.02375**	**.00036**	W **.00253**	**.00015**	**.00018**	**-.00109**	**.00691**	**.00018**	**.00005**
Stddev	.00018	.00005	.00164	.00027	.00042	.00006	.00214	.00115	.00005	.00006
%RSD	294.49	.22216	450.54	10.701	284.50	36.250	195.43	16.659	25.678	122.14
#1	.00007	-.02379	-.00079	.00233	-.00015	.00013	-.00261	.00772	.00022	.00009
#2	-.00019	-.02371	.00152	.00272	.00044	.00022	.00042	.00609	.00015	.00001
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00156						
Low Limit		-.01800		-.00156						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00036**	**.00734**	**.07625**	W **.00437**	**.00798**	**.00004**	**.00044**	F **.15851**	**.00014**
Stddev	.00004	.00024	.00233	.02333	.00148	.00367	.00010	.00003	.00749	.00021
%RSD	14.645	66.791	31.736	30.590	33.831	46.071	258.65	7.1957	4.7265	145.44
#1	.00024	.00053	.00898	.09275	.00541	.01057	.00011	.00042	.16381	.00000
#2	.00030	.00019	.00569	.05976	.00332	.00538	-.00003	.00046	.15321	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					.00261				.10000	
Low Limit					-.00261				-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00132**	**.00106**	**.02816**	W **.00531**	**.00080**	**-.00098**	**.00059**	W **.00044**	**.00037**	**-.00018**
Stddev	.00244	.00112	.00105	.00026	.00105	.00409	.00009	.00002	.00008	.00024
%RSD	184.85	105.70	3.7350	4.9068	130.97	417.03	14.790	4.6307	22.595	136.52
#1	-.00305	.00185	.02742	.00550	.00155	-.00388	.00065	.00045	.00043	-.00001
#2	.00041	.00027	.02890	.00513	.00006	.00191	.00053	.00042	.00031	-.00035
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit				.00314				.00030		
Low Limit				-.00314				-.00030		

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.00328**	**.00034**	**.00143**	**.00030**
Stddev	.00041	.00084	.00006	.00002	.00019
%RSD	48.449	25.742	17.809	1.3606	62.639
#1	-.00112	.00268	.00030	.00141	.00043
#2	-.00055	.00387	.00038	.00144	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5524.5**	**72395.**	**4985.1**
Stddev	2.1	455.	6.4
%RSD	.03805	.62821	.12931
#1	5523.0	72074.	4989.7
#2	5526.0	72717.	4980.6

Sample Name: CCVL1192076 Acquired: 12/28/2011 16:45:20 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01062**	**.08499**	**.01686**	**.10463**	**.01010**	**.00095**	W **.12089**	**.19913**	**.00518**	**.01061**	**.01015**
Stddev	.00038	.00031	.00094	.00006	.00011	.00002	.00204	.00218	.00006	.00014	.00001
%RSD	3.5871	.36959	5.5959	.05593	1.0510	2.6192	1.6844	1.0957	1.1573	1.3188	.06172
#1	.01089	.08477	.01620	.10467	.01017	.00093	.12233	.20067	.00514	.01051	.01015
#2	.01035	.08521	.01753	.10459	.01002	.00097	.11945	.19759	.00522	.01071	.01016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							.10000				
Range							20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01550**	**.09768**	**2.9335**	F **.01547**	**.21575**	**.00999**	**.01955**	**1.1156**	**.04209**	**2.9337**	**.00904**
Stddev	.00012	.00116	.0437	.00138	.00096	.00001	.00028	.0121	.00026	.0034	.00008
%RSD	.80050	1.1876	1.4880	8.9525	.44277	.06316	1.4282	1.0877	.62441	.11567	.93580
#1	.01541	.09850	2.9644	.01645	.21642	.00998	.01975	1.1241	.04190	2.9313	.00898
#2	.01559	.09686	2.9027	.01449	.21507	.00999	.01935	1.1070	.04228	2.9361	.00910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				30.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02180**	**.01006**	**.01288**	**.46911**	**.10043**	**.01007**	**.01489**	**.00993**	**.01719**	**.06918**	**.00999**
Stddev	.00064	.00081	.00068	.01680	.00109	.00001	.00122	.00034	.00056	.00721	.00036
%RSD	2.9447	8.0355	5.2958	3.5822	1.0874	.05036	8.1833	3.4134	3.2616	10.423	3.5646
#1	.02225	.00949	.01240	.48100	.09966	.01007	.01575	.00969	.01759	.07428	.00974
#2	.02134	.01063	.01336	.45723	.10120	.01006	.01403	.01017	.01680	.06408	.01024
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02175**	**.01556**
Stddev	.00035	.00167
%RSD	1.6197	10.726
#1	.02150	.01438
#2	.02200	.01674
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5678.3**	**73596.**	**5022.0**
Stddev	10.0	.	109.4
%RSD	.17626	.00057	2.1783
#1	5685.4	73596.	5099.3
#2	5671.2	73596.	4944.6

Sample Name: 280-24081-D-1-A Acquired: 12/28/2011 16:47:49 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101192 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.06024**	**.00117**	**.01309**	**.02085**	**.00007**	**-.00486**	**5.9147**	**.00038**	**-.00002**
Stddev	.00009	.00027	.00245	.00081	.00016	.00002	.00118	.0013	.00015	.00005
%RSD	42.961	.44149	210.08	6.1555	.75399	26.726	24.174	.02212	40.843	261.44
#1	.00026	.06005	-.00057	.01366	.02074	.00006	-.00569	5.9156	.00027	.00002
#2	.00014	.06042	.00290	.01252	.02096	.00008	-.00403	5.9137	.00048	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.00044**	**.07496**	**.33831**	**.00470**	**1.5195**	**.02794**	**-.00013**	**1.2020**	**.00351**
Stddev	.00007	.00066	.00038	.02928	.00043	.0018	.00014	.00005	.0037	.00016
%RSD	8.4342	150.89	.50648	8.6557	9.1776	.12064	.48574	38.577	.31161	4.5284
#1	.00086	.00090	.07470	.31760	.00501	1.5208	.02784	-.00010	1.1994	.00340
#2	.00076	-.00003	.07523	.35902	.00440	1.5182	.02803	-.00017	1.2047	.00362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03164**	**.00012**	**3.3572**	**.00172**	**.00040**	**3.9014**	**-.00009**	**.03733**	**-.00036**	**.00173**
Stddev	.00012	.00074	.0008	.00012	.00194	.0055	.00073	.00006	.00104	.00045
%RSD	.38817	607.59	.02467	7.2180	478.45	.14072	790.66	.15095	293.14	25.871
#1	.03155	.00064	3.3566	.00181	-.00096	3.9053	-.00061	.03737	.00038	.00141
#2	.03173	-.00040	3.3578	.00163	.00177	3.8975	.00043	.03729	-.00109	.00204
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.02063**	**.00039**	**.29321**	**.00073**
Stddev	.00087	.00009	.00015	.00000	.00075
%RSD	254.60	.46011	39.455	.00064	102.81
#1	.00027	.02056	.00049	.29321	.00127
#2	-.00096	.02070	.00028	.29321	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5613.0**	**72993.**	**5112.6**
Stddev	12.2	239.	8.2
%RSD	.21706	.32678	.16024
#1	5621.6	73161.	5118.4
#2	5604.4	72824.	5106.8

Sample Name: 280-24081-D-2-A Acquired: 12/28/2011 16:50:16 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101192 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.07864**	**.00145**	**.01312**	**.01260**	**-.00004**	**-.00244**	**2.8749**	**.00012**	**-.00013**
Stddev	.00047	.00101	.00131	.00036	.00042	.00017	.00026	.0061	.00008	.00004
%RSD	87.810	1.2867	90.184	2.7312	3.3246	437.95	10.755	.21185	71.907	28.628
#1	.00087	.07792	.00053	.01286	.01289	-.00016	-.00262	2.8706	.00006	-.00010
#2	.00020	.07935	.00238	.01337	.01230	.00008	-.00225	2.8792	.00017	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00057**	**.18366**	**.60924**	**.00320**	**1.6374**	**.00912**	**.00019**	**1.2176**	**.00241**
Stddev	.00001	.00019	.00321	.02168	.00002	.0066	.00003	.00002	.0067	.00018
%RSD	1.0718	32.902	1.7480	3.5581	.68237	.40080	.36735	12.566	.55322	7.3046
#1	.00056	.00071	.18593	.59391	.00321	1.6328	.00914	.00021	1.2128	.00253
#2	.00057	.00044	.18139	.62457	.00318	1.6421	.00910	.00017	1.2223	.00228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07100**	**-.00004**	**.75962**	**.00030**	**.00112**	**3.6566**	**.00010**	**.02134**	**-.00013**	**.00161**
Stddev	.00013	.00020	.00028	.00120	.00015	.0001	.00062	.00013	.00000	.00001
%RSD	.17642	536.27	.03673	403.17	13.784	.00339	598.01	.58873	.15239	.54636
#1	.07108	-.00018	.75942	.00115	.00101	3.6565	-.00034	.02126	-.00013	.00162
#2	.07091	.00010	.75982	-.00055	.00123	3.6567	.00054	.02143	-.00013	.00160
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00131**	**.01110**	**.00009**	**.00544**	**.00162**
Stddev	.00016	.01992	.00026	.00011	.00052
%RSD	12.302	179.40	282.58	1.9416	31.867
#1	-.00143	-.00298	-.00009	.00552	.00125
#2	-.00120	.02519	.00028	.00537	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5641.3**	**73483.**	**5128.9**
Stddev	6.0	277.	10.5
%RSD	.10610	.37735	.20399
#1	5645.5	73679.	5136.3
#2	5637.0	73287.	5121.5

Sample Name: 280-24081-D-3-A Acquired: 12/28/2011 16:52:46 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101192 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.39910**	**-.00037**	**.02615**	**.03991**	**.00000**	**-.00253**	**51.153**	**.00030**	**.00016**
Stddev	.00017	.00207	.00047	.00020	.00024	.0000	.00043	.251	.00005	.00002
%RSD	335.59	.51827	128.61	.78344	.60535	1394.7	16.814	.49124	15.448	15.170
#1	.00007	.39764	-.00003	.02600	.04008	.00001	-.00223	50.975	.00034	.00018
#2	-.00017	.40057	-.00070	.02629	.03974	-.00002	-.00283	51.331	.00027	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00253**	**.00026**	**.26693**	**1.4507**	**.00450**	**10.137**	**.02189**	**.00556**	**7.2958**	**.00181**
Stddev	.00010	.00011	.00331	.0246	.00324	.028	.00003	.00001	.0153	.00002
%RSD	3.8639	42.676	1.2413	1.6991	71.917	.27442	.13978	.17133	.20901	1.0819
#1	.00260	.00018	.26459	1.4333	.00679	10.157	.02187	.00556	7.2850	.00182
#2	.00246	.00034	.26928	1.4682	.00221	10.118	.02191	.00557	7.3066	.00180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39599**	**-.00049**	**4.6021**	**.00080**	**.00181**	**4.7909**	**.00011**	**.09708**	**-.00036**	**.00635**
Stddev	.00362	.00091	.0045	.00044	.00341	.0485	.00006	.00052	.00072	.00008
%RSD	.91480	187.75	.09761	54.906	188.33	1.0115	60.571	.53849	199.97	1.2740
#1	.39855	-.00113	4.6053	.00112	.00422	4.7567	.00006	.09671	.00015	.00641
#2	.39343	.00016	4.5990	.00049	-.00060	4.8252	.00015	.09745	-.00087	.00630
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00845**	**.00211**	**.00532**	**.00080**
Stddev	.00003	.01118	.00060	.00004	.00060
%RSD	13.732	132.38	28.528	.75954	75.526
#1	-.00027	.00054	.00254	.00535	.00123
#2	-.00023	.01635	.00169	.00529	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5537.6**	**71382.**	**5107.8**
Stddev	4.1	226.	34.3
%RSD	.07391	.31719	.67160
#1	5534.7	71222.	5132.1
#2	5540.5	71543.	5083.5

Sample Name: 280-24081-D-4-A Acquired: 12/28/2011 16:55:13 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101192 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.42567**	**.00350**	**.01895**	**.07735**	**-.00003**	**-.00165**	**18.107**	**.00018**	**-.00001**
Stddev	.00012	.00409	.00048	.00000	.00013	.00000	.00248	.048	.00007	.00009
%RSD	18.311	.96165	13.703	.01641	.17124	3.3058	150.39	.26582	38.905	1525.9
#1	.00075	.42277	.00384	.01895	.07725	-.00004	.00010	18.073	.00013	-.00007
#2	.00058	.42856	.00316	.01895	.07744	-.00003	-.00340	18.141	.00023	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.00031**	**.24625**	**1.9784**	**.00582**	**5.9163**	**.00716**	**.00010**	**2.0148**	**.00086**
Stddev	.00018	.00031	.00049	.0770	.00062	.0115	.00006	.00006	.0006	.00018
%RSD	10.219	98.270	.19957	3.8937	10.571	.19456	.89103	66.970	.03153	20.782
#1	.00186	.00010	.24660	2.0329	.00538	5.9082	.00720	.00014	2.0144	.00073
#2	.00161	.00053	.24591	1.9240	.00625	5.9245	.00711	.00005	2.0153	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51135**	**.00014**	**3.0138**	**.00009**	**.00189**	**4.6954**	**-.00051**	**.05812**	**.00109**	**.00560**
Stddev	.00270	.00052	.0148	.00071	.00151	.0190	.00061	.00012	.00012	.00004
%RSD	.52833	365.29	.49241	753.34	79.860	.40354	120.67	.20196	11.086	.76650
#1	.50944	.00051	3.0034	.00059	.00296	4.6820	-.00094	.05804	.00101	.00563
#2	.51326	-.00023	3.0243	-.00041	.00082	4.7088	-.00007	.05820	.00118	.00557
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**-.00484**	**.00198**	**.00531**	**.00140**
Stddev	.00012	.01990	.00025	.00039	.00011
%RSD	13.622	411.12	12.861	7.4244	7.5806
#1	-.00078	-.01891	.00216	.00503	.00133
#2	-.00095	.00923	.00180	.00558	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5595.1**	**72442.**	**5110.1**
Stddev	7.9	62.	12.6
%RSD	.14033	.08608	.24691
#1	5600.7	72486.	5119.1
#2	5589.6	72398.	5101.2

Sample Name: 280-24081-D-5-A Acquired: 12/28/2011 16:57:40 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101192 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.43073**	**.00071**	**.01641**	**.03735**	**.00000**	**-.00155**	**9.1470**	**.00028**	**-.00001**
Stddev	.00040	.00435	.00095	.00033	.00049	.00006	.00220	.0501	.00017	.00010
%RSD	222.10	1.0105	134.05	1.9878	1.3049	5017.2	141.78	.54788	60.169	1430.7
#1	-.00010	.42766	.00138	.01618	.03769	-.00004	-.00311	9.1825	.00016	.00007
#2	.00046	.43381	.00004	.01664	.03701	.00004	.00000	9.1116	.00039	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**.00132**	**.41073**	**1.5475**	**.00492**	**2.1265**	**.00239**	**.00017**	**2.7240**	**.00053**
Stddev	.00006	.00054	.00293	.0312	.00105	.0057	.00001	.00015	.0184	.00006
%RSD	2.0331	41.005	.71308	2.0141	21.399	.26884	.21811	87.292	.67576	11.556
#1	.00293	.00170	.41280	1.5254	.00567	2.1224	.00238	.00028	2.7370	.00049
#2	.00285	.00093	.40866	1.5695	.00418	2.1305	.00239	.00007	2.7110	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.74810**	**-.00023**	**1.6213**	**.00009**	**-.00263**	**4.7520**	**.00023**	**.03024**	**.00022**	**.00784**
Stddev	.00392	.00026	.0026	.00122	.00289	.0203	.00033	.00002	.00017	.00024
%RSD	.52422	110.10	.16265	1436.8	109.93	.42658	139.73	.06849	74.482	3.1030
#1	.74533	-.00005	1.6231	-.00078	-.00467	4.7663	.00047	.03022	.00034	.00767
#2	.75087	-.00042	1.6194	.00095	-.00058	4.7376	.00000	.03025	.00011	.00802
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**-.00741**	**.00213**	**.00536**	**.00073**
Stddev	.00001	.02265	.00016	.00002	.00006
%RSD	1.3979	305.61	7.6430	.45311	7.6801
#1	-.00105	.00860	.00224	.00537	.00069
#2	-.00107	-.02343	.00201	.00534	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5639.4**	**73104.**	**5162.0**
Stddev	7.0	122.	23.9
%RSD	.12347	.16712	.46287
#1	5634.4	73190.	5145.1
#2	5644.3	73017.	5178.9

Sample Name: 23796-2 Acquired: 12/28/2011 17:00:09 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: DQR

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.02309**	**.00326**	**.60375**	**.06009**	**-.00002**	**.00149**	**119.67**	**-.00003**	**.00038**
Stddev	.00028	.00010	.00130	.00085	.00057	.00003	.00052	.77	.00012	.00002
%RSD	103.08	.44694	39.927	.14115	.94487	159.44	34.894	.64701	365.01	6.2965
#1	.00046	-.02301	.00234	.60435	.06049	-.00004	.00112	120.22	.00005	.00040
#2	.00007	-.02316	.00418	.60315	.05969	.00000	.00185	119.13	-.00012	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00159**	**3.5002**	**9.2604**	**.16880**	**56.440**	**.51668**	**-.00020**	**469.81**	**.00179**
Stddev	.00020	.00043	.0308	.0614	.00149	.165	.00238	.00033	3.24	.00021
%RSD	810.55	27.336	.87998	.66306	.88241	.29196	.46145	170.47	.68995	11.802
#1	-.00011	.00189	3.5220	9.3038	.16775	56.556	.51837	-.00043	472.10	.00164
#2	.00016	.00128	3.4785	9.2170	.16985	56.323	.51500	.00004	467.52	.00193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04151**	**-.00016**	**319.30**	**-.00193**	**.00336**	**8.7929**	**.00009**	**3.1649**	**-.00203**	**-.00001**
Stddev	.00122	.00008	.24	.00166	.00146	.0439	.00019	.0164	.00029	.00001
%RSD	2.9459	49.373	.07541	86.274	43.306	.49938	206.87	.51794	14.065	86.074
#1	.04238	-.00022	319.47	-.00075	.00439	8.8239	-.00004	3.1765	-.00224	.00000
#2	.04065	-.00011	319.13	-.00310	.00233	8.7618	.00023	3.1533	-.00183	-.00002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00125**	**.01697**	**.00077**	**.00323**	**.00204**
Stddev	.00069	.00352	.00030	.00003	.00127
%RSD	55.070	20.712	38.889	1.0771	62.289
#1	-.00173	.01946	.00098	.00321	.00114
#2	-.00076	.01449	.00056	.00326	.00294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5254.2**	**66316.**	**5052.3**
Stddev	8.3	27.	7.4
%RSD	.15887	.04048	.14587
#1	5260.1	66297.	5047.1
#2	5248.3	66335.	5057.5

Sample Name: 23796-3 Acquired: 12/28/2011 17:02:42 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: DQR

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.80354**	**.00484**	**.80760**	**.05470**	**.00008**	**.00288**	**16.582**	**-.00023**	**.00159**
Stddev	.00012	.00218	.00236	.00061	.00055	.00003	.00079	.068	.00018	.00016
%RSD	47.365	.27162	48.770	.07577	1.0025	41.858	27.415	.40797	77.107	10.028
#1	.00017	.80200	.00650	.80716	.05431	.00010	.00343	16.535	-.00035	.00170
#2	.00033	.80509	.00317	.80803	.05508	.00006	.00232	16.630	-.00010	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00132**	**.00460**	**1.8408**	**4.3926**	**.11995**	**5.0723**	**.07061**	**.00008**	W **584.49**	**.00435**
Stddev	.00004	.00062	.0152	.0099	.00236	.0097	.00001	.00015	3.08	.00011
%RSD	3.4010	13.474	.82775	.22550	1.9686	.19128	.00765	199.72	.52766	2.6351
#1	.00129	.00416	1.8300	4.3856	.11828	5.0792	.07061	-.00003	582.30	.00443
#2	.00135	.00504	1.8515	4.3996	.12162	5.0654	.07061	.00019	586.67	.00427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25312**	**.00197**	**133.44**	**-.00184**	**-.00009**	**4.8644**	**-.00040**	**.60270**	**.00009**	**.00604**
Stddev	.00270	.00044	.07	.00097	.00013	.0449	.00074	.00278	.00219	.00008
%RSD	1.0666	22.455	.04982	52.611	145.21	.92347	183.96	.46066	2323.6	1.4013
#1	.25121	.00228	133.40	-.00116	-.00018	4.8326	-.00092	.60073	.00164	.00610
#2	.25502	.00165	133.49	-.00253	.00000	4.8962	.00012	.60466	-.00145	.00598
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.02366**	**.00338**	**.01793**	**-.00021**
Stddev	.00032	.04071	.00041	.00019	.00031
%RSD	67.027	172.06	12.211	1.0366	143.21
#1	-.00070	-.00513	.00309	.01780	-.00043
#2	-.00025	.05245	.00367	.01806	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5302.7**	**66597.**	**5061.2**
Stddev	14.5	94.	53.7
%RSD	.27347	.14141	1.0618
#1	5313.0	66530.	5099.2
#2	5292.5	66663.	5023.2

Sample Name: CCVH-1190977 Acquired: 12/28/2011 17:05:51 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00300**	**50.230**	**.00022**	**.00401**	**.00028**	**.00004**	**1.0305**	**.00968**	**-.00180**	**.00233**	**-.00008**	**-.00291**	**50.052**
Stddev	.00031	.134	.00025	.00002	.00015	.00001	.0021	.00019	.00015	.00007	.00001	.00009	.038
%RSD	10.501	.26652	114.25	.39243	53.030	25.380	.20697	1.9746	8.4593	3.0572	11.442	3.2252	.07655
#1	.00278	50.325	.00004	.00400	.00038	.00003	1.0290	.00955	-.00190	.00228	-.00008	-.00298	50.025
#2	.00322	50.135	.00039	.00402	.00017	.00005	1.0320	.00982	-.00169	.00238	-.00007	-.00285	50.079
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10824**	**.00510**	**.03044**	**-.00079**	**-.00118**	**252.10**	**.00162**	**.00430**	**.00141**	**5.3611**	**-.00507**	**.00045**	**.00607**
Stddev	.05617	.00106	.00170	.00000	.00002	.30	.00023	.00040	.00013	.0202	.00138	.00101	.00762
%RSD	51.895	20.842	5.5902	.60511	1.6417	.11782	14.447	9.2633	9.3563	.37611	27.173	224.95	125.48
#1	.06852	.00435	.02924	-.00079	-.00117	252.31	.00145	.00402	.00150	5.3469	-.00409	-.00027	.01146
#2	.14795	.00585	.03164	-.00079	-.00119	251.89	.00178	.00458	.00131	5.3754	-.00604	.00116	.00068
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00119**	**.00057**	**5.0914**	**-.02402**	**.00120**	**10.385**	**.00511**	**.00208**	**-.11369**
Stddev	.00014	.00003	.0002	.00016	.00091	.008	.00013	.00062	.00125
%RSD	12.133	5.3028	.00351	.64890	75.588	.07680	2.6311	29.831	1.0994
#1	.00129	.00059	5.0912	-.02391	.00056	10.390	.00521	.00252	-.11280
#2	.00109	.00055	5.0915	-.02413	.00185	10.379	.00502	.00164	-.11457
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5360.5**	**67769.**	**4935.7**
Stddev	19.3	111.	9.7
%RSD	.35976	.16381	.19598
#1	5346.9	67691.	4928.9
#2	5374.2	67848.	4942.6

Sample Name: CCV-1190978 Acquired: 12/28/2011 17:08:17 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52209**	**.50460**	**1.0055**	**.51083**	**.50821**	**.48870**	**.00019**	**5.0622**	**.51138**	**.51322**	**.51049**	**.50353**	**2.4915**
Stddev	.00074	.00276	.0013	.00052	.00299	.00354	.00119	.0311	.00026	.00126	.00136	.00108	.0086
%RSD	.14195	.54778	.12937	.10135	.58790	.72463	614.56	.61331	.05129	.24554	.26717	.21545	.34408
#1	.52261	.50265	1.0065	.51120	.51032	.49120	-.00065	5.0841	.51120	.51411	.51145	.50430	2.4975
#2	.52157	.50655	1.0046	.51046	.50609	.48620	.00104	5.0402	.51157	.51233	.50952	.50276	2.4854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.360**	**1.0051**	**20.126**	**.49828**	**.50301**	**5.2197**	**.50953**	**1.0041**	**1.0258**	**.03507**	**1.0035**	**1.0049**	**4.8917**
Stddev	.268	.0040	.018	.00007	.00112	.0634	.00077	.0002	.0027	.00446	.0003	.0008	.0386
%RSD	.54350	.39425	.08951	.01419	.22170	1.2138	.15117	.01768	.25940	12.728	.02633	.08115	.78931
#1	49.549	1.0079	20.138	.49833	.50380	5.2645	.51007	1.0042	1.0277	.03823	1.0037	1.0055	4.9190
#2	49.170	1.0023	20.113	.49823	.50223	5.1749	.50898	1.0039	1.0239	.03192	1.0034	1.0044	4.8644
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99939**	**.49494**	**-.00587**	**.50574**	**1.0506**	**.00835**	**.51130**	**.50326**	**.50206**
Stddev	.00086	.00259	.00030	.00007	.0003	.00366	.00068	.00075	.00087
%RSD	.08575	.52406	5.0937	.01387	.03193	43.847	.13364	.14882	.17410
#1	.99999	.49677	-.00566	.50569	1.0504	.00576	.51178	.50273	.50268
#2	.99878	.49310	-.00608	.50579	1.0509	.01093	.51081	.50379	.50145
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5526.6**	**70409.**	**5037.3**
Stddev	6.4	114.	1.5
%RSD	.11530	.16227	.02890
#1	5522.1	70490.	5038.3
#2	5531.1	70329.	5036.3

Sample Name: CCB Acquired: 12/28/2011 17:10:33 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	W **-.02390**	**.00082**	W **.00257**	**.00037**	**-.00004**	**-.00367**	**.00630**	**.00013**	**-.00011**
Stddev	.00043	.00058	.00093	.00009	.00010	.00009	.00019	.00207	.00001	.00013
%RSD	82.280	2.4314	113.65	3.4693	26.337	232.35	5.2734	32.949	7.6362	115.34
#1	.00083	-.02349	.00016	.00263	.00044	.00002	-.00381	.00483	.00012	-.00021
#2	.00022	-.02431	.00148	.00250	.00030	-.00010	-.00354	.00776	.00013	-.00002
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00156						
Low Limit		-.01800		-.00156						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00005**	**.00207**	**.03654**	W **.00302**	**.00055**	**-.00003**	**.00042**	F **.19123**	**.00003**
Stddev	.00026	.00001	.00174	.03305	.00090	.00020	.00004	.00015	.00674	.00003
%RSD	170.84	28.100	83.794	90.457	29.772	36.097	113.26	34.551	3.5238	106.08
#1	-.00003	-.00005	.00330	.05991	.00238	.00041	-.00001	.00032	.18647	.00004
#2	.00033	-.00004	.00084	.01317	.00365	.00069	-.00006	.00052	.19600	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					.00261				.10000	
Low Limit					-.00261				-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00103**	**-.00096**	**.02533**	F **.00722**	**.00233**	**-.01163**	**.00018**	**.00020**	**.00103**	**-.00020**
Stddev	.00021	.00025	.00081	.00166	.00493	.01147	.00073	.00011	.00126	.00013
%RSD	20.328	26.231	3.1886	22.946	211.82	98.631	397.21	52.682	122.14	66.417
#1	-.00118	-.00078	.02590	.00605	.00582	-.01974	-.00033	.00028	.00192	-.00011
#2	-.00089	-.00114	.02476	.00839	-.00116	-.00352	.00070	.00013	.00014	-.00029
Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00628						
Low Limit				-.00628						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00141**	**.01049**	**.00013**	**.00148**	**.00120**
Stddev	.00072	.00075	.00056	.00026	.00127
%RSD	50.993	7.1871	447.85	17.489	105.52
#1	-.00192	.00996	-.00027	.00130	.00210
#2	-.00090	.01102	.00052	.00167	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5459.8**	**70757.**	**4965.7**
Stddev	8.5	280.	31.4
%RSD	.15484	.39632	.63262
#1	5453.8	70559.	4987.9
#2	5465.7	70955.	4943.5

Sample Name: CCVL1192076 Acquired: 12/28/2011 17:13:05 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01035**	**.08524**	W **.01840**	**.10434**	**.00995**	**.00089**	W **.12255**	**.20004**	**.00507**	**.01080**	**.01025**
Stddev	.00004	.00112	.00020	.00043	.00016	.00008	.00162	.00041	.00006	.00007	.00001
%RSD	.37762	1.3157	1.1111	.40945	1.5835	8.6410	1.3208	.20621	1.2174	.61601	.12469
#1	.01032	.08445	.01854	.10403	.01007	.00095	.12140	.19974	.00503	.01085	.01026
#2	.01038	.08604	.01825	.10464	.00984	.00084	.12369	.20033	.00512	.01075	.01024
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.01500				.10000				
Range			20.000%				20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01530**	**.09945**	**2.9522**	F **.01372**	**.21197**	**.00999**	**.01967**	**1.1321**	**.04220**	**2.9479**	**.00840**
Stddev	.00000	.00004	.0180	.00371	.00029	.00003	.00023	.0060	.00014	.0042	.00026
%RSD	.00360	.03593	.60920	27.071	.13772	.27233	1.1806	.53073	.33479	.14270	3.1156
#1	.01529	.09943	2.9395	.01635	.21176	.00997	.01984	1.1364	.04210	2.9449	.00859
#2	.01530	.09948	2.9649	.01109	.21218	.01001	.01951	1.1279	.04230	2.9509	.00822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				30.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01672**	**.01072**	W **.01191**	**.47265**	**.10060**	**.00998**	**.01461**	**.00969**	**.01653**	**.05520**	**.01013**
Stddev	.00191	.00106	.00361	.01430	.00004	.00003	.00073	.00026	.00056	.02278	.00006
%RSD	11.433	9.9184	30.316	3.0246	.03978	.33076	4.9850	2.6882	3.4047	41.263	.63538
#1	.01807	.01147	.01446	.46255	.10062	.00996	.01410	.00950	.01613	.07131	.01018
#2	.01536	.00996	.00935	.48276	.10057	.01001	.01513	.00987	.01693	.03909	.01009
Check ?	None	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.01500								
Range			-20.000%								

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02192**	**.01742**
Stddev	.00014	.00047
%RSD	.61623	2.7177
#1	.02183	.01709
#2	.02202	.01776
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5638.1**	**72775.**	**5085.6**
Stddev	19.6	27.	35.2
%RSD	.34784	.03685	.69130
#1	5624.2	72756.	5110.4
#2	5652.0	72794.	5060.7

Sample Name: MB 280-100140/1-A Acquired: 12/28/2011 17:15:34 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 100140 6010c

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.04876**	**.00085**	F **.02095**	**.00024**	**-.00006**	**-.00276**	**.07334**	**.00016**	**.00002**
Stddev	.00012	.00027	.00130	.00073	.00015	.00006	.00088	.00124	.00003	.00016
%RSD	52.578	.56008	153.87	3.5072	63.020	110.96	31.735	1.6858	18.288	824.52
#1	.00031	.04857	-.00007	.02147	.00013	-.00001	-.00214	.07421	.00014	.00014
#2	.00014	.04895	.00177	.02043	.00034	-.00010	-.00338	.07246	.00018	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.01000						
Low Limit				-.01000						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00015**	W **.06867**	**.06748**	**.00294**	**.02458**	**.00010**	**-.00012**	W **.51409**	**-.00014**
Stddev	.00002	.00030	.00013	.04890	.00267	.00004	.00002	.00004	.00453	.00029
%RSD	101.49	207.08	.19227	72.475	90.653	.17868	23.827	33.731	.88047	204.62
#1	-.00001	-.00007	.06876	.03290	.00483	.02455	.00008	-.00014	.51729	-.00035
#2	-.00003	.00036	.06857	.10206	.00106	.02461	.00012	-.00009	.51089	.00006
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit			.03000						.50000	
Low Limit			-.05000						-.50000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00225**	**.00068**	**.02671**	**.00111**	**.00073**	F **.10026**	**.00543**	**.00036**	W **.00586**	**.00004**
Stddev	.00091	.00117	.00115	.00162	.00241	.00111	.00050	.00010	.00057	.00023
%RSD	40.525	172.61	4.3026	145.82	332.72	1.1038	9.2588	27.142	9.7741	613.65
#1	.00160	.00151	.02590	.00226	-.00098	.09948	.00508	.00029	.00546	.00020
#2	.00289	-.00015	.02753	-.00003	.00243	.10105	.00579	.00043	.00627	-.00012
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						.10000			.00500	
Low Limit						-.10000			-.00500	

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00155**	**.01927**	**-.00026**	**.00385**	**-.00019**
Stddev	.00084	.02030	.00003	.00077	.00090
%RSD	54.137	105.35	13.089	19.928	460.94
#1	-.00095	.03363	-.00024	.00331	-.00083
#2	-.00214	.00492	-.00028	.00439	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5540.5**	**72323.**	**5052.3**
Stddev	11.7	274.	10.9
%RSD	.21172	.37889	.21644
#1	5548.8	72129.	5044.5
#2	5532.2	72517.	5060.0

Sample Name: LCS 280-100140/2-A Acquired: 12/28/2011 17:18:06 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 100140 6010c

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05325**	**1.9397**	**.97223**	**1.0282**	**1.9944**	**.04805**	**2.1074**	**48.782**	**.09402**	**.49111**
Stddev	.00004	.0013	.00137	.0012	.0054	.00009	.0029	.095	.00023	.00091
%RSD	.08125	.06568	.14122	.11493	.27191	.19712	.13761	.19412	.24081	.18563
#1	.05328	1.9406	.97320	1.0290	1.9982	.04812	2.1095	48.849	.09418	.49175
#2	.05322	1.9388	.97125	1.0274	1.9905	.04799	2.1054	48.715	.09386	.49046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20048**	**.24628**	**.98734**	**49.140**	**.99937**	**47.267**	**.49097**	**1.0007**	**50.570**	**.49084**
Stddev	.00021	.00124	.00634	.056	.00094	.110	.00111	.0009	.239	.00028
%RSD	.10531	.50364	.64203	.11412	.09404	.23271	.22546	.09195	.47199	.05733
#1	.20063	.24715	.99183	49.179	1.0000	47.345	.49175	1.0013	50.739	.49104
#2	.20033	.24540	.98286	49.100	.99871	47.189	.49018	1.0000	50.401	.49064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.8592**	**.49192**	**.02883**	**.48568**	**1.8706**	**4.3826**	**1.9256**	**.98355**	**.98766**	**1.0095**
Stddev	.0071	.00128	.00468	.00142	.0012	.0168	.0046	.00135	.00095	.0008
%RSD	.07159	.25993	16.230	.29142	.06177	.38412	.24116	.13692	.09606	.07598
#1	9.8642	.49102	.02552	.48668	1.8714	4.3707	1.9289	.98450	.98833	1.0100
#2	9.8542	.49282	.03214	.48468	1.8697	4.3945	1.9223	.98260	.98699	1.0090
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9490**	**2.1200**	**.51205**	**.47805**	**.47985**
Stddev	.0003	.0120	.00135	.00047	.00158
%RSD	.01525	.56752	.26421	.09927	.32940
#1	1.9488	2.1285	.51301	.47839	.48097
#2	1.9492	2.1115	.51109	.47771	.47874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5288.4**	**67853.**	**4942.1**
Stddev	8.9	149.	5.2
%RSD	.16846	.21995	.10523
#1	5282.1	67747.	4938.4
#2	5294.7	67958.	4945.8

Sample Name: 280-23666-A-11-B Acquired: 12/28/2011 17:20:20 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 100140 6010c

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**200.73**	**.08724**	**.24486**	**1.8140**	**.00855**	**-.00587**	W **736.34**	**.00891**	**.07151**
Stddev	.00017	.23	.00195	.00084	.0010	.00014	.00038	2.72	.00002	.00003
%RSD	17.241	.11439	2.2299	.34397	.05530	1.6444	6.3978	.36991	.22880	.03640
#1	-.00109	200.57	.08861	.24426	1.8133	.00865	-.00561	734.42	.00890	.07149
#2	-.00085	200.89	.08586	.24545	1.8147	.00845	-.00614	738.27	.00893	.07153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								500.00		
Low Limit								-.05000		

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23367**	**.23624**	**180.24**	**46.857**	**.21084**	**60.217**	**4.5506**	**.00810**	**1.6351**	**.19309**
Stddev	.00014	.00078	.16	.039	.00219	.085	.0121	.00054	.0031	.00018
%RSD	.05899	.32883	.08858	.08285	1.0398	.14035	.26515	6.6713	.19006	.09316
#1	.23358	.23569	180.12	46.829	.20929	60.276	4.5591	.00772	1.6373	.19321
#2	.23377	.23679	180.35	46.884	.21239	60.157	4.5421	.00848	1.6329	.19296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.279**	**.97139**	**9.7189**	**-.00047**	**.01602**	**2.5821**	**.01211**	**.73299**	**.01848**	**1.6483**
Stddev	.012	.00059	.0018	.00281	.00030	.0215	.00017	.00061	.00097	.0028
%RSD	.10841	.06082	.01853	598.80	1.8502	.83139	1.4314	.08369	5.2650	.17095
#1	11.270	.97181	9.7176	-.00246	.01581	2.5973	.01199	.73256	.01780	1.6503
#2	11.287	.97098	9.7202	.00152	.01623	2.5670	.01223	.73343	.01917	1.6463
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00471**	**.02345**	**.35715**	**.91082**	**.04350**
Stddev	.00074	.00455	.00088	.00610	.00181
%RSD	15.683	19.392	.24704	.67003	4.1528
#1	-.00523	.02667	.35777	.91513	.04478
#2	-.00419	.02024	.35652	.90650	.04223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5891.5**	**74081.**	**5804.1**
Stddev	8.2	397.	11.0
%RSD	.13886	.53645	.19031
#1	5885.8	73800.	5812.0
#2	5897.3	74362.	5796.3

Sample Name: SD 23666-A-11-B@5 Acquired: 12/28/2011 17:23:26 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 100140 6010c

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00017**	**43.681**	k **.01952**	**.05828**	**.39944**	k **.00179**	k **-.00407**	**170.72**	k **.00218**	k **.01755**
Stddev	.00012	.396	.00203	.00007	.00248	.00004	.00099	1.43	.00004	.00024
%RSD	71.544	.90749	10.409	.11168	.62025	2.1388	24.222	.83960	1.7975	1.3546
#1	k -.00026	43.400	k .01808	.05823	.39769	k .00177	k -.00476	169.70	k .00215	k .01738
#2	k -.00009	43.961	k .02095	.05833	.40120	k .00182	k -.00337	171.73	k .00220	k .01771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05287**	k **.05289**	k **40.985**	**9.8718**	**.04738**	**14.280**	**1.0561**	**.00164**	**.41819**	**.04518**
Stddev	.00007	.00018	.399	.1053	.00050	.085	.0045	.00010	.00707	.00008
%RSD	.12770	.34500	.97257	1.0671	1.0486	.59731	.42508	6.0836	1.6913	.18396
#1	.05292	k .05276	k 40.703	9.7973	.04773	14.219	1.0529	.00157	.41319	.04524
#2	.05282	k .05302	k 41.267	9.9462	.04703	14.340	1.0593	.00171	.42319	.04512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.5167**	k **.23507**	**2.1154**	k **.00128**	k **-.00071**	**.55812**	k **.00228**	**.16259**	k **.03931**	k **.36546**
Stddev	.0019	.00115	.0083	.00094	.00254	.00103	.00014	.00112	.00145	.00121
%RSD	.07398	.48886	.39361	73.315	359.17	.18439	6.2292	.68851	3.6855	.32992
#1	2.5180	k .23426	2.1213	k .00195	k -.00250	.55739	k .00238	.16180	k .04033	k .36460
#2	2.5154	k .23589	2.1096	k .00062	k .00109	.55885	k .00218	.16338	k .03829	k .36631
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00111**	k **.00341**	k **.08044**	**.21305**	k **.00811**
Stddev	.00039	.00450	.00048	.00131	.00034
%RSD	35.433	131.87	.59148	.61598	4.2108
#1	k -.00139	k .00023	k .08010	.21213	k .00787
#2	k -.00083	k .00659	k .08078	.21398	k .00835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5651.0**	**71523.**	**5267.6**
Stddev	9.3	342.	46.6
%RSD	.16521	.47758	.88475
#1	5657.6	71764.	5300.5
#2	5644.4	71281.	5234.6

Sample Name: 280-23666-A-11-B PDS Acquired: 12/28/2011 17:25:49 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 100140 6010c

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04485**	**198.61**	**.25333**	**.31920**	**1.8684**	**.04994**	**-.00613**	W **730.23**	**.05122**	**.10955**
Stddev	.00002	.76	.00322	.00071	.0069	.00023	.00018	2.86	.00044	.00034
%RSD	.04317	.38314	1.2701	.22191	.37177	.45759	2.9413	.39178	.85942	.30886
#1	.04487	199.15	.25561	.31870	1.8733	.05010	-.00626	728.21	.05091	.10931
#2	.04484	198.08	.25106	.31970	1.8635	.04978	-.00601	732.26	.05153	.10979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								500.00		
Low Limit								-.05000		

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26916**	**.27795**	**177.47**	**63.665**	**.29731**	**74.712**	**4.4834**	**.04821**	**19.802**	**.22758**
Stddev	.00022	.00193	.99	.291	.00160	.433	.0225	.00017	.731	.00060
%RSD	.08268	.69606	.55702	.45729	.53849	.57954	.50256	.34986	3.6906	.26302
#1	.26900	.27658	178.17	63.871	.29618	74.406	4.4675	.04809	20.318	.22715
#2	.26932	.27932	176.77	63.459	.29844	75.019	4.4993	.04833	19.285	.22800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.738**	**1.0217**	**9.5329**	**.08202**	**.17821**	**6.7614**	**.08744**	**.76325**	**.19210**	**1.6603**
Stddev	.039	.0026	.0323	.00244	.00025	.0024	.00012	.00418	.00339	.0100
%RSD	.30582	.25626	.33859	2.9730	.13949	.03615	.13866	.54793	1.7672	.60452
#1	12.710	1.0199	9.5100	.08029	.17839	6.7632	.08735	.76621	.18970	1.6532
#2	12.765	1.0236	9.5557	.08374	.17804	6.7597	.08752	.76030	.19450	1.6674
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14177**	**.49688**	**.39335**	**1.0458**	**.07938**
Stddev	.00011	.00254	.00101	.0036	.00121
%RSD	.07769	.51035	.25691	.34170	1.5305
#1	.14169	.49509	.39263	1.0432	.08024
#2	.14185	.49868	.39406	1.0483	.07852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5877.6**	**73753.**	**5812.5**
Stddev	13.5	101.	20.8
%RSD	.23039	.13676	.35724
#1	5887.2	73824.	5797.8
#2	5868.1	73682.	5827.2

Sample Name: 280-23666-A-12-B Acquired: 12/28/2011 17:28:54 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 100140 6010c

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**189.51**	**.08202**	**.23429**	**1.7804**	**.00815**	**-.00473**	W **753.15**	**.00867**	**.06856**
Stddev	.00002	.55	.00108	.00064	.0032	.00006	.00115	5.65	.00000	.00026
%RSD	5.3359	.29058	1.3123	.27345	.18239	.70787	24.191	.75012	.01778	.37445
#1	-.00044	189.90	.08126	.23475	1.7826	.00819	-.00554	757.15	.00867	.06874
#2	-.00047	189.12	.08278	.23384	1.7781	.00811	-.00392	749.16	.00867	.06838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								500.00		
Low Limit								-.05000		

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21959**	**.22970**	**172.95**	**45.029**	**.19992**	**58.203**	**4.4077**	**.00739**	**1.5284**	**.18482**
Stddev	.00106	.00054	.35	.073	.00253	.348	.0261	.00000	.0014	.00027
%RSD	.48089	.23390	.20489	.16272	1.2678	.59875	.59124	.05730	.09172	.14550
#1	.22034	.23008	173.20	45.081	.19813	58.450	4.4261	.00739	1.5293	.18501
#2	.21884	.22932	172.70	44.978	.20171	57.957	4.3893	.00739	1.5274	.18463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.451**	**.98139**	**9.4607**	**-.00169**	**.01633**	**2.5120**	**.01122**	**.76467**	**.01520**	**1.4636**
Stddev	.022	.00013	.0058	.00013	.00132	.0191	.00005	.00233	.00085	.0155
%RSD	.18981	.01283	.06083	7.9151	8.0710	.75948	.43194	.30500	5.6204	1.0597
#1	11.466	.98148	9.4648	-.00178	.01540	2.5255	.01118	.76632	.01460	1.4746
#2	11.436	.98130	9.4566	-.00159	.01726	2.4985	.01125	.76302	.01581	1.4527
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00297**	**.04486**	**.33511**	**.86695**	**.04094**
Stddev	.00004	.01562	.00072	.00670	.00033
%RSD	1.4656	34.825	.21376	.77253	.81244
#1	-.00300	.05591	.33562	.87169	.04118
#2	-.00294	.03382	.33460	.86222	.04071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5876.5**	**74430.**	**5802.7**
Stddev	8.2	351.	30.2
%RSD	.13926	.47193	.52103
#1	5870.7	74182.	5781.4
#2	5882.2	74678.	5824.1

Sample Name: 280-23666-A-13-B Acquired: 12/28/2011 17:32:01 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 100140 6010c

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**184.95**	**.08652**	**.21176**	**1.7300**	**.00820**	**-.00327**	W **712.05**	**.00865**	**.06960**
Stddev	.00011	.14	.00071	.00012	.0018	.00004	.00025	3.17	.00011	.00015
%RSD	25.656	.07620	.82242	.05782	.10468	.50198	7.4976	.44584	1.2824	.21827
#1	-.00052	185.05	.08702	.21167	1.7312	.00823	-.00310	709.81	.00873	.06970
#2	-.00036	184.85	.08602	.21185	1.7287	.00817	-.00345	714.30	.00857	.06949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								500.00		
Low Limit								-.05000		

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21800**	**.22270**	**173.50**	**43.674**	**.19761**	**56.954**	**4.4660**	**.00708**	**1.4493**	**.18583**
Stddev	.00013	.00053	.40	.053	.00028	.021	.0282	.00023	.0097	.00024
%RSD	.05738	.23685	.23312	.12246	.14299	.03602	.63070	3.3080	.66779	.12917
#1	.21809	.22308	173.79	43.712	.19741	56.968	4.4461	.00725	1.4562	.18600
#2	.21791	.22233	173.22	43.636	.19781	56.939	4.4860	.00692	1.4425	.18566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.216**	**1.0823**	**9.4871**	**-.00136**	**.01543**	**3.1812**	**.01327**	**.69829**	**.01949**	**1.4850**
Stddev	.009	.0035	.0198	.00018	.00653	.0340	.00018	.00188	.00056	.0030
%RSD	.07951	.31925	.20902	13.201	42.337	1.0676	1.3753	.26874	2.8750	.20155
#1	11.223	1.0848	9.5011	-.00149	.01081	3.2053	.01340	.69962	.01989	1.4871
#2	11.210	1.0799	9.4730	-.00123	.02005	3.1572	.01314	.69697	.01909	1.4828
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00463**	**.04520**	**.32809**	**.88119**	**.05352**
Stddev	.00108	.01063	.00121	.00039	.00066
%RSD	23.386	23.515	.36996	.04377	1.2398
#1	-.00386	.03768	.32895	.88146	.05399
#2	-.00539	.05271	.32723	.88091	.05305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5906.6**	**74695.**	**5818.2**
Stddev	6.8	25.	8.1
%RSD	.11449	.03289	.13958
#1	5911.4	74677.	5812.4
#2	5901.8	74712.	5823.9

Sample Name: CCVH-1190977 Acquired: 12/28/2011 17:35:09 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00331**	**49.145**	**-.00016**	**.00359**	**.00081**	**.00001**	**1.0113**	**.01866**	**-.00158**	**.00229**	**-.00007**	**-.00312**	**48.728**
Stddev	.00021	.006	.00026	.00011	.00002	.00000	.0026	.00171	.00002	.00000	.00007	.00043	.211
%RSD	6.3694	.01284	167.65	3.1763	2.7879	43.958	.25701	9.1611	1.4493	.17035	97.651	13.764	.43403
#1	.00346	49.149	-.00035	.00367	.00082	.00000	1.0131	.01987	-.00160	.00230	-.00012	-.00342	48.878
#2	.00317	49.140	.00003	.00351	.00079	.00001	1.0094	.01745	-.00156	.00229	-.00002	-.00282	48.579
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07741**	**.00279**	**.02712**	**-.00075**	**-.00119**	**247.70**	**.00179**	**.00354**	**.00035**	**5.2291**	**-.00431**	**-.00087**	**-.00530**
Stddev	.01829	.00140	.00081	.00000	.00027	.98	.00032	.00093	.00015	.0102	.00133	.00039	.00544
%RSD	23.630	50.224	2.9954	.46924	22.330	.39383	18.038	26.315	43.112	.19480	30.812	45.018	102.60
#1	.06448	.00180	.02769	-.00075	-.00138	248.39	.00157	.00420	.00046	5.2363	-.00337	-.00115	-.00915
#2	.09035	.00378	.02655	-.00075	-.00101	247.01	.00202	.00288	.00024	5.2219	-.00525	-.00059	-.00146
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.00029**	**5.0082**	**-.02350**	**.00201**	**10.247**	**.00503**	**.00228**	**-.11115**
Stddev	.00012	.00006	.0027	.00039	.00107	.031	.00038	.00053	.00085
%RSD	9.5212	19.610	.05352	1.6498	53.356	.30324	7.5236	23.293	.76069
#1	.00113	.00034	5.0063	-.02377	.00277	10.225	.00477	.00265	-.11055
#2	.00129	.00025	5.0101	-.02322	.00125	10.269	.00530	.00190	-.11175
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5460.9**	**69493.**	**5072.2**
Stddev	1.8	26.	32.7
%RSD	.03325	.03750	.64389
#1	5462.1	69511.	5095.3
#2	5459.6	69474.	5049.1

Sample Name: CCV-1190978 Acquired: 12/28/2011 17:37:34 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51382**	**.50169**	**.99679**	**.50704**	**.50261**	**.48289**	**.00168**	**5.0005**	**.50778**	**.51156**	**.50876**	**.49624**	**2.4577**
Stddev	.00201	.00229	.00280	.00092	.00004	.00068	.00448	.0085	.00045	.00066	.00028	.00199	.0037
%RSD	.39141	.45681	.28054	.18147	.00869	.14112	266.61	.16972	.08829	.12921	.05555	.40196	.15126
#1	.51524	.50007	.99481	.50769	.50264	.48337	.00485	5.0066	.50810	.51203	.50896	.49765	2.4603
#2	.51239	.50331	.99876	.50639	.50258	.48240	-.00149	4.9945	.50746	.51110	.50856	.49483	2.4551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**48.975**	**.99791**	**19.776**	**.49236**	**.50142**	**5.0504**	**.50676**	**.99529**	**1.0158**	**.00528**	**.99681**	**.99532**	**4.8508**
Stddev	.104	.00109	.072	.00116	.00075	.0117	.00011	.00119	.0023	.00139	.00069	.00611	.0287
%RSD	.21151	.10950	.36544	.23593	.15054	.23136	.02196	.11957	.22452	26.289	.06955	.61431	.59102
#1	49.048	.99868	19.827	.49318	.50196	5.0587	.50684	.99613	1.0174	.00626	.99632	.99100	4.8711
#2	48.901	.99713	19.725	.49154	.50089	5.0421	.50668	.99444	1.0142	.00430	.99730	.99964	4.8306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99270**	**.48983**	**-.00484**	**.50113**	**1.0417**	**-.00227**	**.50591**	**.49528**	**.48977**
Stddev	.00201	.00141	.00063	.00174	.0036	.01681	.00213	.00135	.00176
%RSD	.20200	.28798	13.075	.34741	.34401	741.77	.42045	.27182	.35929
#1	.99129	.49083	-.00439	.50236	1.0442	-.01415	.50741	.49623	.48853
#2	.99412	.48883	-.00528	.49990	1.0391	.00962	.50440	.49433	.49102
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5560.2**	**71596.**	**5093.8**
Stddev	5.4	129.	1.6
%RSD	.09773	.18074	.03131
#1	5556.3	71505.	5094.9
#2	5564.0	71688.	5092.6

Sample Name: CCB Acquired: 12/28/2011 17:39:52 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	W **-.02399**	**-.00114**	W **.00164**	**-.00004**	**.00001**	**-.00177**	**-.00456**	**.00013**	**-.00006**
Stddev	.00071	.00014	.00066	.00019	.00004	.00007	.00118	.00008	.00017	.00012
%RSD	152.02	.58037	57.949	11.625	89.418	1046.4	66.401	1.6582	131.61	190.05
#1	-.00003	-.02389	-.00161	.00177	-.00007	-.00004	-.00094	-.00461	.00001	-.00015
#2	.00096	-.02409	-.00068	.00151	-.00002	.00006	-.00261	-.00451	.00025	.00002
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00156						
Low Limit		-.01800		-.00156						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00008**	**-.00005**	**.05019**	W **.00421**	**.00127**	**-.00015**	**.00042**	F **.10143**	**.00007**
Stddev	.00009	.00015	.00023	.03730	.00198	.00022	.00001	.00009	.00101	.00023
%RSD	50.310	200.45	506.27	74.325	47.086	17.485	7.0223	22.298	.99475	337.63
#1	.00012	-.00019	-.00021	.02381	.00562	.00112	-.00014	.00036	.10071	-.00009
#2	.00025	.00003	.00012	.07656	.00281	.00143	-.00015	.00049	.10214	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					.00261				.10000	
Low Limit					-.00261				-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00190**	**-.00061**	**.00470**	W **.00518**	**-.00026**	**-.00703**	**.00031**	**.00011**	**.00012**	**.00021**
Stddev	.00200	.00012	.00022	.00037	.00060	.01768	.00055	.00002	.00068	.00033
%RSD	105.53	19.717	4.6640	7.1018	229.66	251.42	178.85	15.532	567.57	155.24
#1	-.00048	-.00070	.00454	.00544	.00016	.00547	-.00008	.00012	.00060	-.00002
#2	-.00331	-.00053	.00485	.00492	-.00068	-.01953	.00070	.00009	-.00036	.00045
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00314						
Low Limit				-.00314						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.03377**	**-.00002**	**.00142**	**.00187**
Stddev	.00036	.01332	.00003	.00057	.00082
%RSD	64.575	39.453	137.86	40.434	43.692
#1	-.00030	.02435	.00000	.00183	.00129
#2	-.00081	.04320	-.00004	.00102	.00244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5570.4**	**72473.**	**5056.7**
Stddev	3.7	249.	13.6
%RSD	.06599	.34389	.26842
#1	5567.8	72297.	5066.3
#2	5573.0	72650.	5047.1

Sample Name: CCVL1192076 Acquired: 12/28/2011 17:42:24 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01123**	**.08510**	**.01589**	**.10211**	**.01003**	**.00088**	**.11842**	**.20168**	**.00517**	**.01067**	**.01006**	**.01525**	**.09749**	**2.9349**
Stddev	.00041	.00094	.00043	.00091	.00027	.00005	.00059	.00501	.00008	.00004	.00012	.00018	.00094	.0193
%RSD	3.6225	1.1083	2.6948	.88947	2.6680	5.6399	.49774	2.4825	1.4787	.39973	1.1739	1.1823	.95994	.65901
#1	.01094	.08443	.01619	.10147	.01022	.00092	.11883	.19814	.00523	.01070	.01014	.01537	.09815	2.9212
#2	.01152	.08576	.01559	.10275	.00984	.00085	.11800	.20523	.00512	.01064	.00998	.01512	.09683	2.9485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01060**	**.20753**	**.00989**	**.01951**	**1.0647**	**.04198**	**2.9081**	**.00890**	**.00355**	**.00913**	**.01409**	**.47933**	**.09927**	**.01002**
Stddev	.00003	.00197	.00000	.00030	.0017	.00005	.0109	.00143	.00239	.00122	.00274	.00406	.00045	.00002
%RSD	.31073	.95109	.04246	1.5622	.15729	.12509	.37626	16.081	67.338	13.404	19.479	.84789	.45418	.15172
#1	.01062	.20613	.00989	.01929	1.0659	.04202	2.9004	.00789	.00186	.00826	.01215	.48221	.09896	.01001
#2	.01058	.20892	.00989	.01972	1.0635	.04195	2.9159	.00991	.00524	.00999	.01603	.47646	.09959	.01003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01468**	**.00975**	**.01688**	**.07178**	**.00980**	**.02186**	**.01589**
Stddev	.00038	.00011	.00054	.00207	.00085	.00023	.00170
%RSD	2.5592	1.1446	3.1767	2.8865	8.6527	1.0698	10.720
#1	.01495	.00967	.01726	.07031	.00921	.02202	.01469
#2	.01441	.00983	.01651	.07324	.01040	.02169	.01709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5708.5**	**74271.**	**5180.6**
Stddev	16.0	329.	31.0
%RSD	.27973	.44286	.59888
#1	5719.8	74504.	5202.5
#2	5697.2	74039.	5158.6

Sample Name: lb2 280-101213/1-b Acquired: 12/28/2011 17:44:53 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 101339 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**-.01850**	**.00158**	W **.00525**	**.00089**	**-.00004**	**-.00069**	**.03173**	**.00004**	**-.00006**
Stddev	.00010	.00017	.00052	.00038	.00004	.00002	.00006	.00520	.00006	.00007
%RSD	10.727	.90179	32.698	7.2780	4.3141	63.258	8.6779	16.380	147.54	124.82
#1	.00085	-.01862	.00121	.00498	.00092	-.00005	-.00065	.02805	.00009	-.00011
#2	.00099	-.01839	.00194	.00552	.00086	-.00002	-.00073	.03540	.00000	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00500						
Low Limit				-.00500						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00126**	**.00474**	**.02591**	**.00188**	**.00820**	**.00024**	**.00003**	**.16752**	**-.00012**
Stddev	.00020	.00019	.00225	.00720	.00040	.00210	.00008	.00009	.01049	.00029
%RSD	140.92	15.145	47.548	27.791	21.307	25.575	33.505	287.46	6.2590	249.65
#1	.00000	.00113	.00315	.03100	.00159	.00969	.00030	-.00003	.16011	.00009
#2	-.00028	.00140	.00633	.02082	.00216	.00672	.00018	.00009	.17494	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.00038**	**.00817**	**.00014**	**.00032**	**.01785**	**.00098**	**.00035**	**.00235**	**.00002**
Stddev	.00015	.00078	.00056	.00020	.00058	.01667	.00074	.00004	.00029	.00005
%RSD	19.185	204.01	6.7990	144.19	180.98	93.414	75.774	10.287	12.492	257.67
#1	-.00068	-.00017	.00778	.00000	-.00009	.00606	.00045	.00037	.00215	.00006
#2	-.00090	.00094	.00857	.00028	.00073	.02964	.00150	.00032	.00256	-.00002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00234**	**-.01397**	**-.00041**	**.00467**	**-.00129**
Stddev	.00089	.00118	.00029	.00052	.00027
%RSD	37.894	8.4618	71.011	11.159	21.273
#1	-.00171	-.01314	-.00062	.00503	-.00109
#2	-.00297	-.01481	-.00021	.00430	-.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5625.5**	**73533.**	**5135.9**
Stddev	5.9	6.	9.9
%RSD	.10510	.00794	.19287
#1	5629.7	73537.	5143.0
#2	5621.3	73529.	5128.9

Sample Name: lcs 280-101213/2-b Acquired: 12/28/2011 17:47:25 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 101339 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19105**	**.35872**	**.73487**	**.18008**	**2.2669**	**.00855**	**.40007**	**8.9723**	**.20795**	**.09264**
Stddev	.00054	.00210	.00117	.00034	.0040	.00004	.00046	.0165	.00011	.00005
%RSD	.28145	.58604	.15973	.18603	.17599	.48863	.11419	.18448	.05308	.04963
#1	.19143	.35723	.73570	.17985	2.2698	.00858	.40039	8.9840	.20803	.09261
#2	.19067	.36020	.73404	.18032	2.2641	.00852	.39974	8.9606	.20787	.09267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99939**	**.42295**	**.18351**	**8.7925**	**.18179**	**8.7228**	**.08978**	**.18380**	**8.9214**	**9.5944**
Stddev	.00008	.00116	.00315	.0000	.00179	.0240	.00018	.00035	.0041	.0978
%RSD	.00754	.27332	1.7181	.00026	.98741	.27513	.20581	.18916	.04590	1.0189
#1	.99944	.42377	.18574	8.7925	.18306	8.7398	.08991	.18355	8.9243	9.5253
#2	.99933	.42214	.18128	8.7926	.18052	8.7059	.08965	.18404	8.9185	9.6636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09233**	**1.7656**	**1.0613**	**.00873**	**.08004**	**.52406**	F **1.7763**	**.36093**	**.17954**	**.17780**
Stddev	.00038	.0033	.0031	.00098	.00075	.00024	.0106	.00001	.00036	.00087
%RSD	.40629	.18931	.28842	11.210	.93413	.04638	.59838	.00251	.19817	.48944
#1	.09260	1.7633	1.0634	.00804	.08057	.52424	1.7838	.36093	.17979	.17718
#2	.09207	1.7680	1.0591	.00942	.07952	.52389	1.7688	.36094	.17928	.17842
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							.48000			
Low Limit							.32000			

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18409**	**.37781**	**.39714**	**.08823**	**.45180**	**.08864**
Stddev	.00052	.00172	.00754	.00077	.00166	.00340
%RSD	.28331	.45474	1.8985	.87285	.36727	3.8401
#1	.18446	.37659	.40247	.08878	.45297	.09104
#2	.18372	.37902	.39181	.08769	.45062	.08623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5571.9**	**72599.**	**5125.3**
Stddev	5.9	358.	4.1
%RSD	.10671	.49286	.07925
#1	5576.1	72346.	5122.4
#2	5567.7	72852.	5128.1

Sample Name: 280-24056-a-1-b Acquired: 12/28/2011 17:49:45 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 101339 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**-.02185**	**.00236**	**.01189**	**.40222**	**-.00015**	**-.00644**	**479.07**	**.00365**	**.00172**
Stddev	.00040	.00093	.00017	.00007	.00103	.00012	.00208	1.87	.00002	.00008
%RSD	106.83	4.2591	7.3722	.55829	.25523	82.192	32.319	.39001	.64582	4.6256
#1	.00009	-.02119	.00248	.01184	.40149	-.00006	-.00497	477.75	.00363	.00167
#2	.00066	-.02251	.00224	.01193	.40294	-.00023	-.00791	480.39	.00367	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**.00132**	**.00179**	**.61680**	**.00189**	**5.7175**	**.59563**	**.00075**	**.56386**	**.01147**
Stddev	.00035	.00004	.00049	.01783	.00005	.0246	.00176	.00024	.00215	.00031
%RSD	20.590	2.7945	27.593	2.8900	2.5284	.43042	.29497	32.061	.38136	2.7334
#1	.00145	.00135	.00214	.60419	.00186	5.7001	.59439	.00058	.56234	.01169
#2	.00194	.00130	.00144	.62940	.00193	5.7349	.59687	.00092	.56538	.01125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01002**	**-.00128**	**.71214**	**-.00001**	**.00935**	**1.0414**	**.00011**	**1.1967**	**.00034**	**.00090**
Stddev	.00063	.00139	.00075	.00064	.00175	.0059	.00085	.0035	.00061	.00015
%RSD	6.3125	108.80	.10563	8337.3	18.677	.56160	799.12	.29310	181.93	17.231
#1	.01047	-.00029	.71267	.00044	.01058	1.0372	-.00050	1.1942	-.00010	.00101
#2	.00957	-.00226	.71160	-.00046	.00811	1.0455	.00071	1.1991	.00077	.00079
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00156**	**.01227**	**.00136**	**.00680**	**.00064**
Stddev	.00053	.01194	.00001	.00023	.00066
%RSD	33.841	97.320	.71801	3.4192	102.94
#1	-.00194	.02071	.00136	.00697	.00110
#2	-.00119	.00383	.00135	.00664	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5184.1**	**66752.**	**5002.2**
Stddev	8.9	272.	15.0
%RSD	.17082	.40762	.30036
#1	5190.4	66945.	5012.8
#2	5177.9	66560.	4991.6

Sample Name: SD 280-24056-a-1-b@5 Acquired: 12/28/2011 17:52:21 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 101339 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.02335**	**.00301**	**.00321**	**.08072**	**-.00001**	**-.00119**	**98.272**	**.00074**	**.00052**
Stddev	.00008	.00029	.00249	.00033	.00002	.00012	.00070	.129	.00008	.00007
%RSD	30.965	1.2368	82.683	10.424	.03095	1264.5	58.990	.13090	10.271	13.880
#1	.00032	-.02314	.00125	.00345	.08074	-.00010	-.00070	98.181	.00068	.00057
#2	.00021	-.02355	.00478	.00297	.08071	.00008	-.00169	98.363	.00079	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00018**	**.00091**	**.13164**	**.00493**	**1.2123**	**.12039**	**.00012**	**.16764**	**.00267**
Stddev	.00007	.00028	.00181	.03641	.00372	.0074	.00127	.00014	.00953	.00012
%RSD	21.807	157.47	199.32	27.654	75.392	.61136	1.0519	118.15	5.6850	4.5974
#1	.00026	-.00002	.00219	.10590	.00756	1.2071	.11949	.00002	.16090	.00258
#2	.00035	.00038	-.00037	.15739	.00230	1.2175	.12128	.00022	.17438	.00275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00179**	**.00002**	**.14428**	**-.00077**	**-.00081**	**.20251**	**-.00050**	**.24095**	**.00103**	**-.00042**
Stddev	.00307	.00144	.00274	.00044	.00179	.00528	.00071	.00040	.00134	.00013
%RSD	171.34	8072.7	1.9017	57.607	222.35	2.6082	140.52	.16789	130.78	31.155
#1	.00397	-.00100	.14622	-.00046	-.00207	.19878	.00000	.24066	.00197	-.00051
#2	-.00038	.00104	.14234	-.00108	.00046	.20625	-.00100	.24124	.00008	-.00033
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00778**	**.00019**	**.00332**	**-.00035**
Stddev	.00011	.00058	.00063	.00011	.00165
%RSD	49.801	7.4154	322.13	3.2881	470.61
#1	.00031	-.00819	-.00025	.00324	-.00152
#2	.00015	-.00737	.00064	.00340	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5459.2**	**70816.**	**5070.7**
Stddev	1.7	302.	18.6
%RSD	.03152	.42684	.36675
#1	5460.4	71029.	5057.6
#2	5457.9	70602.	5083.9

Sample Name: 280-24056-a-1-c ms Acquired: 12/28/2011 17:54:51 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 101339 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **.22739**	**.34810**	**.86837**	**.19859**	**2.9697**	**.00883**	**.40211**	**438.93**	**.24993**	**.09294**
Stddev	.00065	.00122	.00004	.00026	.0063	.00005	.00014	3.61	.00042	.00021
%RSD	.28679	.35144	.00505	.12971	.21360	.59448	.03476	.82292	.16827	.23037
#1	.22785	.34723	.86840	.19878	2.9741	.00879	.40221	441.49	.25023	.09309
#2	.22693	.34896	.86834	.19841	2.9652	.00886	.40201	436.38	.24963	.09279
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000									
Low Limit	-.01000									

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1399**	**.49354**	**.18202**	**10.141**	**.19450**	**13.714**	**.63121**	**.19538**	F **10.013**	W **9.6854**
Stddev	.0023	.00186	.00049	.009	.00121	.011	.00016	.00007	.036	.4387
%RSD	.20531	.37697	.26659	.08751	.62110	.08101	.02500	.03436	.35932	4.5294
#1	1.1415	.49486	.18237	10.147	.19364	13.722	.63109	.19542	10.038	9.9956
#2	1.1382	.49222	.18168	10.134	.19535	13.706	.63132	.19533	9.9873	9.3752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Warn
High Limit									10.000	500.00
Low Limit									-1.0000	10.000

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10100**	**1.9012**	**1.1632**	**.64718**	**.08550**	**.58387**	**2.8575**	**.37141**	**1.2735**	**.18615**
Stddev	.00014	.0141	.0003	.00360	.00149	.00085	.0177	.00022	.0051	.00133
%RSD	.13902	.74195	.02379	.55555	1.7389	.14481	.61826	.05975	.40076	.71296
#1	.10110	1.9112	1.1634	.64972	.08445	.58447	2.8700	.37156	1.2771	.18709
#2	.10090	1.8912	1.1630	.64463	.08655	.58328	2.8450	.37125	1.2699	.18521
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19914**	**.35515**	**.37960**	**.09282**	**.50891**	**.09333**
Stddev	.00025	.00064	.00060	.00011	.00098	.00205
%RSD	.12795	.17887	.15796	.11402	.19233	2.1996
#1	.19932	.35470	.38002	.09275	.50960	.09479
#2	.19896	.35560	.37918	.09290	.50822	.09188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5187.6**	**67093.**	**5045.2**
Stddev	10.2	72.	5.0
%RSD	.19698	.10762	.09847
#1	5180.4	67144.	5041.7
#2	5194.8	67042.	5048.7

Sample Name: 280-24056-a-1-d msd Acquired: 12/28/2011 17:57:18 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 101339 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **.24338**	**.38636**	**.94266**	**.21554**	**3.1836**	**.00955**	**.44968**	**464.27**	**.26903**	**.10316**
Stddev	.00104	.00033	.00035	.00033	.0238	.00012	.00248	5.69	.00015	.00051
%RSD	.42910	.08654	.03723	.15524	.74748	1.2544	.55111	1.2258	.05483	.49622
#1	.24264	.38613	.94291	.21578	3.1668	.00947	.44793	460.25	.26913	.10352
#2	.24412	.38660	.94241	.21531	3.2004	.00964	.45144	468.30	.26893	.10280
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000									
Low Limit	-.01000									

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2218**	**.52843**	**.21241**	**11.222**	**.22066**	**14.892**	**.67335**	**.21107**	**11.388**	**.11202**
Stddev	.0008	.00125	.00293	.090	.00022	.047	.00277	.00012	.169	.00015
%RSD	.06977	.23644	1.3780	.80049	.10127	.31690	.41097	.05870	1.4807	.13589
#1	1.2224	.52755	.21034	11.159	.22051	14.859	.67139	.21098	11.507	.11191
#2	1.2212	.52931	.21448	11.286	.22082	14.926	.67531	.21116	11.268	.11212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.1174**	**1.2487**	**.69463**	**.09169**	**.64556**	**3.0718**	**.40286**	**1.3608**	**.20403**	**.21484**
Stddev	.0030	.0028	.00498	.00060	.00335	.0277	.00207	.0117	.00132	.00034
%RSD	.14170	.22304	.71687	.65778	.51937	.89997	.51458	.86145	.64883	.15977
#1	2.1195	1.2468	.69111	.09126	.64793	3.0523	.40433	1.3525	.20309	.21460
#2	2.1153	1.2507	.69815	.09212	.64319	3.0914	.40140	1.3691	.20496	.21508
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39174**	**.42236**	**.10295**	**.54708**	**.10171**
Stddev	.00142	.01327	.00034	.00231	.00190
%RSD	.36219	3.1417	.33421	.42180	1.8725
#1	.39074	.41298	.10319	.54545	.10037
#2	.39275	.43174	.10271	.54871	.10306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5159.8**	**67043.**	**5024.7**
Stddev	4.1	232.	21.0
%RSD	.07850	.34555	.41783
#1	5156.9	67207.	5039.5
#2	5162.7	66879.	5009.8

Sample Name: 280-24056-a-1-b PDS Acquired: 12/28/2011 17:59:43 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 101339 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05268**	**.95605**	**.20643**	**.10920**	**.49566**	**.04746**	**-.00971**	**484.75**	**.05455**	**.05021**
Stddev	.00008	.00398	.00229	.00047	.00230	.00013	.00133	2.78	.00004	.00012
%RSD	.16135	.41628	1.1088	.43005	.46399	.27937	13.740	.57298	.07761	.23420
#1	.05262	.95323	.20805	.10887	.49728	.04755	-.00877	486.71	.05452	.05030
#2	.05274	.95886	.20481	.10953	.49403	.04737	-.01066	482.78	.05458	.05013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05172**	**.05138**	**.95948**	**21.234**	**.10690**	**23.787**	**.63161**	**.05065**	**21.299**	**.05971**
Stddev	.00010	.00055	.00737	.064	.00039	.101	.00222	.00010	.083	.00033
%RSD	.20286	1.0795	.76764	.30082	.36859	.42250	.35193	.19337	.38879	.54550
#1	.05164	.05177	.96469	21.279	.10662	23.858	.63318	.05072	21.358	.05994
#2	.05179	.05099	.95427	21.189	.10718	23.716	.63004	.05058	21.241	.05948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0605**	**.09381**	**.71286**	**.10073**	**.20193**	**5.9520**	**.09528**	**1.2308**	**.20130**	**.05150**
Stddev	.0077	.00082	.00180	.00081	.00310	.0206	.00046	.0063	.00043	.00002
%RSD	.37232	.87108	.25245	.80746	1.5357	.34575	.48418	.50944	.21134	.03438
#1	2.0660	.09323	.71414	.10015	.20413	5.9666	.09495	1.2352	.20100	.05148
#2	2.0551	.09439	.71159	.10130	.19974	5.9375	.09560	1.2263	.20160	.05151
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18743**	**.49947**	**.05298**	**.19642**	**.04777**
Stddev	.00068	.01291	.00047	.00051	.00083
%RSD	.36098	2.5842	.89275	.26185	1.7347
#1	.18790	.49035	.05264	.19679	.04719
#2	.18695	.50860	.05331	.19606	.04836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5142.2**	**66705.**	**5022.2**
Stddev	2.9	202.	.2
%RSD	.05558	.30311	.00474
#1	5144.2	66562.	5022.3
#2	5140.2	66848.	5022.0

Sample Name: 280-23648-a-1-h@10 Acquired: 12/28/2011 18:02:12 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: DoD V4.1 Custom ID2: Custom ID3:
Comment: 101339 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.16416**	**.00192**	**.01485**	**.00679**	**-.00001**	**.00011**	**30.162**	W **12.298**	**.00031**
Stddev	.00031	.00010	.00097	.00061	.00028	.00007	.00137	.068	.010	.00013
%RSD	98.572	.06139	50.703	4.1119	4.1014	500.35	1231.5	.22678	.07866	40.928
#1	.00010	.16423	.00261	.01528	.00699	.00004	-.00086	30.210	12.291	.00040
#2	.00054	.16409	.00123	.01442	.00660	-.00007	.00108	30.113	12.305	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									2.0000	
Low Limit									-.00500	

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00132**	**.00430**	**.08408**	**3.5575**	**.00794**	**.86493**	**.04735**	**.00065**	**8.8023**	**.00373**
Stddev	.00014	.00020	.00024	.0013	.00050	.00096	.00002	.00022	.0356	.00017
%RSD	10.688	4.6077	.28455	.03623	6.2679	.11100	.04762	33.847	.40438	4.4886
#1	.00142	.00444	.08391	3.5584	.00759	.86561	.04736	.00080	8.8274	.00361
#2	.00122	.00416	.08425	3.5566	.00829	.86425	.04733	.00049	8.7771	.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01071**	**.32340**	**9.8870**	**-.00037**	**.00228**	**.56718**	**.00025**	**.11030**	**-.00368**	**.00006**
Stddev	.00117	.00029	.0065	.00106	.00013	.00550	.00004	.00019	.00008	.00004
%RSD	10.911	.08904	.06528	289.16	5.5071	.96983	15.848	.17284	2.2262	60.930
#1	.00988	.32320	9.8916	.00038	.00237	.57107	.00022	.11044	-.00374	.00009
#2	.01154	.32361	9.8824	-.00112	.00219	.56329	.00027	.11017	-.00363	.00003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01595**	**-.00113**	**.00216**	**.38386**	**.00107**
Stddev	.00099	.00122	.00029	.00195	.00064
%RSD	6.2378	107.46	13.640	.50760	60.276
#1	.01665	-.00199	.00195	.38524	.00152
#2	.01524	-.00027	.00237	.38249	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5530.1**	**71486.**	**5076.6**
Stddev	7.9	178.	12.0
%RSD	.14286	.24907	.23717
#1	5535.7	71360.	5068.0
#2	5524.5	71612.	5085.1

Sample Name: CCVH-1190977 Acquired: 12/28/2011 18:04:39 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00302**	**49.606**	**-.00346**	**.00292**	**.00072**	**.00007**	**1.0249**	**.06636**	**-.00069**	**.00237**	**.00011**	**-.00220**	**49.508**
Stddev	.00031	.079	.00140	.00000	.00023	.00002	.0015	.00113	.00005	.00007	.00008	.00010	.086
%RSD	10.302	.15877	40.434	.12431	31.143	29.299	.14585	1.6961	6.6302	3.1287	75.431	4.6865	.17293
#1	.00324	49.550	-.00247	.00292	.00088	.00008	1.0259	.06715	-.00073	.00231	.00017	-.00227	49.568
#2	.00280	49.661	-.00445	.00291	.00057	.00005	1.0238	.06556	-.00066	.00242	.00005	-.00213	49.447
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05381**	**.00575**	**.03110**	**-.00064**	**-.00111**	**251.07**	**.00180**	**.00310**	**.00116**	**5.3025**	**-.00522**	**-.00443**	**-.00517**
Stddev	.04022	.00148	.00059	.00007	.00006	.21	.00007	.00201	.00044	.0010	.00051	.00148	.00241
%RSD	74.741	25.672	1.8968	10.439	5.4966	.08529	3.8715	64.734	37.650	.01967	9.7659	33.423	46.711
#1	.02537	.00471	.03068	-.00059	-.00116	250.92	.00175	.00452	.00085	5.3033	-.00486	-.00547	-.00346
#2	.08225	.00680	.03152	-.00069	-.00107	251.22	.00185	.00168	.00147	5.3018	-.00558	-.00338	-.00688
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00059**	**5.0504**	**-.02371**	**.00202**	**10.317**	**.00528**	**.00171**	**-.10825**
Stddev	.00018	.00001	.0087	.00000	.00108	.081	.00007	.00003	.00022
%RSD	17.136	2.1375	.17151	.01716	53.392	.78210	1.3069	1.7833	.20230
#1	.00115	.00060	5.0565	-.02370	.00278	10.374	.00532	.00173	-.10840
#2	.00090	.00058	5.0443	-.02371	.00125	10.260	.00523	.00169	-.10809
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5445.8**	**69210.**	**5054.1**
Stddev	4.2	296.	.2
%RSD	.07676	.42757	.00345
#1	5442.8	69001.	5054.0
#2	5448.7	69419.	5054.2

Sample Name: CCV-1190978 Acquired: 12/28/2011 18:07:05 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51795**	**.50667**	**1.0072**	**.51009**	**.50771**	**.48808**	**-.00028**	**5.0739**	**.51094**	**.51349**	**.50979**	**.50361**	**2.4891**
Stddev	.00116	.00336	.0025	.00078	.00080	.00071	.00375	.0037	.00037	.00015	.00047	.00119	.0000
%RSD	.22379	.66388	.24527	.15328	.15805	.14537	1350.6	.07320	.07184	.02836	.09161	.23728	.00016
#1	.51713	.50429	1.0054	.51064	.50714	.48758	.00237	5.0713	.51120	.51359	.50946	.50277	2.4891
#2	.51877	.50905	1.0089	.50953	.50828	.48858	-.00293	5.0765	.51068	.51338	.51012	.50446	2.4891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.571**	**1.0056**	**20.146**	**.49996**	**.50455**	**5.0707**	**.51098**	**1.0071**	**1.0256**	**.00314**	**1.0078**	**1.0033**	**4.9055**
Stddev	.062	.0010	.040	.00068	.00016	.0115	.00063	.0003	.0027	.00077	.0043	.0003	.0032
%RSD	.12499	.09791	.19936	.13552	.03139	.22736	.12325	.02699	.26726	24.376	.42914	.03412	.06539
#1	49.527	1.0063	20.118	.49949	.50467	5.0626	.51053	1.0073	1.0276	.00260	1.0109	1.0031	4.9033
#2	49.614	1.0049	20.175	.50044	.50444	5.0789	.51143	1.0069	1.0237	.00368	1.0048	1.0036	4.9078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0041**	**.49569**	**-.00416**	**.50684**	**1.0496**	**-.00954**	**.51123**	**.50388**	**.49721**
Stddev	.0008	.00055	.00110	.00035	.0008	.00229	.00105	.00039	.00207
%RSD	.07792	.11108	26.368	.06876	.07666	24.047	.20559	.07659	.41671
#1	1.0046	.49530	-.00338	.50659	1.0502	-.01116	.51049	.50361	.49575
#2	1.0035	.49608	-.00493	.50708	1.0491	-.00792	.51197	.50415	.49868
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5570.4**	**71052.**	**5070.5**
Stddev	5.4	14.	23.5
%RSD	.09653	.01956	.46252
#1	5574.2	71062.	5087.1
#2	5566.6	71042.	5053.9

Sample Name: CCB Acquired: 12/28/2011 18:09:21 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	W **-.02487**	**.00203**	**.00127**	**.00031**	**-.00006**	**.00049**	**.00044**	**.00010**	**.00008**
Stddev	.00030	.00012	.00097	.00000	.00001	.00001	.00118	.00301	.00013	.00008
%RSD	41.324	.50091	47.780	.04949	2.0379	20.425	240.54	681.10	141.58	103.35
#1	.00095	-.02495	.00272	.00127	.00032	-.00007	.00133	.00257	.00000	.00014
#2	.00052	-.02478	.00134	.00127	.00031	-.00005	-.00034	-.00169	.00019	.00002
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800								
Low Limit		-.01800								

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00041**	**-.00033**	**.03785**	**.00203**	**.00216**	**-.00014**	**.00050**	**.08484**	**-.00004**
Stddev	.00015	.00019	.00050	.04686	.00157	.00045	.00001	.00020	.00463	.00014
%RSD	41.828	45.187	149.48	123.83	77.266	20.632	10.348	38.871	5.4634	346.37
#1	.00026	.00054	-.00068	.07098	.00314	.00248	-.00013	.00064	.08156	-.00014
#2	.00048	.00028	.00002	.00471	.00092	.00185	-.00015	.00036	.08811	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00243**	**.00029**	**.00302**	W **.00467**	**.00095**	**-.01329**	**.00065**	**.00011**	**.00009**	**.00009**
Stddev	.00028	.00087	.00342	.00021	.00170	.00913	.00094	.00011	.00042	.00011
%RSD	11.621	302.81	113.22	4.5864	178.61	68.687	143.40	105.25	459.04	125.18
#1	-.00223	.00091	.00060	.00452	.00215	-.00684	-.00001	.00003	-.00020	.00001
#2	-.00263	-.00033	.00544	.00482	-.00025	-.01975	.00131	.00019	.00038	.00017
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00314						
Low Limit				-.00314						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00120**	**.01704**	**.00018**	**.00162**	**.00209**
Stddev	.00098	.02182	.00031	.00001	.00071
%RSD	81.673	128.08	171.73	.88000	33.914
#1	-.00190	.00161	.00040	.00161	.00159
#2	-.00051	.03246	-.00004	.00163	.00259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5536.2**	**71933.**	**5007.1**
Stddev	16.1	37.	11.7
%RSD	.29107	.05138	.23401
#1	5524.8	71907.	5015.4
#2	5547.6	71959.	4998.8

Sample Name: CCVL1192076 Acquired: 12/28/2011 18:11:53 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01029**	**.08522**	W **.01833**	**.10349**	**.01017**	**.00086**	W **.12187**	**.19725**	**.00505**	**.01054**	**.01009**
Stddev	.00018	.00078	.00150	.00002	.00008	.00004	.00171	.00349	.00004	.00009	.00018
%RSD	1.7265	.91231	8.2040	.01798	.73810	5.1066	1.4017	1.7703	.85423	.86325	1.7664
#1	.01041	.08467	.01726	.10348	.01022	.00090	.12066	.19972	.00508	.01048	.00997
#2	.01016	.08577	.01939	.10351	.01011	.00083	.12308	.19478	.00502	.01061	.01022
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.01500				.10000				
Range			20.000%				20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01601**	**.09875**	**2.9741**	W **.01273**	**.21311**	**.00998**	**.01956**	**1.0648**	**.04232**	**2.9312**	**.00861**
Stddev	.00001	.00107	.0189	.00211	.00012	.00000	.00010	.0085	.00040	.0001	.00019
%RSD	.08670	1.0881	.63582	16.570	.05784	.02862	.51709	.80014	.93804	.00248	2.1527
#1	.01600	.09799	2.9607	.01422	.21302	.00999	.01949	1.0588	.04260	2.9311	.00848
#2	.01602	.09951	2.9874	.01124	.21320	.00998	.01963	1.0708	.04204	2.9312	.00874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				20.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00182**	**.00814**	**.01229**	**.46829**	**.10093**	**.00996**	**.01404**	**.00992**	**.01701**	W **.07424**	**.01034**
Stddev	.00003	.00010	.00062	.00032	.00045	.00010	.00022	.00011	.00061	.01750	.00003
%RSD	1.8008	1.2500	5.0202	.06842	.45050	1.0233	1.5740	1.1109	3.6123	23.579	.30026
#1	.00179	.00822	.01272	.46852	.10061	.00989	.01419	.01000	.01658	.06186	.01036
#2	.00184	.00807	.01185	.46806	.10125	.01004	.01388	.00985	.01745	.08662	.01032
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value										.06000	
Range										20.000%	

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02190**	**.01665**
Stddev	.00007	.00224
%RSD	.30268	13.422
#1	.02186	.01824
#2	.02195	.01507
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5691.1**	**73532.**	**5127.4**
Stddev	3.7	265.	32.8
%RSD	.06491	.35974	.63990
#1	5688.5	73719.	5150.6
#2	5693.7	73345.	5104.2

Sample Name: mb 280-101350/1-a Acquired: 12/28/2011 18:14:22 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.02289**	**.00105**	**.00136**	**.00005**	**-.00002**	**-.00076**	**.00140**	**.00004**	**-.00010**
Stddev	.00006	.00019	.00182	.00038	.00011	.00000	.00002	.00014	.00005	.00023
%RSD	23.286	.82493	172.66	27.686	216.03	15.264	2.1013	9.8447	117.31	233.30
#1	.00032	-.02302	-.00023	.00162	-.00003	-.00002	-.00077	.00150	.00001	-.00026
#2	.00023	-.02276	.00234	.00109	.00013	-.00003	-.00074	.00131	.00007	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00005**	**.00021**	**.07694**	**.00292**	**.00123**	**-.00008**	**-.00001**	**.06885**	**.00010**
Stddev	.00004	.00020	.00109	.03173	.00098	.00129	.00000	.00003	.00640	.00007
%RSD	33.008	393.18	520.28	41.235	33.383	105.10	5.8822	314.97	9.2891	70.592
#1	-.00010	.00020	.00098	.09937	.00223	.00032	-.00009	-.00003	.06433	.00005
#2	-.00015	-.00009	-.00056	.05450	.00361	.00214	-.00008	.00001	.07337	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**-.00048**	**.00151**	**.00020**	**.00072**	**-.01274**	**-.00037**	**.00009**	**-.00018**	**-.00020**
Stddev	.00056	.00004	.00208	.00046	.00169	.00408	.00005	.00002	.00003	.00008
%RSD	76.630	7.6974	137.59	228.05	234.42	31.997	13.896	18.666	14.207	37.302
#1	-.00113	-.00050	.00298	-.00012	-.00047	-.01562	-.00041	.00010	-.00016	-.00026
#2	-.00034	-.00045	.00004	.00053	.00192	-.00985	-.00034	.00008	-.00020	-.00015
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.00097**	**-.00032**	**.00215**	**.00038**
Stddev	.00100	.00162	.00000	.00018	.00038
%RSD	260.95	166.00	.44601	8.2060	100.63
#1	.00032	.00017	-.00032	.00227	.00065
#2	-.00109	-.00212	-.00031	.00202	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5607.9**	**73357.**	**5087.8**
Stddev	3.8	130.	31.1
%RSD	.06767	.17782	.61092
#1	5610.6	73449.	5109.8
#2	5605.2	73264.	5065.9

Sample Name: lcs 280-101350/2-a Acquired: 12/28/2011 18:16:54 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05553**	**2.0011**	**1.0243**	**1.0280**	**2.0666**	**.05023**	F **2.2420**	**50.416**	**.09886**	**.50857**
Stddev	.00019	.0097	.0061	.0011	.0111	.00011	.0020	.252	.00003	.00117
%RSD	.34742	.48254	.59387	.10712	.53696	.22737	.08801	.49915	.03307	.23081
#1	.05566	1.9943	1.0200	1.0288	2.0745	.05031	2.2434	50.594	.09884	.50774
#2	.05539	2.0080	1.0286	1.0272	2.0588	.05015	2.2406	50.238	.09888	.50940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							2.2000			
Low Limit							1.8000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20739**	**.25631**	**1.0143**	**51.650**	**1.0403**	**49.709**	**.51011**	**1.0386**	**52.346**	**.51203**
Stddev	.00001	.00049	.0019	.259	.0066	.025	.00130	.0003	.289	.00074
%RSD	.00553	.18965	.18360	.50141	.62938	.05049	.25483	.03321	.55222	.14478
#1	.20738	.25665	1.0156	51.833	1.0449	49.726	.51103	1.0384	52.551	.51151
#2	.20740	.25596	1.0129	51.467	1.0357	49.691	.50919	1.0389	52.142	.51256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.406**	**.51522**	**.01088**	**.51784**	**1.9986**	**10.156**	**2.0360**	**1.0285**	**1.0179**	**1.0447**
Stddev	.000	.00047	.00357	.00023	.0022	.081	.0009	.0052	.0028	.0033
%RSD	.00195	.09127	32.805	.04490	.11201	.80102	.04464	.50843	.27101	.31186
#1	10.406	.51489	.00835	.51768	2.0002	10.213	2.0367	1.0322	1.0198	1.0470
#2	10.406	.51555	.01340	.51801	1.9970	10.098	2.0354	1.0248	1.0159	1.0424
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0448**	**2.1964**	**.52575**	**.49711**	**.50045**
Stddev	.0031	.0125	.00044	.00119	.00237
%RSD	.14898	.56920	.08390	.23944	.47366
#1	2.0427	2.2053	.52606	.49795	.50212
#2	2.0470	2.1876	.52543	.49626	.49877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5389.2**	**69492.**	**5062.0**
Stddev	3.7	261.	31.2
%RSD	.06808	.37621	.61539
#1	5391.8	69677.	5040.0
#2	5386.6	69307.	5084.0

Sample Name: 280-24103-m-1-a Acquired: 12/28/2011 18:19:10 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.02169**	**.00948**	**3.6153**	**.08998**	**-.00006**	**-.00367**	**176.63**	**-.00001**	**.00065**
Stddev	.00011	.00003	.00095	.0032	.00020	.00004	.00031	.32	.00008	.00001
%RSD	35.786	.14691	10.035	.08702	.22072	60.551	8.4818	.18336	741.70	.96413
#1	.00023	-.02171	.00880	3.6175	.09012	-.00003	-.00389	176.86	.00005	.00066
#2	.00038	-.02167	.01015	3.6131	.08983	-.00008	-.00345	176.40	-.00007	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00291**	**.03067**	**5.9197**	**57.236**	**.00312**	**48.899**	**1.3870**	**.00069**	**241.76**	**.00367**
Stddev	.00005	.00022	.0204	.225	.00005	.308	.0078	.00051	.48	.00005
%RSD	1.6822	.72999	.34500	.39372	1.6009	.62928	.56153	73.904	.19701	1.2400
#1	.00287	.03083	5.9341	57.396	.00316	49.117	1.3926	.00033	242.09	.00364
#2	.00294	.03051	5.9053	57.077	.00308	48.682	1.3815	.00105	241.42	.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21867**	**-.00029**	**25.977**	**.00118**	**.00330**	**1.8463**	**.00043**	**.36126**	**-.00169**	**.00039**
Stddev	.00335	.00052	.049	.00044	.00010	.0095	.00074	.00112	.00008	.00010
%RSD	1.5328	177.50	.18989	37.729	3.0795	.51651	172.76	.31047	5.0349	24.982
#1	.21630	.00007	26.012	.00149	.00337	1.8530	-.00009	.36206	-.00175	.00032
#2	.22104	-.00065	25.942	.00086	.00323	1.8395	.00095	.36047	-.00163	.00046
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.02087**	**.00230**	**.02710**	**.00112**
Stddev	.00267	.00768	.00039	.00034	.00141
%RSD	254.04	36.786	16.936	1.2640	126.32
#1	-.00294	.02630	.00258	.02734	.00212
#2	.00084	.01544	.00203	.02685	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5219.1**	**67323.**	**5107.7**
Stddev	4.6	383.	12.8
%RSD	.08891	.56863	.25046
#1	5215.8	67052.	5116.8
#2	5222.4	67593.	5098.7

Sample Name: sd 280-24103-m-1-a@5 Acquired: 12/28/2011 18:21:38 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.02393**	**.00159**	**.72897**	**.01807**	**.00004**	**-.00155**	**35.467**	**.00018**	**.00035**
Stddev	.00030	.00058	.00102	.00167	.00009	.00005	.00118	.052	.00007	.00025
%RSD	251.86	2.4051	63.945	.22857	.49709	148.66	76.461	.14605	40.249	71.140
#1	-.00033	-.02433	.00231	.73015	.01813	.00007	-.00071	35.504	.00023	.00052
#2	.00009	-.02352	.00087	.72779	.01801	.00000	-.00239	35.431	.00013	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**.00637**	**1.1887**	**11.042**	**.00475**	**10.057**	**.27675**	**.00005**	**48.541**	**.00089**
Stddev	.00012	.00025	.0058	.031	.00210	.021	.00053	.00029	.071	.00001
%RSD	14.768	3.8873	.48965	.28473	44.308	.21030	.19046	610.24	.14702	1.5663
#1	.00086	.00620	1.1928	11.019	.00623	10.042	.27637	.00025	48.591	.00090
#2	.00070	.00655	1.1846	11.064	.00326	10.072	.27712	-.00016	48.490	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04413**	**-.00057**	**4.9228**	**.00009**	**.00006**	**.34787**	**-.00034**	**.07259**	**-.00031**	**-.00023**
Stddev	.00058	.00067	.0004	.00085	.00270	.00414	.00096	.00021	.00060	.00016
%RSD	1.3073	118.16	.00723	995.77	4282.9	1.1904	285.85	.28527	197.34	70.448
#1	.04372	-.00104	4.9230	.00069	.00198	.34495	.00034	.07274	.00012	-.00034
#2	.04454	-.00009	4.9225	-.00052	-.00185	.35080	-.00102	.07245	-.00073	-.00011
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**-.00204**	**.00071**	**.00780**	**.00207**
Stddev	.00070	.01455	.00018	.00025	.00010
%RSD	127.84	712.45	25.954	3.2046	4.6796
#1	-.00005	-.01233	.00058	.00798	.00200
#2	-.00104	.00825	.00084	.00763	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5472.0**	**70861.**	**5082.9**
Stddev	2.5	310.	22.1
%RSD	.04537	.43688	.43571
#1	5470.2	71080.	5098.5
#2	5473.8	70642.	5067.2

Sample Name: 280-24103-m-1-b ms Acquired: 12/28/2011 18:24:06 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05582**	**1.8743**	**1.0481**	**4.5665**	**2.1060**	**.04878**	**2.1850**	**221.71**	**.09889**	**.49128**
Stddev	.00008	.0037	.0006	.0071	.0006	.00018	.0054	.07	.00029	.00004
%RSD	.14509	.19597	.06176	.15573	.02885	.36784	.24746	.02958	.29309	.00752
#1	.05587	1.8717	1.0476	4.5614	2.1056	.04866	2.1812	221.67	.09910	.49125
#2	.05576	1.8769	1.0485	4.5715	2.1065	.04891	2.1888	221.76	.09869	.49130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20466**	**.28760**	**6.8284**	W **108.76**	**1.0463**	**95.837**	**1.8612**	**1.0146**	**290.28**	**.49395**
Stddev	.00007	.00126	.0033	.08	.0006	.027	.0005	.0006	.18	.00031
%RSD	.03428	.43796	.04781	.07134	.05862	.02861	.02724	.05757	.06156	.06205
#1	.20461	.28849	6.8307	108.82	1.0458	95.818	1.8608	1.0142	290.41	.49416
#2	.20471	.28671	6.8261	108.71	1.0467	95.856	1.8615	1.0150	290.16	.49373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				100.00						
Low Limit				-.50000						

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.884**	**.48462**	**25.723**	**.51522**	**2.0130**	**11.330**	**1.9237**	**1.3606**	**.99878**	**1.0215**
Stddev	.009	.00196	.002	.00017	.0045	.043	.0012	.0006	.00102	.0001
%RSD	.08041	.40533	.00887	.03254	.22300	.38074	.06232	.04463	.10234	.01240
#1	10.878	.48601	25.725	.51534	2.0162	11.299	1.9229	1.3610	.99950	1.0215
#2	10.890	.48323	25.721	.51511	2.0099	11.360	1.9246	1.3602	.99806	1.0216
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8450**	**2.1140**	**.51916**	**.50080**	**.48653**
Stddev	.0043	.0038	.00160	.00172	.00036
%RSD	.23310	.17879	.30830	.34365	.07305
#1	1.8480	2.1167	.51803	.50202	.48678
#2	1.8419	2.1113	.52029	.49958	.48628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5142.5**	**66347.**	**5073.6**
Stddev	1.8	29.	8.0
%RSD	.03541	.04329	.15697
#1	5143.8	66367.	5067.9
#2	5141.2	66327.	5079.2

Sample Name: 280-24103-m-1-c msd Acquired: 12/28/2011 18:26:25 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05629**	**1.8715**	**1.0438**	**4.5865**	**2.1028**	**.04871**	**2.1799**	**222.88**	**.09893**	**.48925**
Stddev	.00094	.0020	.0025	.0020	.0151	.00043	.0020	1.52	.00022	.00008
%RSD	1.6739	.10879	.23917	.04313	.72020	.88204	.09187	.68374	.21751	.01649
#1	.05562	1.8701	1.0421	4.5879	2.1135	.04901	2.1813	223.96	.09877	.48919
#2	.05695	1.8730	1.0456	4.5851	2.0921	.04840	2.1785	221.80	.09908	.48931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20385**	**.28610**	**6.8791**	W **109.11**	**1.0460**	**95.850**	**1.8654**	**1.0101**	**292.10**	**.49284**
Stddev	.00029	.00118	.0402	.83	.0061	.398	.0075	.0001	1.30	.00013
%RSD	.14156	.41243	.58388	.75832	.58276	.41560	.40064	.01486	.44504	.02727
#1	.20365	.28527	6.9075	109.69	1.0503	95.569	1.8601	1.0102	293.02	.49274
#2	.20405	.28694	6.8506	108.52	1.0417	96.132	1.8707	1.0100	291.18	.49293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				100.00						
Low Limit				-.50000						

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.860**	**.48310**	**25.877**	**.51137**	**2.0131**	**11.289**	**1.9143**	**1.3621**	**.99204**	**1.0121**
Stddev	.011	.00257	.017	.00123	.0043	.058	.0036	.0097	.00531	.0034
%RSD	.09712	.53260	.06511	.24084	.21411	.51496	.18689	.71144	.53487	.33960
#1	10.867	.48128	25.889	.51224	2.0101	11.330	1.9169	1.3690	.98829	1.0097
#2	10.852	.48492	25.865	.51050	2.0162	11.248	1.9118	1.3553	.99579	1.0145
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8394**	**2.1231**	**.51581**	**.49642**	**.48296**
Stddev	.0001	.0203	.00169	.00171	.00705
%RSD	.00323	.95630	.32673	.34438	1.4607
#1	1.8393	2.1375	.51462	.49521	.48795
#2	1.8394	2.1088	.51701	.49763	.47797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5125.7**	**66378.**	**5070.9**
Stddev	1.4	206.	38.5
%RSD	.02734	.30972	.75950
#1	5126.7	66524.	5043.7
#2	5124.8	66233.	5098.1

Sample Name: 280-24105-c-1-a Acquired: 12/28/2011 18:28:47 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.12633**	**.00151**	**3.6532**	**.02393**	**-.00007**	**-.00049**	**10.568**	**.00006**	**.00023**
Stddev	.00042	.00069	.00236	.0024	.00004	.00003	.00319	.005	.00010	.00010
%RSD	150.87	.54978	156.11	.06608	.15965	42.630	653.33	.05061	154.89	42.872
#1	-.00058	.12682	.00318	3.6549	.02391	-.00009	-.00275	10.564	.00013	.00016
#2	.00002	.12583	-.00016	3.6515	.02396	-.00005	.00177	10.572	-.00001	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**.00182**	**.27272**	**4.4187**	**.06797**	**4.1097**	**.00599**	**.00285**	W **838.66**	**.00069**
Stddev	.00003	.00007	.00146	.0056	.00105	.0199	.00000	.00008	.50	.00005
%RSD	4.0656	4.0239	.53556	.12567	1.5488	.48291	.01277	2.8955	.05963	6.9444
#1	.00074	.00188	.27376	4.4148	.06722	4.1238	.00599	.00291	838.31	.00072
#2	.00078	.00177	.27169	4.4226	.06871	4.0957	.00599	.00279	839.01	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08325**	**-.00136**	**147.48**	**.00064**	**.00239**	**5.2772**	**.00000**	**1.5442**	**-.00156**	**.01834**
Stddev	.00205	.00111	.07	.00003	.00154	.0124	.00035	.0022	.00002	.00181
%RSD	2.4577	81.624	.04640	4.9839	64.555	.23445	10460.	.14375	1.1527	9.8477
#1	.08469	-.00214	147.53	.00062	.00348	5.2685	.00025	1.5427	-.00157	.01962
#2	.08180	-.00057	147.43	.00067	.00130	5.2860	-.00024	1.5458	-.00154	.01706
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.02475**	**.00072**	**.00342**	**.00028**
Stddev	.00048	.00292	.00038	.00006	.00094
%RSD	376.02	11.783	53.488	1.8422	342.66
#1	.00046	.02681	.00099	.00338	.00094
#2	-.00021	.02268	.00045	.00347	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5123.6**	**63760.**	**4948.4**
Stddev	7.7	387.	4.6
%RSD	.15082	.60740	.09210
#1	5118.2	63486.	4951.6
#2	5129.1	64034.	4945.2

Sample Name: 280-24105-c-2-a Acquired: 12/28/2011 18:32:01 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**-.02203**	**-.00003**	**.16843**	**.03389**	**-.00013**	**-.00396**	**278.46**	**.00005**	**.00227**
Stddev	.00015	.00001	.00014	.00093	.00033	.00004	.00099	1.52	.00013	.00003
%RSD	25.808	.06566	429.43	.54992	.95978	35.550	24.948	.54699	248.42	1.2464
#1	.00067	-.02202	.00007	.16908	.03366	-.00016	-.00466	277.38	.00014	.00225
#2	.00046	-.02204	-.00013	.16777	.03412	-.00009	-.00326	279.53	-.00004	.00229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00114**	**.89747**	**2.7526**	**.03095**	**17.871**	**2.1300**	**.00295**	**245.45**	**.00232**
Stddev	.00010	.00027	.00803	.0160	.00256	.059	.0046	.00002	1.33	.00035
%RSD	75.959	23.899	.89465	.58137	8.2829	.33058	.21459	.82046	.53982	15.228
#1	.00006	.00095	.90315	2.7639	.02914	17.830	2.1268	.00296	246.39	.00257
#2	.00021	.00134	.89180	2.7413	.03277	17.913	2.1333	.00293	244.52	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04268**	**-.00193**	**198.74**	**-.00051**	**.00187**	**8.6046**	**-.00095**	**2.5961**	**.00016**	**.00058**
Stddev	.00099	.00130	.17	.00004	.00396	.0064	.00012	.0098	.00145	.00009
%RSD	2.3118	67.432	.08493	8.2148	211.89	.07400	12.564	.37698	921.41	15.502
#1	.04337	-.00101	198.86	-.00054	-.00093	8.6001	-.00104	2.6030	.00118	.00064
#2	.04198	-.00285	198.62	-.00048	.00467	8.6091	-.00087	2.5892	-.00087	.00051
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**-.01350**	**-.00083**	**.00386**	**.00026**
Stddev	.00021	.03466	.00081	.00032	.00136
%RSD	19.952	256.69	97.798	8.1863	527.90
#1	-.00092	-.03801	-.00140	.00409	-.00070
#2	-.00122	.01100	-.00026	.00364	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5144.8**	**65707.**	**4962.1**
Stddev	12.0	34.	2.7
%RSD	.23284	.05108	.05462
#1	5153.3	65730.	4964.1
#2	5136.3	65683.	4960.2

Sample Name: 280-24105-c-3-a Acquired: 12/28/2011 18:34:35 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.47289**	**.02580**	**2.4117**	**.02757**	**-.00005**	**-.00120**	**95.319**	**-.00023**	**.00053**
Stddev	.00015	.00135	.00189	.0015	.00036	.00002	.00100	.343	.00017	.00008
%RSD	35.497	.28446	7.3192	.06084	1.2901	39.727	83.840	.35998	72.979	15.725
#1	-.00054	.47194	.02713	2.4106	.02732	-.00003	-.00191	95.562	-.00035	.00059
#2	-.00032	.47384	.02446	2.4127	.02782	-.00006	-.00049	95.077	-.00011	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00251**	**4.6223**	**3.8998**	**.06571**	**10.692**	**.24569**	**.05066**	W **780.13**	**.00151**
Stddev	.00011	.00019	.0177	.0022	.00110	.031	.00076	.00003	2.08	.00008
%RSD	19.924	7.5665	.38381	.05549	1.6788	.29250	.30914	.06559	.26681	5.4237
#1	.00047	.00238	4.6348	3.9013	.06493	10.670	.24516	.05064	781.60	.00156
#2	.00063	.00265	4.6097	3.8982	.06649	10.714	.24623	.05069	778.66	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33071**	**-.00177**	**223.85**	**.00084**	**.00072**	**8.7179**	**.00011**	**2.6326**	**-.00072**	**.02079**
Stddev	.00043	.00043	.03	.00159	.00088	.0126	.00024	.0089	.00078	.00151
%RSD	.13024	24.420	.01388	189.58	122.26	.14475	223.47	.33887	108.83	7.2590
#1	.33041	-.00146	223.87	-.00029	.00134	8.7268	-.00006	2.6389	-.00017	.01972
#2	.33101	-.00207	223.83	.00196	.00010	8.7090	.00027	2.6263	-.00127	.02185
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.01694**	**.00105**	**.00475**	**.00150**
Stddev	.00063	.03279	.00024	.00022	.00182
%RSD	59.961	193.60	22.292	4.5384	121.05
#1	-.00060	-.00625	.00122	.00490	.00279
#2	-.00149	.04013	.00089	.00459	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5160.1**	**64346.**	**4997.0**
Stddev	2.2	258.	8.0
%RSD	.04231	.40102	.16094
#1	5158.6	64529.	4991.3
#2	5161.7	64164.	5002.7

Sample Name: CCVH-1190977 Acquired: 12/28/2011 18:37:45 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00315**	**51.528**	**-.00075**	**.01247**	**.00034**	**-.00002**	**1.0179**	**.01863**	**-.00166**	**.00234**	**-.00007**	**-.00213**	**51.370**
Stddev	.00035	.453	.00079	.00045	.00032	.00001	.0020	.00621	.00019	.00009	.00003	.00011	.470
%RSD	11.272	.87875	106.08	3.6490	94.447	65.858	.19310	33.334	11.614	3.8862	42.721	5.2018	.91557
#1	.00340	51.848	-.00131	.01279	.00057	-.00001	1.0192	.02302	-.00152	.00240	-.00005	-.00221	51.702
#2	.00290	51.208	-.00019	.01215	.00011	-.00003	1.0165	.01424	-.00179	.00227	-.00010	-.00205	51.037
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13624**	**.00400**	**.02542**	**-.00065**	**-.00106**	**261.06**	**.00151**	**.00414**	**.00073**	**5.3109**	**-.00530**	**.00111**	**-.01110**
Stddev	.02257	.00007	.00080	.00010	.00016	2.09	.00008	.00039	.00100	.0069	.00120	.00268	.00105
%RSD	16.563	1.7418	3.1553	15.529	15.412	.80220	5.1167	9.4804	137.04	.13036	22.663	241.69	9.4914
#1	.12029	.00405	.02599	-.00072	-.00094	262.54	.00146	.00442	.00002	5.3158	-.00445	-.00079	-.01036
#2	.15220	.00395	.02485	-.00058	-.00118	259.58	.00157	.00386	.00144	5.3060	-.00614	.00301	-.01185
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00153**	**.00053**	**4.9858**	**-.02395**	**.00263**	**10.199**	**.00540**	**.00212**	**-.09393**
Stddev	.00030	.00009	.0110	.00045	.00050	.028	.00014	.00012	.00214
%RSD	19.741	17.375	.21992	1.8915	19.070	.27362	2.5355	5.7630	2.2821
#1	.00175	.00060	4.9935	-.02427	.00298	10.180	.00530	.00203	-.09241
#2	.00132	.00047	4.9780	-.02363	.00227	10.219	.00550	.00220	-.09544
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5423.7**	**69527.**	**4872.2**
Stddev	5.8	27.	35.0
%RSD	.10605	.03852	.71770
#1	5419.6	69546.	4847.5
#2	5427.8	69508.	4896.9

Sample Name: CCV-1190978 Acquired: 12/28/2011 18:40:10 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50680**	**.50310**	**.99620**	**.50878**	**.50250**	**.48545**	**.00199**	**5.0278**	**.50262**	**.50824**	**.50523**	**.49772**	**2.4775**
Stddev	.00642	.00168	.00192	.00153	.00100	.00103	.00057	.0130	.00095	.00047	.00082	.00672	.0106
%RSD	1.2659	.33412	.19272	.30076	.19918	.21133	28.862	.25752	.18867	.09232	.16147	1.3506	.42723
#1	.51133	.50191	.99756	.50770	.50320	.48617	.00239	5.0369	.50195	.50791	.50465	.50247	2.4850
#2	.50226	.50429	.99485	.50986	.50179	.48472	.00158	5.0186	.50329	.50857	.50581	.49296	2.4701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.778**	**1.0146**	**19.998**	**.49685**	**.50004**	**5.2137**	**.50804**	**.99406**	**1.0124**	**.03829**	**.98976**	**.99106**	**4.8734**
Stddev	.142	.0028	.248	.00647	.00037	.0193	.00054	.00187	.0002	.00445	.00117	.00283	.0208
%RSD	.28577	.27353	1.2412	1.3023	.07329	.37053	.10707	.18828	.01692	11.624	.11825	.28582	.42605
#1	49.879	1.0166	20.173	.50143	.50030	5.2274	.50765	.99539	1.0126	.04144	.98893	.98906	4.8880
#2	49.678	1.0127	19.822	.49228	.49978	5.2001	.50842	.99274	1.0123	.03515	.99059	.99307	4.8587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99826**	**.49522**	**-.00639**	**.50070**	**1.0338**	**-.00069**	**.50441**	**.50219**	**.49493**
Stddev	.00140	.00178	.00032	.00595	.0018	.01564	.00727	.00598	.00213
%RSD	.14024	.35950	5.0776	1.1876	.17400	2280.2	1.4417	1.1905	.43114
#1	.99925	.49648	-.00662	.50491	1.0325	-.01174	.50956	.50641	.49644
#2	.99727	.49396	-.00616	.49650	1.0351	.01037	.49927	.49796	.49342
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5540.5**	**70811.**	**4979.4**
Stddev	4.8	527.	12.8
%RSD	.08647	.74466	.25802
#1	5543.9	70438.	4970.4
#2	5537.1	71183.	4988.5

Sample Name: CCB Acquired: 12/28/2011 18:42:27 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	W **-.02410**	**.00255**	F **.00721**	**.00024**	**.00005**	**-.00184**	**.00160**	**.00023**	**-.00022**	**.00022**
Stddev	.00066	.00039	.00196	.00064	.00043	.00005	.00059	.00107	.00007	.00014	.00010
%RSD	162.85	1.6114	77.171	8.9402	174.90	114.39	31.791	66.644	31.355	62.322	45.171
#1	.00088	-.02383	.00393	.00766	.00054	.00008	-.00143	.00236	.00018	-.00032	.00015
#2	-.00006	-.02438	.00116	.00675	-.00006	.00001	-.00226	.00085	.00028	-.00012	.00029
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00312							
Low Limit		-.01800		-.00312							

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00071**	**.07934**	**.00190**	**.00112**	**-.00015**	**.00049**	F **.25394**	**.00011**	**-.00025**	**.00066**
Stddev	.00026	.00061	.01063	.00348	.00088	.00001	.00002	.00894	.00016	.00084	.00055
%RSD	735.90	85.082	13.398	182.76	78.833	4.0428	4.5136	3.5195	150.96	334.64	83.276
#1	.00022	.00028	.07183	.00437	.00174	-.00016	.00047	.26026	.00022	.00034	.00105
#2	-.00015	.00114	.08686	-.00056	.00049	-.00015	.00050	.24762	-.00001	-.00084	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit								.10000			
Low Limit								-.10000			

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02874**	W **.00469**	**.00139**	**-.00680**	**-.00003**	**.00012**	**.00038**	**.00002**	**-.00136**	**-.00588**	**-.00033**
Stddev	.00027	.00035	.00061	.01049	.00041	.00013	.00049	.00023	.00041	.01159	.00007
%RSD	.95141	7.4797	43.865	154.24	1431.9	110.74	130.31	1053.1	30.400	196.92	21.951
#1	.02854	.00494	.00182	.00062	.00026	.00021	.00072	-.00014	-.00107	-.01408	-.00028
#2	.02893	.00444	.00096	-.01422	-.00032	.00003	.00003	.00019	-.00166	.00231	-.00038
Check ?	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.00314									
Low Limit		-.00314									

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.00121**	**.00130**
Stddev	.00004	.00137
%RSD	3.2733	105.23
#1	.00124	.00033
#2	.00119	.00226
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5504.5**	**71694.**	**4931.9**
Stddev	5.7	90.	8.9
%RSD	.10402	.12547	.17998
#1	5500.5	71757.	4938.1
#2	5508.6	71630.	4925.6

Sample Name: CCVL1192076 Acquired: 12/28/2011 18:44:59 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00987**	**.08695**	**.01568**	**.10697**	**.01039**	**.00100**	**.11840**	W **.24259**	**.00514**	**.01069**	**.01002**
Stddev	.00016	.00047	.00166	.00030	.00024	.00003	.00021	.00683	.00010	.00005	.00010
%RSD	1.6222	.53904	10.557	.28016	2.3123	2.8764	.17822	2.8162	1.8585	.50496	.95310
#1	.00975	.08728	.01685	.10676	.01056	.00102	.11825	.24742	.00521	.01066	.00995
#2	.00998	.08661	.01451	.10719	.01022	.00098	.11855	.23776	.00508	.01073	.01008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value								.20000			
Range								20.000%			

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01563**	**.10179**	**3.0403**	**.01192**	**.21607**	**.01025**	**.01933**	W **1.2774**	**.04221**	**2.9001**	**.00965**
Stddev	.00010	.00126	.0377	.00199	.00157	.00002	.00005	.0030	.00043	.0022	.00031
%RSD	.66037	1.2404	1.2396	16.665	.72521	.16785	.23661	.23819	1.0132	.07650	3.2257
#1	.01570	.10090	3.0669	.01052	.21496	.01026	.01930	1.2753	.04252	2.8986	.00987
#2	.01556	.10269	3.0136	.01332	.21718	.01024	.01936	1.2796	.04191	2.9017	.00943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value								1.0000			
Range								20.000%			

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03200**	**.00952**	W **.01198**	**.47683**	**.10027**	**.01053**	**.01351**	**.00996**	**.01742**	F **.08052**	**.00968**
Stddev	.00337	.00034	.00073	.02489	.00009	.00004	.00056	.00016	.00046	.02538	.00010
%RSD	10.526	3.5425	6.0659	5.2195	.08681	.34664	4.1252	1.6472	2.6192	31.523	1.0585
#1	.03438	.00928	.01146	.45923	.10021	.01055	.01312	.01008	.01774	.09846	.00961
#2	.02962	.00976	.01249	.49443	.10033	.01050	.01390	.00985	.01709	.06257	.00976
Check ?	None	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.01500							.06000	
Range			-20.000%							30.000%	

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02196**	**.01716**
Stddev	.00011	.00102
%RSD	.49020	5.9421
#1	.02203	.01644
#2	.02188	.01788
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5653.8**	**73032.**	**5046.0**
Stddev	6.2	57.	17.2
%RSD	.11042	.07750	.34131
#1	5658.2	73072.	5033.8
#2	5649.4	72992.	5058.2

Sample Name: 280-24105-c-4-a Acquired: 12/28/2011 18:47:28 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.55831**	**.00001**	**.16534**	**.03278**	**.00002**	**-.00300**	**238.25**	**.00034**	**.00079**
Stddev	.00003	.00229	.00205	.00105	.00024	.00007	.00085	.52	.00003	.00009
%RSD	391.25	.41059	17545.	.63289	.72378	439.46	28.471	.21826	7.6064	11.469
#1	.00001	.55669	.00146	.16608	.03295	.00006	-.00240	238.62	.00036	.00072
#2	-.00003	.55993	-.00144	.16460	.03261	-.00003	-.00360	237.88	.00032	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00188**	**.50549**	**.85107**	**.02026**	**15.396**	**.17142**	**.01122**	**73.196**	**.00679**
Stddev	.00003	.00009	.00039	.01029	.00035	.094	.00102	.00022	.584	.00007
%RSD	4.7427	4.5854	.07798	1.2087	1.7232	.61237	.59441	1.9822	.79791	.99250
#1	.00062	.00182	.50577	.85835	.02051	15.462	.17214	.01107	73.609	.00684
#2	.00058	.00194	.50521	.84380	.02002	15.329	.17070	.01138	72.783	.00674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02306**	**-.00087**	**118.99**	**.00029**	**.00338**	**10.317**	**-.00049**	**2.3624**	**.00050**	**.01979**
Stddev	.00030	.00076	.18	.00060	.00303	.061	.00038	.0098	.00046	.00239
%RSD	1.3015	87.242	.15424	208.41	89.485	.58867	77.519	.41331	93.397	12.063
#1	.02285	-.00033	119.12	-.00014	.00124	10.360	-.00075	2.3693	.00082	.01810
#2	.02328	-.00141	118.86	.00071	.00553	10.274	-.00022	2.3555	.00017	.02148
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00402**	**.00201**	**.00466**	**.00092**
Stddev	.00083	.01612	.00059	.00028	.00118
%RSD	171.67	401.04	29.558	5.9795	128.48
#1	.00010	-.00738	.00242	.00485	.00008
#2	-.00107	.01542	.00159	.00446	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5266.2**	**67200.**	**4970.6**
Stddev	.2	222.	2.0
%RSD	.00294	.33011	.04011
#1	5266.3	67043.	4969.2
#2	5266.1	67357.	4972.0

Sample Name: 280-24105-c-5-a Acquired: 12/28/2011 18:49:56 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.01945**	**.00134**	**.18224**	**.03667**	**.00000**	**-.00392**	**230.88**	**.00008**	**.00233**
Stddev	.00013	.00012	.00320	.00019	.00032	.00007	.00154	.11	.00013	.00030
%RSD	43.013	.59396	238.16	.10341	.86831	2991.1	39.349	.04912	153.36	12.959
#1	.00021	-.01953	-.00092	.18210	.03645	-.00005	-.00283	230.96	-.00001	.00255
#2	.00039	-.01937	.00361	.18237	.03690	.00005	-.00501	230.80	.00017	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00121**	**2.1402**	**1.9538**	**.02988**	**15.699**	**1.1683**	**.00223**	**212.37**	**.00270**
Stddev	.00011	.00008	.0010	.0021	.00344	.024	.0020	.00020	.40	.00013
%RSD	162.48	6.6323	.04580	.10475	11.520	.15533	.17439	9.1809	.18602	4.6786
#1	.00015	.00127	2.1409	1.9553	.03232	15.682	1.1668	.00208	212.10	.00261
#2	-.00001	.00116	2.1395	1.9524	.02745	15.716	1.1697	.00237	212.65	.00279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04726**	**-.00089**	**125.68**	**.00097**	**.00261**	**9.8564**	**-.00115**	**2.3449**	**-.00027**	**.00026**
Stddev	.00021	.00116	.20	.00069	.00307	.0314	.00081	.0019	.00140	.00026
%RSD	.45346	130.51	.16131	71.041	117.65	.31857	70.748	.08075	516.08	102.56
#1	.04711	-.00171	125.53	.00048	.00044	9.8342	-.00172	2.3463	-.00126	.00044
#2	.04741	-.00007	125.82	.00145	.00478	9.8787	-.00057	2.3436	.00072	.00007
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00828**	**-.00022**	**.00448**	**.00002**
Stddev	.00099	.00427	.00020	.00003	.00024
%RSD	637.79	51.517	89.983	.77600	1147.9
#1	.00086	.01130	-.00008	.00450	-.00015
#2	-.00055	.00526	-.00036	.00445	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5179.7**	**66088.**	**4935.8**
Stddev	4.0	124.	16.8
%RSD	.07804	.18802	.34054
#1	5176.8	66176.	4947.7
#2	5182.6	66000.	4923.9

Sample Name: 280-24109-d-1-a Acquired: 12/28/2011 18:52:23 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.01709**	**.00272**	**.00452**	**.00024**	**-.00004**	**-.00323**	**.05572**	**.00019**	**-.00012**
Stddev	.00014	.00275	.00206	.00015	.00037	.00010	.00114	.00072	.00018	.00002
%RSD	46.973	16.108	75.837	3.3019	149.44	227.93	35.197	1.2856	91.998	14.035
#1	.00041	-.01515	.00126	.00463	-.00001	-.00012	-.00404	.05623	.00032	-.00013
#2	.00021	-.01904	.00417	.00442	.00050	.00003	-.00243	.05522	.00007	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00028**	**.00460**	**.03973**	**.00323**	**.00871**	**.00012**	**-.00012**	**.29287**	**.00006**
Stddev	.0000	.00027	.00212	.00251	.00036	.00424	.00005	.00002	.00673	.00000
%RSD	708.15	97.072	45.983	6.3147	11.194	48.725	37.422	20.763	2.2989	8.3712
#1	.00002	.00047	.00311	.03795	.00348	.00571	.00009	-.00010	.29763	.00006
#2	-.00003	.00009	.00610	.04150	.00297	.01171	.00016	-.00013	.28810	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00015**	**.06541**	**.00017**	**-.00071**	**.00347**	**-.00041**	**.00061**	**.00139**	**.00010**
Stddev	.00097	.00031	.01439	.00047	.00183	.01274	.00002	.00007	.00014	.00022
%RSD	101.25	202.38	22.004	281.65	258.58	367.25	4.0199	12.313	9.7921	230.79
#1	.00164	-.00007	.07559	.00050	-.00200	-.00554	-.00042	.00066	.00149	-.00006
#2	.00027	.00037	.05523	-.00017	.00059	.01247	-.00040	.00056	.00129	.00025
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**-.01655**	**-.00049**	**.00528**	**.00052**
Stddev	.00050	.01939	.00011	.00049	.00042
%RSD	54.700	117.17	21.741	9.2969	80.595
#1	-.00056	-.03025	-.00057	.00493	.00022
#2	-.00127	-.00284	-.00042	.00563	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5613.9**	**72993.**	**5053.9**
Stddev	3.5	238.	18.0
%RSD	.06271	.32621	.35591
#1	5616.4	72824.	5066.6
#2	5611.4	73161.	5041.1

Sample Name: 280-24109-d-2-a Acquired: 12/28/2011 18:54:55 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**2.3119**	**.00377**	**.01922**	**.01894**	**.00002**	**-.00186**	**43.449**	**.00008**	**.00014**
Stddev	.00020	.0153	.00168	.00020	.00017	.00007	.00287	.118	.00010	.00020
%RSD	400.21	.66277	44.406	1.0327	.88563	350.30	154.15	.27234	114.94	140.00
#1	.00009	2.3010	.00496	.01936	.01882	-.00003	.00017	43.365	.00002	.00000
#2	-.00019	2.3227	.00259	.01908	.01906	.00007	-.00390	43.533	.00015	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01493**	**.00188**	**.31672**	**.69042**	**.00511**	**.21045**	**.00206**	**.00162**	**1.7808**	**.00080**
Stddev	.00015	.00009	.00111	.00942	.00326	.00319	.00007	.00001	.0036	.00009
%RSD	.99534	4.8474	.35170	1.3638	63.893	1.5173	3.4154	.71503	.19949	11.681
#1	.01483	.00195	.31751	.69708	.00280	.20819	.00211	.00163	1.7833	.00086
#2	.01504	.00182	.31594	.68376	.00741	.21271	.00201	.00161	1.7783	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01858**	**-.00017**	**8.6551**	**-.00054**	**-.00128**	**7.8874**	**.00010**	**.13744**	**.00106**	**.01927**
Stddev	.00100	.00116	.0112	.00239	.00126	.0140	.00026	.00030	.00051	.00033
%RSD	5.3557	682.41	.12918	445.14	98.713	.17721	255.75	.21752	47.633	1.6997
#1	.01929	-.00099	8.6630	-.00223	-.00039	7.8973	.00028	.13722	.00142	.01903
#2	.01788	.00065	8.6472	.00115	-.00217	7.8776	-.00008	.13765	.00070	.01950
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.03023**	**.01683**	**.00453**	**.00175**
Stddev	.00077	.01292	.00035	.00011	.00141
%RSD	2387.8	42.752	2.0537	2.3863	80.391
#1	-.00058	.02109	.01707	.00445	.00076
#2	.00051	.03937	.01658	.00461	.00274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5585.1**	**71967.**	**5063.9**
Stddev	4.3	147.	7.7
%RSD	.07652	.20417	.15199
#1	5582.1	72071.	5058.5
#2	5588.1	71863.	5069.3

Sample Name: 280-24109-d-3-a Acquired: 12/28/2011 18:57:24 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.46696**	**-.00075**	**.01899**	**.02021**	**-.00002**	**-.00396**	**19.388**	**.00048**	**.00072**
Stddev	.00056	.00396	.00065	.00033	.00045	.00006	.00057	.103	.00008	.00002
%RSD	276.72	.84712	85.779	1.7483	2.2163	339.38	14.388	.53025	16.962	3.2066
#1	.00059	.46416	-.00030	.01923	.01990	-.00006	-.00356	19.315	.00043	.00070
#2	-.00019	.46975	-.00121	.01876	.02053	.00003	-.00437	19.461	.00054	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00273**	**.00084**	**.24733**	**1.6131**	**.00667**	**5.2740**	**.01661**	**.00000**	**11.110**	**.00168**
Stddev	.00011	.00010	.00073	.0391	.00205	.0078	.00009	.0001	.096	.00009
%RSD	3.9768	11.479	.29529	2.4247	30.791	.14785	.53715	35808.	.86560	5.5021
#1	.00281	.00077	.24681	1.5855	.00522	5.2685	.01655	-.00007	11.042	.00175
#2	.00266	.00091	.24784	1.6408	.00812	5.2795	.01668	.00007	11.178	.00162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.5378**	**-.00014**	**.18222**	**-.00096**	**.00305**	**6.2268**	**-.00027**	**.04573**	**.00062**	**.01019**
Stddev	.0007	.00025	.00227	.00118	.00103	.0470	.00033	.00013	.00052	.00112
%RSD	.04358	176.84	1.2477	122.32	33.840	.75482	124.09	.28692	83.500	11.016
#1	1.5373	.00004	.18383	-.00179	.00232	6.1936	-.00003	.04563	.00025	.00940
#2	1.5383	-.00032	.18061	-.00013	.00377	6.2600	-.00050	.04582	.00099	.01098
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00133**	**.00202**	**.00617**	**.00075**
Stddev	.00053	.01852	.00029	.00021	.00168
%RSD	282.24	1397.5	14.472	3.3464	224.74
#1	-.00019	.01177	.00223	.00603	.00194
#2	.00056	-.01442	.00182	.00632	-.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5554.8**	**71873.**	**5060.0**
Stddev	.3	174.	18.9
%RSD	.00628	.24206	.37374
#1	5554.6	71996.	5073.3
#2	5555.1	71750.	5046.6

Sample Name: 280-24109-d-4-a Acquired: 12/28/2011 18:59:54 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.67320**	**.00291**	**.02129**	**.01127**	**.00000**	**-.00188**	**35.142**	**.00021**	**.00005**
Stddev	.00021	.00253	.00127	.00054	.00012	.00016	.00081	.096	.00006	.00008
%RSD	3145.1	.37627	43.634	2.5189	1.0986	3888.3	42.982	.27339	30.017	153.22
#1	-.00016	.67499	.00381	.02167	.01136	-.00011	-.00245	35.210	.00026	.00000
#2	.00014	.67141	.00201	.02091	.01119	.00012	-.00131	35.074	.00017	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01897**	**.00106**	**.63109**	**.73733**	**.00575**	**13.003**	**.05046**	**.00267**	**7.9033**	**.00304**
Stddev	.00001	.00030	.00007	.03648	.00103	.056	.00007	.00008	.0442	.00004
%RSD	.07329	28.126	.01076	4.9477	17.827	.43215	.13938	3.1467	.55992	1.4627
#1	.01898	.00085	.63113	.71153	.00503	12.963	.05041	.00261	7.9346	.00307
#2	.01896	.00127	.63104	.76312	.00648	13.042	.05051	.00273	7.8720	.00301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27695**	**-.00040**	**2.6841**	**.00040**	**.00275**	**6.5272**	**-.00040**	**.07723**	**.00023**	**.00824**
Stddev	.00012	.00190	.0066	.00008	.00259	.0135	.00032	.00016	.00052	.00017
%RSD	.04310	473.88	.24580	20.157	94.129	.20672	79.114	.20543	229.02	2.0579
#1	.27703	.00094	2.6794	.00046	.00092	6.5368	-.00063	.07734	.00060	.00812
#2	.27686	-.00174	2.6887	.00035	.00458	6.5177	-.00018	.07712	-.00014	.00836
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00307**	**.00557**	**.00589**	**.00070**
Stddev	.00029	.02140	.00009	.00006	.00188
%RSD	170.09	697.92	1.6234	.93824	268.71
#1	.00004	.01206	.00563	.00593	-.00063
#2	-.00038	-.01820	.00550	.00585	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5520.2**	**71483.**	**5039.7**
Stddev	9.0	282.	11.4
%RSD	.16226	.39392	.22583
#1	5513.9	71682.	5031.7
#2	5526.6	71283.	5047.8

Sample Name: 280-24109-d-5-a Acquired: 12/28/2011 19:02:23 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**1.3681**	**.00538**	**.01352**	**.01633**	**-.00003**	**-.00403**	**25.667**	**.00014**	**.00005**
Stddev	.00015	.0134	.00234	.00043	.00060	.00001	.00157	.009	.00000	.00013
%RSD	143.83	.97618	43.487	3.1981	3.6677	23.227	38.908	.03592	3.2887	245.20
#1	.00000	1.3586	.00373	.01383	.01675	-.00003	-.00292	25.673	.00014	-.00004
#2	.00021	1.3775	.00704	.01322	.01591	-.00004	-.00514	25.660	.00013	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00231**	**.00118**	**.42552**	**1.1441**	**.00359**	**10.653**	**.00657**	**.06512**	**3.8463**	**.00106**
Stddev	.00003	.00005	.00037	.0239	.00119	.081	.00005	.00012	.0218	.00001
%RSD	1.1481	4.1696	.08775	2.0937	33.007	.75660	.83439	.18198	.56572	.49685
#1	.00233	.00122	.42526	1.1611	.00275	10.596	.00653	.06520	3.8309	.00106
#2	.00229	.00115	.42579	1.1272	.00443	10.710	.00661	.06503	3.8617	.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38822**	**.00080**	**4.0362**	**-.00076**	**.00130**	**7.2301**	**-.00012**	**.05851**	**-.00063**	**.03049**
Stddev	.00318	.00068	.0010	.00048	.00026	.0162	.00043	.00014	.00017	.00195
%RSD	.81860	85.588	.02418	63.100	20.296	.22418	351.63	.23313	26.355	6.4046
#1	.39047	.00128	4.0369	-.00110	.00111	7.2186	.00018	.05841	-.00075	.02911
#2	.38598	.00031	4.0356	-.00042	.00149	7.2415	-.00043	.05860	-.00052	.03187
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.00032**	**.00267**	**.00455**	**.00163**
Stddev	.00071	.00538	.00036	.00017	.00014
%RSD	414.56	1666.4	13.513	3.6357	8.5211
#1	-.00033	-.00413	.00293	.00467	.00173
#2	.00068	.00348	.00242	.00443	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5548.6**	**71704.**	**5036.0**
Stddev	11.9	496.	10.0
%RSD	.21356	.69231	.19882
#1	5540.2	72055.	5043.1
#2	5557.0	71353.	5028.9

Sample Name: 280-24109-d-6-a Acquired: 12/28/2011 19:04:51 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.13663**	**.00032**	**.01524**	**.04416**	**.00005**	**-.00469**	**3.0150**	**.00020**	**.00040**
Stddev	.00024	.00011	.00114	.00029	.00021	.00002	.00017	.0115	.00011	.00008
%RSD	74.363	.08182	353.85	1.8816	.48389	30.818	3.5353	.38250	56.802	21.211
#1	.00015	.13655	-.00049	.01504	.04401	.00006	-.00481	3.0068	.00028	.00034
#2	.00049	.13671	.00113	.01545	.04431	.00004	-.00457	3.0231	.00012	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**.00043**	**.03281**	**1.8390**	**.00615**	**2.0870**	**.00515**	**-.00021**	**2.3008**	**.00056**
Stddev	.00007	.00018	.00233	.0325	.00261	.0028	.00004	.00008	.0121	.00009
%RSD	4.3655	43.143	7.1121	1.7686	42.378	.13337	.73292	39.574	.52627	15.779
#1	.00164	.00030	.03446	1.8620	.00800	2.0889	.00518	-.00015	2.2922	.00062
#2	.00175	.00055	.03116	1.8160	.00431	2.0850	.00513	-.00026	2.3093	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09350**	**-.00012**	**2.8401**	**-.00081**	**.00176**	**4.9220**	**-.00022**	**.02005**	**.00164**	**.00280**
Stddev	.00037	.00013	.0090	.00115	.00126	.0377	.00010	.00008	.00011	.00017
%RSD	.39493	106.38	.31634	141.64	71.835	.76657	45.752	.42271	6.5845	6.1641
#1	.09376	-.00003	2.8337	-.00163	.00086	4.8953	-.00030	.01999	.00156	.00267
#2	.09324	-.00022	2.8464	.00000	.00265	4.9487	-.00015	.02011	.00171	.00292
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00366**	**.00076**	**.00731**	**-.00076**
Stddev	.00014	.00331	.00050	.00012	.00046
%RSD	91.135	90.614	64.970	1.6747	60.416
#1	-.00026	.00600	.00041	.00722	-.00109
#2	-.00006	.00131	.00111	.00739	-.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5607.8**	**72755.**	**5044.0**
Stddev	5.7	37.	.4
%RSD	.10088	.05036	.00701
#1	5611.8	72781.	5044.2
#2	5603.8	72729.	5043.7

Sample Name: CCVH-1190977 Acquired: 12/28/2011 19:07:22 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00339**	**49.483**	**-.00053**	**.00306**	**.00023**	**.00001**	**1.0308**	**.01644**	**-.00162**	**.00201**	**-.00012**	**-.00134**	**49.421**
Stddev	.00056	.132	.00326	.00037	.00012	.00001	.0027	.00221	.00014	.00002	.00001	.00016	.215
%RSD	16.402	.26631	618.99	12.175	51.715	160.74	.25958	13.465	8.5685	.93168	9.4415	12.144	.43540
#1	.00378	49.576	.00178	.00332	.00015	.00002	1.0289	.01487	-.00171	.00202	-.00011	-.00123	49.574
#2	.00300	49.390	-.00284	.00280	.00032	.00000	1.0327	.01800	-.00152	.00199	-.00012	-.00146	49.269
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02279**	**.00481**	**.02394**	**-.00061**	**-.00126**	**252.77**	**.00186**	**.00435**	**.00131**	**5.3112**	**-.00398**	**-.00140**	**.00583**
Stddev	.01135	.00074	.00503	.00002	.00002	.02	.00008	.00080	.00029	.0030	.00001	.00096	.01244
%RSD	49.803	15.411	20.998	3.5185	1.5255	.00849	4.1688	18.455	22.257	.05658	.28094	68.464	213.39
#1	.03082	.00429	.02750	-.00060	-.00124	252.79	.00180	.00378	.00111	5.3133	-.00397	-.00207	.01463
#2	.01477	.00533	.02039	-.00063	-.00127	252.76	.00191	.00491	.00152	5.3091	-.00399	-.00072	-.00297
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00125**	**.00049**	**5.0358**	**-.02408**	**.00222**	**10.326**	**.00556**	**.00270**	**-.10662**
Stddev	.00012	.00009	.0087	.00036	.00035	.052	.00032	.00042	.00086
%RSD	9.8580	17.963	.17259	1.5037	15.795	.50172	5.6722	15.624	.80732
#1	.00134	.00043	5.0419	-.02433	.00197	10.362	.00534	.00240	-.10722
#2	.00116	.00055	5.0296	-.02382	.00247	10.289	.00578	.00300	-.10601
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5398.6**	**68441.**	**4959.8**
Stddev	16.2	33.	.6
%RSD	.30004	.04838	.01122
#1	5387.1	68465.	4960.2
#2	5410.0	68418.	4959.4

Sample Name: CCV-1190978 Acquired: 12/28/2011 19:09:48 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51141**	**.50359**	**1.0083**	**.51020**	**.50890**	**.49072**	**-.00064**	**5.0688**	**.50983**	**.51287**	**.50954**	**.50140**	**2.4982**
Stddev	.00055	.00102	.0047	.00031	.00057	.00089	.00021	.0164	.00077	.00057	.00143	.00144	.0056
%RSD	.10816	.20187	.46340	.06170	.11257	.18135	33.177	.32442	.15158	.11135	.28056	.28684	.22319
#1	.51102	.50431	1.0116	.51042	.50931	.49135	-.00049	5.0804	.51038	.51327	.51055	.50038	2.5022
#2	.51180	.50287	1.0050	.50997	.50850	.49009	-.00079	5.0572	.50929	.51247	.50853	.50241	2.4943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.214**	**1.0235**	**20.019**	**.49851**	**.50403**	**5.1454**	**.51064**	**1.0066**	**1.0240**	**.00855**	**1.0042**	**1.0010**	**4.9111**
Stddev	.034	.0035	.017	.00051	.00152	.0107	.00145	.0013	.0006	.00307	.0042	.0028	.0049
%RSD	.06718	.34421	.08302	.10175	.30238	.20772	.28355	.12758	.05461	35.886	.41463	.28185	.10028
#1	50.238	1.0260	20.007	.49815	.50511	5.1530	.51166	1.0075	1.0244	.01072	1.0071	1.0030	4.9146
#2	50.190	1.0211	20.031	.49887	.50296	5.1378	.50961	1.0057	1.0236	.00638	1.0012	.99898	4.9076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0058**	**.49988**	**-.00682**	**.50224**	**1.0481**	**.00747**	**.50671**	**.50029**	**.50075**
Stddev	.0034	.00105	.00106	.00028	.0013	.00577	.00014	.00024	.00140
%RSD	.34044	.20914	15.481	.05556	.12002	77.233	.02779	.04716	.28038
#1	1.0082	.50062	-.00607	.50204	1.0473	.00339	.50661	.50013	.49976
#2	1.0034	.49915	-.00756	.50243	1.0490	.01156	.50681	.50046	.50174
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5556.8**	**71079.**	**4986.4**
Stddev	16.5	82.	.1
%RSD	.29648	.11539	.00293
#1	5545.2	71021.	4986.3
#2	5568.5	71137.	4986.5

Sample Name: CCB Acquired: 12/28/2011 19:12:04 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	W **-.02435**	**.00148**	W **.00238**	**.00004**	**-.00007**	**-.00084**	**-.00299**	**.00011**	**-.00002**
Stddev	.00013	.00029	.00008	.00007	.00035	.00001	.00084	.00420	.00008	.00016
%RSD	37.872	1.1937	5.4551	2.9880	829.55	14.225	100.03	140.67	75.407	763.64
#1	.00045	-.02415	.00143	.00243	.00029	-.00007	-.00144	-.00002	.00005	.00009
#2	.00026	-.02456	.00154	.00233	-.00021	-.00006	-.00025	-.00596	.00017	-.00013
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00156						
Low Limit		-.01800		-.00156						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**-.00014**	**-.00022**	**.04831**	**.00168**	**-.00076**	**-.00016**	**.00038**	F **.13518**	**-.00013**
Stddev	.00001	.00050	.00125	.00820	.00083	.00329	.00002	.00017	.01592	.00000
%RSD	3.0818	364.57	580.81	16.974	49.162	430.96	10.107	45.188	11.780	3.0253
#1	.00038	.00022	.00067	.05410	.00110	.00156	-.00017	.00050	.14644	-.00012
#2	.00036	-.00049	-.00110	.04251	.00226	-.00309	-.00015	.00026	.12392	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit									.10000	
Low Limit									-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**-.00051**	**.00928**	W **.00442**	**.00016**	**-.00159**	**-.00024**	**.00010**	**.00037**	**.00009**
Stddev	.00000	.00049	.00345	.00246	.00151	.00485	.00019	.00002	.00095	.00007
%RSD	.21095	97.900	37.227	55.746	955.41	304.80	80.623	23.120	257.43	74.940
#1	-.00105	-.00086	.01172	.00268	-.00091	.00184	-.00010	.00012	.00104	.00014
#2	-.00106	-.00016	.00683	.00616	.00123	-.00502	-.00037	.00008	-.00030	.00004
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00314						
Low Limit				-.00314						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00108**	**.02445**	**.00002**	**.00154**	**.00099**
Stddev	.00016	.02544	.00021	.00008	.00031
%RSD	15.104	104.05	932.07	4.9854	31.109
#1	-.00097	.00646	-.00013	.00149	.00077
#2	-.00120	.04245	.00017	.00160	.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5533.8**	**72372.**	**5004.3**
Stddev	4.9	6.	5.0
%RSD	.08767	.00877	.10047
#1	5537.2	72368.	5000.8
#2	5530.3	72377.	5007.9

Sample Name: CCVL1192076 Acquired: 12/28/2011 19:14:38 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01099**	**.08514**	**.01487**	**.10373**	**.00980**	**.00088**	W **.12222**	**.20020**	**.00515**	**.01067**	**.00999**
Stddev	.00001	.00100	.00168	.00006	.00015	.00010	.00255	.00191	.00004	.00009	.00010
%RSD	.13637	1.1755	11.331	.05615	1.4835	11.911	2.0872	.95323	.82362	.86556	1.0006
#1	.01100	.08443	.01606	.10377	.00990	.00095	.12403	.20155	.00518	.01074	.01006
#2	.01097	.08585	.01368	.10369	.00970	.00080	.12042	.19885	.00512	.01061	.00992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							.10000				
Range							20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01578**	**.09930**	**2.9440**	**.01137**	**.20807**	**.01002**	**.01945**	**1.1046**	**.04229**	**2.9249**	**.00929**
Stddev	.00014	.00038	.0590	.00063	.00433	.00001	.00012	.0281	.00036	.0058	.00098
%RSD	.91800	.38180	2.0048	5.5188	2.0807	.11897	.59986	2.5472	.85629	.19837	10.526
#1	.01588	.09957	2.9857	.01093	.21114	.01003	.01937	1.1245	.04203	2.9208	.00999
#2	.01568	.09903	2.9023	.01181	.20501	.01001	.01953	1.0847	.04254	2.9290	.00860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00555**	**.00924**	**.01382**	**.46234**	**.09981**	**.01005**	**.01436**	**.00999**	**.01673**	W **.07523**	**.00994**
Stddev	.00159	.00183	.00209	.00902	.00002	.00004	.00060	.00011	.00025	.00236	.00014
%RSD	28.593	19.770	15.143	1.9514	.01841	.37217	4.1666	1.1144	1.5093	3.1396	1.3582
#1	.00443	.00795	.01530	.46872	.09980	.01003	.01394	.01007	.01691	.07690	.01004
#2	.00668	.01053	.01234	.45596	.09983	.01008	.01478	.00991	.01655	.07356	.00985
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value										.06000	
Range										20.000%	

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02189**	**.01487**
Stddev	.00008	.00014
%RSD	.35778	.96233
#1	.02195	.01477
#2	.02183	.01497
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5677.2**	**73554.**	**5111.8**
Stddev	11.4	71.	7.7
%RSD	.20093	.09666	.15152
#1	5685.3	73504.	5106.4
#2	5669.2	73604.	5117.3

Sample Name: 280-24109-d-7-a Acquired: 12/28/2011 19:17:09 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**-.01441**	**.00208**	**.01515**	**.01266**	**-.00001**	**-.00096**	**46.599**	**.00001**	**.00024**
Stddev	.00005	.00011	.00020	.00027	.00025	.00006	.00009	.106	.00001	.00035
%RSD	9.4645	.79536	9.6034	1.7737	1.9987	1178.0	9.6015	.22755	75.016	150.56
#1	.00046	-.01449	.00222	.01496	.01284	.00004	-.00090	46.524	.00001	-.00002
#2	.00053	-.01433	.00194	.01534	.01248	-.00005	-.00103	46.674	.00000	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**.00086**	**.00410**	**.52494**	**.00645**	**2.2459**	**.00002**	**.00018**	**5.8536**	**.00177**
Stddev	.00009	.00010	.00102	.00188	.00005	.0095	.00006	.00003	.0157	.00001
%RSD	12.386	12.207	24.962	.35785	.76679	.42396	260.75	14.075	.26890	.33807
#1	.00069	.00093	.00482	.52627	.00641	2.2391	-.00002	.00020	5.8425	.00176
#2	.00083	.00079	.00338	.52361	.00648	2.2526	.00006	.00016	5.8647	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00972**	**-.00028**	**3.0137**	**-.00059**	**.00154**	**4.6200**	**-.00027**	**.15648**	**.00061**	**-.00014**
Stddev	.00049	.00067	.0007	.00023	.00137	.0164	.00016	.00054	.00003	.00001
%RSD	5.0622	242.00	.02314	39.797	88.972	.35528	57.495	.34735	4.6822	9.2825
#1	.00937	.00020	3.0142	-.00042	.00057	4.6084	-.00038	.15609	.00063	-.00013
#2	.01007	-.00075	3.0132	-.00076	.00251	4.6316	-.00016	.15686	.00059	-.00015
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00098**	**.00037**	**.00259**	**.00106**
Stddev	.00051	.02470	.00003	.00008	.00131
%RSD	237.13	2522.3	7.2918	3.1097	123.46
#1	.00057	.01649	.00039	.00265	.00013
#2	-.00014	-.01845	.00035	.00254	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5506.2**	**71752.**	**5058.6**
Stddev	.8	249.	22.0
%RSD	.01375	.34748	.43506
#1	5506.7	71928.	5074.2
#2	5505.6	71575.	5043.1

Sample Name: 280-24109-d-8-a Acquired: 12/28/2011 19:19:38 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.45735**	**.00365**	**.01600**	**.00477**	**-.00009**	**-.00271**	**16.628**	**.00025**	**-.00011**
Stddev	.00015	.00611	.00115	.00009	.00037	.00008	.00010	.015	.00003	.00005
%RSD	74.191	1.3369	31.593	.54417	7.8342	87.243	3.5504	.09103	12.494	49.887
#1	.00010	.45302	.00447	.01594	.00503	-.00003	-.00264	16.618	.00023	-.00007
#2	.00031	.46167	.00284	.01606	.00451	-.00014	-.00278	16.639	.00027	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.00039**	**.21718**	**.56898**	**.00376**	**6.1941**	**.00223**	**.00311**	**6.3497**	**.00078**
Stddev	.00014	.00053	.00131	.02886	.00081	.0095	.00003	.00012	.0123	.00021
%RSD	9.8934	136.77	.60144	5.0720	21.599	.15344	1.3387	4.0143	.19357	27.406
#1	.00129	.00001	.21626	.54858	.00433	6.2009	.00221	.00302	6.3584	.00093
#2	.00148	.00076	.21811	.58939	.00318	6.1874	.00225	.00320	6.3411	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28984**	**-.00046**	**.83095**	**.00191**	**.00039**	**6.5393**	**-.00003**	**.19676**	**-.00010**	**.00903**
Stddev	.00130	.00027	.00144	.00083	.00009	.0046	.00098	.00029	.00025	.00019
%RSD	.44718	57.950	.17346	43.284	22.278	.07105	3040.3	.14920	242.97	2.1271
#1	.29076	-.00065	.83197	.00133	.00045	6.5426	-.00072	.19697	-.00028	.00889
#2	.28893	-.00027	.82993	.00250	.00033	6.5360	.00066	.19655	.00007	.00917
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	**.01559**	**.00081**	**.00433**	**-.00066**
Stddev	.00102	.00044	.00010	.00018	.00021
%RSD	103.99	2.8419	11.839	4.1846	31.185
#1	-.00171	.01591	.00088	.00420	-.00052
#2	-.00026	.01528	.00074	.00446	-.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5587.5**	**72811.**	**5115.6**
Stddev	.0	83.	4.5
%RSD	.00008	.11387	.08732
#1	5587.5	72752.	5112.4
#2	5587.5	72870.	5118.7

Sample Name: 280-24109-d-9-a Acquired: 12/28/2011 19:22:07 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.19283**	**.00338**	**.02388**	**.02040**	**-.00004**	**-.00324**	**60.966**	**.00027**	**.00121**
Stddev	.00024	.00032	.00154	.00008	.00044	.00005	.00180	.368	.00013	.00001
%RSD	74.740	.16829	45.666	.32187	2.1447	121.12	55.475	.60401	47.230	.53511
#1	.00049	.19306	.00447	.02382	.02071	-.00007	-.00197	61.227	.00018	.00122
#2	.00015	.19261	.00229	.02393	.02009	-.00001	-.00452	60.706	.00036	.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00125**	**.00188**	**.11255**	**2.0646**	**.00580**	**3.6175**	**.00241**	**.00013**	**7.3019**	**.00428**
Stddev	.00018	.00044	.00222	.0568	.00208	.0042	.00002	.00005	.0484	.00023
%RSD	14.500	23.232	1.9747	2.7532	35.870	.11584	.66548	34.687	.66256	5.3073
#1	.00138	.00219	.11098	2.1048	.00433	3.6146	.00240	.00010	7.3361	.00444
#2	.00112	.00157	.11412	2.0244	.00727	3.6205	.00242	.00016	7.2677	.00412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19433**	**.00084**	**6.8664**	**.00082**	**.00153**	**4.4794**	**.00001**	**.13337**	**.00059**	**.00470**
Stddev	.00151	.00063	.0013	.00042	.00186	.0382	.00010	.00078	.00239	.00009
%RSD	.77886	75.896	.01840	50.894	121.30	.85317	1679.3	.58333	403.84	2.0014
#1	.19540	.00039	6.8673	.00052	.00022	4.5065	.00008	.13392	.00228	.00477
#2	.19326	.00128	6.8655	.00111	.00285	4.4524	-.00006	.13282	-.00110	.00464
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.00585**	**.00110**	**.00448**	**-.00070**
Stddev	.00011	.03829	.00043	.00046	.00060
%RSD	26.546	654.35	39.525	10.220	86.135
#1	.00049	-.03293	.00079	.00415	-.00027
#2	.00033	.02122	.00141	.00480	-.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5476.4**	**71001.**	**5081.6**
Stddev	6.4	8.	12.9
%RSD	.11647	.01149	.25302
#1	5480.9	70996.	5072.5
#2	5471.9	71007.	5090.7

Sample Name: 280-24109-d-10-a Acquired: 12/28/2011 19:24:35 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00686**	**.00224**	**.01399**	**.00756**	**-.00002**	**-.00083**	**20.043**	**.00016**	**-.00001**
Stddev	.00006	.00014	.00255	.00059	.00009	.00001	.00070	.046	.00006	.00010
%RSD	39.167	2.0513	113.92	4.2171	1.1917	88.164	84.669	.22937	34.564	931.63
#1	-.00011	-.00676	.00404	.01357	.00749	-.00001	-.00132	20.010	.00012	.00006
#2	-.00019	-.00696	.00043	.01440	.00762	-.00003	-.00033	20.075	.00021	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00044**	**.01955**	**.59639**	**.00226**	**6.7408**	**.00054**	**.03733**	**4.8414**	**.00145**
Stddev	.00011	.00014	.00089	.01111	.00041	.0336	.00000	.00031	.0197	.00022
%RSD	96.486	31.909	4.5396	1.8622	18.085	.49820	.41278	.83652	.40764	14.861
#1	-.00004	.00034	.01892	.60424	.00255	6.7170	.00054	.03711	4.8275	.00160
#2	-.00019	.00054	.02017	.58853	.00197	6.7645	.00054	.03755	4.8554	.00130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01144**	**-.00007**	**2.4895**	**-.00056**	**.00008**	**5.5099**	**.00016**	**.08784**	**.00094**	**.00026**
Stddev	.00015	.00121	.0015	.00048	.00424	.0286	.00049	.00015	.00133	.00010
%RSD	1.3474	1689.3	.06063	85.172	5013.2	.51885	315.68	.17586	142.38	40.606
#1	.01155	.00078	2.4885	-.00022	-.00291	5.5301	.00051	.08795	-.00001	.00018
#2	.01133	-.00092	2.4906	-.00089	.00308	5.4896	-.00019	.08773	.00188	.00033
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00400**	**.00007**	**.00319**	**.00088**
Stddev	.00099	.01538	.00049	.00016	.00131
%RSD	226.44	384.80	660.59	4.9139	148.26
#1	.00026	.01487	.00042	.00308	.00181
#2	-.00113	-.00688	-.00027	.00330	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5565.7**	**72394.**	**5098.4**
Stddev	.9	378.	7.8
%RSD	.01591	.52225	.15231
#1	5566.3	72661.	5092.9
#2	5565.0	72126.	5103.9

Sample Name: 280-24109-d-11-a Acquired: 12/28/2011 19:27:08 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.50099**	**.00307**	**.01531**	**.02841**	**-.00006**	**-.00268**	**42.618**	**.00017**	**.00010**
Stddev	.00003	.00342	.00081	.00030	.00017	.00007	.00077	.046	.00008	.00015
%RSD	13.443	.68293	26.239	1.9444	.60939	119.90	28.902	.10775	49.072	153.48
#1	.00023	.49857	.00364	.01552	.02853	-.00011	-.00322	42.585	.00023	.00021
#2	.00019	.50341	.00250	.01510	.02828	-.00001	-.00213	42.650	.00011	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00142**	**.00189**	**.28899**	**.60542**	**.00317**	**8.5129**	**.03843**	**.00467**	**5.0745**	**.00133**
Stddev	.00009	.00013	.00214	.00252	.00109	.0040	.00001	.00020	.0090	.00016
%RSD	6.2449	7.0214	.73882	.41637	34.454	.04736	.03864	4.2762	.17799	12.377
#1	.00148	.00198	.29050	.60364	.00239	8.5157	.03842	.00481	5.0681	.00121
#2	.00136	.00180	.28748	.60720	.00394	8.5100	.03845	.00453	5.0809	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18086**	**.00123**	**1.5689**	**.00129**	**.00128**	**4.9568**	**.00055**	**.09095**	**.00100**	**.01123**
Stddev	.00225	.00114	.0037	.00063	.00165	.0183	.00004	.00033	.00024	.00027
%RSD	1.2431	93.127	.23480	48.857	129.23	.36875	7.8997	.35827	23.683	2.4325
#1	.17927	.00042	1.5663	.00174	.00011	4.9697	.00058	.09072	.00083	.01103
#2	.18245	.00204	1.5715	.00085	.00244	4.9438	.00052	.09119	.00117	.01142
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00490**	**.00126**	**.01441**	**.00100**
Stddev	.00000	.00105	.00011	.00041	.00066
%RSD	2.2802	21.406	8.3339	2.8788	66.313
#1	.00007	.00564	.00119	.01412	.00053
#2	.00007	.00416	.00134	.01471	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5541.1**	**71750.**	**5121.6**
Stddev	6.4	112.	4.0
%RSD	.11621	.15601	.07790
#1	5536.6	71829.	5124.5
#2	5545.7	71671.	5118.8

Sample Name: 280-24109-d-12-a Acquired: 12/28/2011 19:29:34 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.11450**	**.00223**	**.01592**	**.01091**	**.00000**	**-.00268**	**15.312**	**.00022**	**-.00009**
Stddev	.00053	.00110	.00068	.00043	.00042	.0000	.00033	.068	.00004	.00015
%RSD	1246.7	.96323	30.305	2.7135	3.8924	890.22	12.421	.44224	17.984	162.69
#1	.00033	.11528	.00271	.01622	.01121	.00001	-.00245	15.264	.00025	.00001
#2	-.00042	.11372	.00175	.01561	.01061	-.00002	-.00292	15.360	.00019	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00142**	**.00154**	**.08644**	**1.0786**	**.00254**	**6.4412**	**.00053**	**.00139**	**18.536**	**.00034**
Stddev	.00009	.00005	.00152	.0129	.00271	.0342	.00002	.00002	.255	.00001
%RSD	6.5145	3.1389	1.7611	1.1967	106.50	.53076	4.5232	1.7080	1.3754	3.7175
#1	.00149	.00157	.08536	1.0877	.00063	6.4171	.00055	.00141	18.356	.00035
#2	.00136	.00150	.08752	1.0695	.00445	6.4654	.00052	.00137	18.717	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08292**	**-.00060**	**1.6014**	**.00022**	**-.00072**	**7.2553**	**-.00003**	**.06473**	**.00103**	**.00539**
Stddev	.00207	.00052	.0048	.00013	.00063	.0306	.00030	.00005	.00164	.00160
%RSD	2.4924	87.095	.30098	59.397	87.680	.42130	888.51	.07612	159.63	29.622
#1	.08439	-.00097	1.6048	.00013	-.00027	7.2337	-.00025	.06470	.00218	.00426
#2	.08146	-.00023	1.5980	.00031	-.00117	7.2769	.00018	.06477	-.00013	.00652
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**-.00373**	**.00206**	**.00384**	**.00060**
Stddev	.00003	.00839	.00017	.00001	.00111
%RSD	8.6147	224.83	8.1163	.35310	186.19
#1	-.00034	-.00967	.00194	.00383	.00138
#2	-.00030	.00220	.00217	.00385	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5537.7**	**72044.**	**5115.2**
Stddev	10.3	373.	16.2
%RSD	.18589	.51758	.31682
#1	5530.4	72307.	5126.7
#2	5544.9	71780.	5103.7

Sample Name: 280-24109-d-13-a Acquired: 12/28/2011 19:32:04 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.93714**	**.00159**	**.01093**	**.01141**	**-.00001**	**-.00170**	**16.050**	**.00014**	**.00004**
Stddev	.00007	.00701	.00161	.00017	.00005	.00006	.00063	.109	.00009	.00020
%RSD	37.277	.74779	101.17	1.5728	.47536	999.69	37.424	.68112	68.599	476.66
#1	.00014	.93219	.00045	.01081	.01145	.00003	-.00125	15.973	.00007	.00019
#2	.00024	.94210	.00273	.01105	.01138	-.00004	-.00215	16.127	.00020	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00227**	**.00046**	**.29134**	**.48808**	**.00641**	**5.8852**	**.00312**	**.00117**	**4.5951**	**.00063**
Stddev	.00000	.00024	.00280	.03550	.00226	.0074	.00000	.00009	.0223	.00009
%RSD	.20150	53.167	.96273	7.2743	35.301	.12629	.15939	7.8849	.48532	14.985
#1	.00227	.00063	.28936	.46297	.00801	5.8799	.00312	.00111	4.5793	.00057
#2	.00226	.00028	.29332	.51318	.00481	5.8904	.00313	.00124	4.6109	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26292**	**-.00029**	**1.0248**	**-.00007**	**.00196**	**4.2675**	**-.00041**	**.05230**	**.00047**	**.02239**
Stddev	.00023	.00050	.0040	.00149	.00023	.0376	.00042	.00016	.00031	.00012
%RSD	.08738	172.27	.39312	2092.1	11.734	.88030	101.48	.29875	66.660	.51407
#1	.26276	.00006	1.0219	.00098	.00212	4.2409	-.00012	.05219	.00025	.02247
#2	.26308	-.00064	1.0276	-.00112	.00180	4.2941	-.00071	.05241	.00069	.02231
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00100**	**.02588**	**.00286**	**.00426**	**.00119**
Stddev	.00015	.01696	.00033	.00006	.00079
%RSD	14.826	65.535	11.506	1.3457	66.173
#1	-.00089	.01389	.00309	.00422	.00063
#2	-.00110	.03787	.00263	.00430	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5581.0**	**72535.**	**5124.7**
Stddev	5.4	212.	8.2
%RSD	.09668	.29217	.15927
#1	5584.8	72386.	5130.4
#2	5577.2	72685.	5118.9

Sample Name: 280-24109-d-14-a Acquired: 12/28/2011 19:34:35 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101350 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**1.3049**	**.00205**	**.01155**	**.01346**	**-.00004**	**-.00500**	**.91202**	**.00013**	**.00009**
Stddev	.00043	.0148	.00042	.00002	.00045	.00002	.00259	.00256	.00013	.00016
%RSD	419.55	1.1341	20.609	.17603	3.3400	62.595	51.883	.28072	96.980	181.55
#1	.00041	1.2944	.00175	.01156	.01314	-.00005	-.00683	.91383	.00004	.00020
#2	-.00020	1.3154	.00234	.01153	.01378	-.00002	-.00316	.91021	.00023	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.00046**	**.26395**	**.31064**	**.00454**	**.91945**	**.00357**	**.00001**	**3.0712**	**.00048**
Stddev	.00000	.00036	.00022	.03588	.00266	.00022	.00002	.00003	.0073	.00014
%RSD	.08319	78.214	.08508	11.550	58.629	.02355	.58620	459.80	.23927	29.195
#1	.00208	.00072	.26410	.28527	.00266	.91960	.00359	-.00001	3.0660	.00058
#2	.00208	.00021	.26379	.33601	.00642	.91930	.00356	.00003	3.0764	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04256**	**.00026**	**.30320**	**-.00046**	**-.00126**	**3.9846**	**-.00026**	**.02380**	**.00084**	**.02699**
Stddev	.00054	.00043	.00225	.00189	.00312	.0142	.00030	.00000	.00033	.00052
%RSD	1.2629	163.52	.74278	408.29	247.99	.35552	114.75	.00003	39.492	1.9088
#1	.04294	.00057	.30479	.00088	-.00346	3.9946	-.00005	.02380	.00061	.02735
#2	.04218	-.00004	.30160	-.00180	.00095	3.9746	-.00047	.02380	.00108	.02662
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00655**	**.00065**	**.00524**	**.00107**
Stddev	.00096	.00100	.00001	.00027	.00056
%RSD	1428.5	15.258	2.1495	5.1713	52.379
#1	.00075	.00584	.00064	.00544	.00067
#2	-.00061	.00725	.00066	.00505	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5624.5**	**73164.**	**5142.8**
Stddev	7.2	202.	23.0
%RSD	.12821	.27559	.44691
#1	5619.4	73307.	5159.0
#2	5629.6	73021.	5126.5

Sample Name: CCVH-1190977 Acquired: 12/28/2011 19:37:06 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00403**	**49.626**	**-.00136**	**.00219**	**.00019**	**.00000**	**1.0262**	**.01199**	**-.00150**	**.00228**	**-.00006**	**-.00269**	**49.320**
Stddev	.00007	.162	.00093	.00032	.00002	.00002	.0039	.00184	.00004	.00023	.00012	.00006	.230
%RSD	1.7908	.32640	68.568	14.639	10.522	371.74	.38046	15.352	2.6268	9.8845	217.73	2.3021	.46630
#1	.00398	49.511	-.00202	.00241	.00017	-.00001	1.0235	.01069	-.00147	.00244	.00003	-.00264	49.157
#2	.00408	49.740	-.00070	.00196	.00020	.00002	1.0290	.01329	-.00153	.00212	-.00014	-.00273	49.483
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02586**	**.00411**	**.02770**	**-.00073**	**-.00133**	**251.82**	**.00157**	**.00326**	**-.00008**	**5.2968**	**-.00417**	**.00012**	**-.01003**
Stddev	.02289	.00263	.00099	.00001	.00002	.67	.00005	.00076	.00035	.0045	.00257	.00070	.00381
%RSD	88.535	64.055	3.5673	.70702	1.2333	.26561	3.0065	23.341	447.31	.08580	61.677	572.37	38.044
#1	.00967	.00597	.02700	-.00074	-.00135	251.35	.00154	.00272	-.00033	5.2936	-.00599	.00062	-.00733
#2	.04204	.00225	.02840	-.00073	-.00132	252.29	.00161	.00380	.00017	5.3000	-.00235	-.00037	-.01272
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00115**	**.00044**	**5.0358**	**-.02383**	**.00175**	**10.293**	**.00494**	**.00241**	**-.11127**
Stddev	.00069	.00005	.0234	.00008	.00002	.054	.00038	.00013	.00037
%RSD	60.011	11.247	.46511	.34023	1.4245	.52625	7.6945	5.5828	.33630
#1	.00066	.00047	5.0192	-.02377	.00177	10.254	.00520	.00231	-.11153
#2	.00164	.00040	5.0524	-.02388	.00174	10.331	.00467	.00250	-.11100
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5416.7**	**69119.**	**5023.5**
Stddev	11.1	212.	15.6
%RSD	.20547	.30689	.31149
#1	5408.8	69269.	5034.5
#2	5424.6	68969.	5012.4

Sample Name: CCV-1190978 Acquired: 12/28/2011 19:39:33 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51539**	**.49965**	**.99877**	**.50600**	**.50520**	**.48471**	**-.00083**	**5.0094**	**.50755**	**.51159**	**.50928**	**.49894**	**2.4573**
Stddev	.00257	.00312	.00281	.00159	.00203	.00248	.00108	.0281	.00109	.00129	.00099	.00276	.0159
%RSD	.49874	.62474	.28137	.31478	.40240	.51096	130.02	.56163	.21401	.25187	.19366	.55354	.64685
#1	.51721	.49744	.99678	.50488	.50664	.48646	-.00007	5.0293	.50678	.51068	.50858	.50090	2.4685
#2	.51357	.50186	1.0008	.50713	.50376	.48296	-.00160	4.9895	.50832	.51250	.50997	.49699	2.4461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.272**	**1.0104**	**19.812**	**.49385**	**.50255**	**5.0959**	**.50729**	**.99689**	**1.0160**	**.00525**	**.99547**	**.98827**	**4.8350**
Stddev	.227	.0029	.104	.00148	.00038	.0212	.00062	.00376	.0029	.00013	.00233	.00164	.0204
%RSD	.46014	.28694	.52433	.29911	.07650	.41645	.12245	.37746	.28774	2.5036	.23420	.16628	.42144
#1	49.433	1.0124	19.885	.49489	.50228	5.1109	.50685	.99423	1.0140	.00534	.99712	.98711	4.8494
#2	49.112	1.0083	19.738	.49280	.50282	5.0809	.50773	.99955	1.0181	.00516	.99382	.98943	4.8206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99309**	**.49281**	**-.00691**	**.50250**	**1.0406**	**.01542**	**.50696**	**.49466**	**.49768**
Stddev	.00577	.00193	.00136	.00200	.0010	.00228	.00187	.00270	.00088
%RSD	.58140	.39120	19.697	.39833	.09956	14.775	.36920	.54631	.17644
#1	.98900	.49418	-.00595	.50392	1.0399	.01703	.50828	.49657	.49706
#2	.99717	.49145	-.00787	.50109	1.0413	.01381	.50563	.49275	.49830
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5515.7**	**71036.**	**5057.9**
Stddev	13.0	165.	33.4
%RSD	.23647	.23183	.65952
#1	5525.0	70919.	5034.3
#2	5506.5	71152.	5081.5

Sample Name: CCB Acquired: 12/28/2011 19:41:52 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	W **-.02432**	**.00045**	**.00153**	**-.00010**	**.00001**	**-.00131**	**-.00231**	**.00017**	**-.00013**
Stddev	.00003	.00018	.00070	.00023	.00003	.00000	.00010	.00108	.00002	.00003
%RSD	4.1125	.72384	152.81	15.100	29.256	22.994	7.5389	46.645	13.975	21.377
#1	.00078	-.02420	.00095	.00170	-.00013	.00001	-.00124	-.00155	.00015	-.00015
#2	.00074	-.02445	-.00004	.00137	-.00008	.00001	-.00138	-.00308	.00019	-.00011
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800								
Low Limit		-.01800								

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00031**	**-.00013**	**.02906**	W **.00359**	**.00173**	**-.00015**	**.00034**	F **.10134**	**.00006**
Stddev	.00001	.00022	.00029	.01828	.00082	.00147	.00005	.00005	.00300	.00013
%RSD	5.8577	71.987	227.66	62.904	22.901	84.997	34.607	14.297	2.9652	210.39
#1	.00026	-.00047	-.00033	.01613	.00417	.00069	-.00019	.00037	.10346	-.00003
#2	.00024	-.00015	.00008	.04199	.00301	.00276	-.00012	.00030	.09921	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					.00261				.10000	
Low Limit					-.00261				-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00315**	**-.00021**	**.00199**	W **.00587**	**.00098**	**-.01013**	**.00008**	**.00022**	**.00008**	**-.00031**
Stddev	.00042	.00045	.00086	.00112	.00135	.00714	.00010	.00001	.00024	.00021
%RSD	13.471	212.54	43.525	19.163	137.82	70.443	113.63	5.8865	290.93	68.711
#1	-.00345	.00011	.00260	.00666	.00194	-.01518	.00015	.00021	.00025	-.00016
#2	-.00285	-.00053	.00137	.00507	.00003	-.00508	.00002	.00023	-.00009	-.00045
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00314						
Low Limit				-.00314						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.00038**	**-.00013**	**.00124**	**.00083**
Stddev	.00128	.00791	.00006	.00000	.00177
%RSD	162.12	2098.9	46.220	.09629	212.00
#1	-.00169	-.00522	-.00008	.00124	.00209
#2	.00012	.00597	-.00017	.00124	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5477.2**	**71838.**	**5013.8**
Stddev	7.0	284.	10.9
%RSD	.12812	.39546	.21678
#1	5472.3	71637.	5021.5
#2	5482.2	72039.	5006.2

Sample Name: CCVL1192076 Acquired: 12/28/2011 19:44:26 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01081**	**.08399**	**.01685**	**.10270**	**.00998**	**.00099**	W **.12033**	**.19622**	**.00509**	**.01072**	**.01007**
Stddev	.00032	.00121	.00085	.00012	.00019	.00009	.00099	.00010	.00007	.00004	.00006
%RSD	2.9452	1.4445	5.0731	.11247	1.9074	9.4723	.82304	.05048	1.3630	.33339	.61892
#1	.01103	.08313	.01624	.10262	.00985	.00105	.11963	.19615	.00504	.01070	.01002
#2	.01058	.08484	.01745	.10278	.01012	.00092	.12103	.19629	.00514	.01075	.01011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							.10000				
Range							20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01537**	**.09556**	**2.9020**	F **.01388**	**.20817**	**.00989**	**.01958**	**1.0711**	**.04196**	**2.9212**	**.00978**
Stddev	.00028	.00101	.0657	.00125	.00011	.00002	.00010	.0143	.00032	.0062	.00052
%RSD	1.8128	1.0600	2.2635	9.0346	.05055	.22758	.51341	1.3381	.75975	.21366	5.2764
#1	.01557	.09484	2.9485	.01300	.20809	.00991	.01965	1.0812	.04173	2.9168	.00941
#2	.01518	.09628	2.8556	.01477	.20824	.00988	.01951	1.0610	.04218	2.9256	.01014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				30.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00226**	**.01040**	**.01369**	**.46628**	**.09875**	**.01012**	**.01366**	**.01003**	**.01596**	**.06778**	**.00986**
Stddev	.00084	.00151	.00109	.00598	.00078	.00008	.00004	.00008	.00054	.00235	.00014
%RSD	37.087	14.554	7.9395	1.2819	.79062	.81981	.30181	.82968	3.3672	3.4632	1.4049
#1	.00285	.01147	.01292	.46205	.09819	.01006	.01363	.00997	.01634	.06612	.00996
#2	.00167	.00933	.01446	.47051	.09930	.01018	.01369	.01009	.01558	.06943	.00976
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02210**	**.01758**
Stddev	.00022	.00102
%RSD	.99788	5.8058
#1	.02195	.01686
#2	.02226	.01830
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5626.5**	**72969.**	**5090.8**
Stddev	3.0	184.	13.5
%RSD	.05416	.25166	.26497
#1	5628.7	72840.	5100.3
#2	5624.4	73099.	5081.3

Sample Name: MB 280-101347/1-A Acquired: 12/28/2011 19:46:57 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.02229**	**.00329**	**.00256**	**.00021**	**-.00004**	**-.00104**	**.00449**	**-.00006**	**-.00016**
Stddev	.00021	.00030	.00162	.00029	.00017	.00010	.00137	.00001	.00007	.00009
%RSD	90.341	1.3382	49.189	11.452	82.130	252.00	131.64	.23595	109.59	54.333
#1	.00008	-.02207	.00444	.00277	.00009	.00003	-.00007	.00450	-.00001	-.00022
#2	.00037	-.02250	.00215	.00236	.00033	-.00011	-.00201	.00449	-.00011	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00018**	**.00220**	**-.01806**	**.00032**	**.00154**	**-.00009**	**-.00004**	**.08708**	**.00016**
Stddev	.00008	.00037	.00075	.00999	.00112	.00025	.00004	.00001	.00732	.00004
%RSD	35.190	203.31	34.124	55.338	353.29	16.586	46.259	37.002	8.4032	22.446
#1	-.00029	-.00008	.00167	-.02512	.00111	.00172	-.00006	-.00005	.08191	.00018
#2	-.00017	.00044	.00273	-.01099	-.00047	.00136	-.00011	-.00003	.09226	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**-.00086**	**.00631**	**-.00053**	**-.00122**	**.00555**	**-.00035**	**.00019**	**-.00057**	**.00013**
Stddev	.00082	.00016	.00154	.00062	.00203	.00141	.00005	.00010	.00016	.00017
%RSD	106.78	18.707	24.408	118.59	166.33	25.348	15.566	55.984	28.188	125.79
#1	.00135	-.00074	.00522	-.00097	-.00266	.00456	-.00039	.00011	-.00068	.00001
#2	.00019	-.00097	.00740	-.00009	.00022	.00655	-.00031	.00026	-.00045	.00025
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00155**	**.01933**	**.00012**	**.00266**	**.00097**
Stddev	.00071	.00144	.00009	.00007	.00051
%RSD	46.001	7.4386	76.922	2.6161	52.083
#1	-.00104	.01831	.00018	.00261	.00133
#2	-.00205	.02034	.00005	.00271	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5571.1**	**72835.**	**5099.5**
Stddev	1.6	395.	10.1
%RSD	.02916	.54300	.19789
#1	5572.3	73115.	5106.6
#2	5570.0	72555.	5092.3

Sample Name: LCS 280-101347/2-A Acquired: 12/28/2011 19:49:29 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05466**	**1.9195**	**.99273**	**.99707**	**2.0111**	**.04837**	**2.1594**	**48.810**	**.09636**	**.49672**
Stddev	.00045	.0047	.00473	.00391	.0067	.00001	.0012	.197	.00003	.00096
%RSD	.82387	.24599	.47612	.39247	.33250	.01135	.05559	.40293	.03151	.19302
#1	.05498	1.9161	.98939	.99430	2.0158	.04837	2.1585	48.949	.09633	.49604
#2	.05434	1.9228	.99608	.99984	2.0064	.04836	2.1602	48.671	.09638	.49739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20209**	**.24702**	**.97143**	**49.660**	**1.0117**	**47.955**	**.49412**	**1.0066**	**50.659**	**.49602**
Stddev	.00035	.00115	.00306	.267	.0053	.276	.00250	.0022	.287	.00067
%RSD	.17302	.46418	.31541	.53864	.52351	.57582	.50536	.21463	.56669	.13481
#1	.20184	.24783	.97359	49.849	1.0154	48.151	.49589	1.0050	50.862	.49555
#2	.20234	.24621	.96926	49.471	1.0079	47.760	.49236	1.0081	50.456	.49649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.093**	**.50025**	**.00800**	**.49991**	**1.9266**	**9.7118**	**1.9495**	**.98669**	**1.0026**	**1.0202**
Stddev	.025	.00159	.00170	.00437	.0063	.0337	.0039	.00452	.0087	.0067
%RSD	.24725	.31860	21.240	.87462	.32531	.34664	.19835	.45784	.86864	.66175
#1	10.075	.49912	.00920	.49682	1.9222	9.7356	1.9468	.98989	1.0088	1.0250
#2	10.110	.50137	.00680	.50301	1.9310	9.6879	1.9523	.98350	.99647	1.0154
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9875**	**2.1071**	**.51742**	**.48372**	**.48066**
Stddev	.0023	.0020	.00194	.00226	.00015
%RSD	.11431	.09518	.37515	.46706	.03191
#1	1.9859	2.1057	.51879	.48531	.48077
#2	1.9891	2.1086	.51605	.48212	.48055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5347.8**	**69018.**	**5065.3**
Stddev	7.7	472.	28.0
%RSD	.14456	.68353	.55229
#1	5353.2	68684.	5045.5
#2	5342.3	69352.	5085.1

Sample Name: 280-24091-A-1-D Acquired: 12/28/2011 19:51:45 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**7.8678**	**.01111**	**45.668**	**1.7717**	**.00025**	W **-.01203**	W **692.46**	**.00187**	**.02413**
Stddev	.00048	.0276	.00042	.040	.0030	.00005	.00440	5.62	.00006	.00004
%RSD	1114.5	.35041	3.7891	.08719	.16919	21.026	36.613	.81114	3.4603	.17747
#1	-.00030	7.8483	.01081	45.696	1.7696	.00029	-.01514	688.49	.00191	.02410
#2	.00038	7.8873	.01141	45.640	1.7738	.00021	-.00891	696.43	.00182	.02416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass
High Limit							3.0000	500.00		
Low Limit							-.01000	-.05000		

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04357**	**.23537**	**71.652**	F **913.03**	**.22558**	**10.626**	**1.9425**	**.02179**	W **2165.4**	**.12299**
Stddev	.00012	.00118	.024	1.45	.00057	.049	.0095	.00017	2.0	.00018
%RSD	.28200	.49995	.03362	.15897	.25316	.46240	.49161	.77096	.09046	.14971
#1	.04365	.23454	71.669	914.05	.22599	10.591	1.9358	.02167	2164.0	.12312
#2	.04348	.23620	71.635	912.00	.22518	10.661	1.9493	.02191	2166.8	.12286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit				500.00					500.00	
Low Limit				-2.0000					10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **243.92**	**.15266**	**507.06**	**.00648**	**.05948**	**35.701**	**.00941**	**5.1970**	**-.00245**	**.23635**
Stddev	.40	.00081	.69	.00021	.00252	.164	.00087	.0115	.00070	.00132
%RSD	.16221	.53035	.13652	3.1814	4.2341	.45981	9.2973	.22141	28.466	.55726
#1	244.20	.15323	507.55	.00634	.06126	35.585	.00879	5.1889	-.00195	.23542
#2	243.64	.15208	506.57	.00663	.05770	35.817	.01003	5.2051	-.00294	.23728
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	50.000									
Low Limit	-2.0000									

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	W **-.01160**	**.03930**	**.16112**	**2.6691**	**.01344**
Stddev	.00241	.00849	.00054	.0186	.00121
%RSD	20.782	21.614	.33295	.69641	8.9688
#1	-.01330	.03329	.16074	2.6559	.01259
#2	-.00989	.04530	.16150	2.6822	.01429
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	5.0000				
Low Limit	-.01000				

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4610.0**	**58018.**	**4914.5**
Stddev	10.2	411.	13.0
%RSD	.22022	.70881	.26480
#1	4602.8	58309.	4923.7
#2	4617.1	57727.	4905.3

Sample Name: sd 280-24091-A-1-D@5 Acquired: 12/28/2011 19:55:02 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**1.4245**	**.00191**	**9.8519**	**.34697**	**-.00002**	**-.00267**	**142.94**	**.00047**	**.00502**
Stddev	.00034	.0010	.00072	.0073	.00000	.00011	.00045	.07	.00007	.00022
%RSD	456.19	.06785	37.379	.07457	.00078	607.58	17.001	.04892	14.527	4.4284
#1	-.00017	1.4238	.00141	9.8467	.34697	.00006	-.00299	142.89	.00042	.00486
#2	.00032	1.4251	.00242	9.8571	.34697	-.00010	-.00235	142.99	.00052	.00518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00876**	**.04794**	**14.157**	W **182.72**	**.04543**	**2.2909**	**.37878**	**.00429**	**415.97**	**.02533**
Stddev	.00001	.00012	.010	.17	.00341	.0013	.00028	.00016	.19	.00001
%RSD	.15469	.24058	.06786	.09476	7.4994	.05584	.07308	3.6848	.04621	.02834
#1	.00877	.04802	14.164	182.60	.04302	2.2900	.37859	.00440	416.11	.02532
#2	.00875	.04786	14.150	182.84	.04784	2.2918	.37898	.00417	415.83	.02533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				100.00						
Low Limit				-.50000						

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **53.173**	**.03256**	**103.71**	**.00279**	**.01293**	**6.8159**	**.00182**	**1.0155**	**.00008**	**.04546**
Stddev	.055	.00102	.14	.00096	.00254	.0080	.00022	.0007	.00035	.00031
%RSD	.10340	3.1209	.13530	34.171	19.679	.11672	12.063	.06748	430.33	.67352
#1	53.134	.03184	103.61	.00212	.01113	6.8216	.00198	1.0150	.00033	.04568
#2	53.212	.03328	103.81	.00347	.01473	6.8103	.00167	1.0159	-.00016	.04525
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	50.000									
Low Limit	-2.0000									

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00384**	**.02695**	**.03127**	**.52735**	**.00209**
Stddev	.00039	.02021	.00046	.00070	.00099
%RSD	10.144	74.997	1.4836	.13254	47.357
#1	-.00411	.01266	.03094	.52685	.00279
#2	-.00356	.04124	.03160	.52784	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5182.0**	**66214.**	**5172.1**
Stddev	4.5	53.	3.0
%RSD	.08623	.07970	.05791
#1	5178.9	66176.	5170.0
#2	5185.2	66251.	5174.2

Sample Name: 280-24091-A-1-E MS Acquired: 12/28/2011 19:57:35 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06100**	**12.134**	**1.0876**	**46.965**	**3.7589**	**.04723**	**2.1291**	W **750.19**	**.10371**	**.48899**
Stddev	.00076	.010	.0050	.064	.0052	.00003	.0007	10.01	.00031	.00107
%RSD	1.2430	.08169	.46347	.13698	.13696	.06212	.03341	1.3340	.29944	.21931
#1	.06046	12.127	1.0840	47.010	3.7625	.04725	2.1297	743.11	.10393	.48975
#2	.06154	12.141	1.0912	46.919	3.7552	.04721	2.1286	757.26	.10349	.48823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								500.00		
Low Limit								-.05000		

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23898**	**.47174**	**73.718**	F **939.27**	**1.3341**	**53.460**	**2.4473**	**.96937**	W **2251.5**	**.58132**
Stddev	.00084	.00061	.075	5.26	.0015	.057	.0035	.00227	2.8	.00065
%RSD	.35340	.12953	.10164	.55963	.11448	.10697	.14315	.23447	.12492	.11181
#1	.23958	.47131	73.771	942.99	1.3330	53.419	2.4448	.97097	2253.5	.58178
#2	.23839	.47217	73.665	935.55	1.3351	53.500	2.4498	.96776	2249.5	.58087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit				500.00					500.00	
Low Limit				-2.0000					10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **253.01**	**.58824**	**511.25**	**.50076**	**1.4376**	**47.455**	**1.7484**	**6.1591**	**.72225**	**1.2575**
Stddev	.33	.00139	.94	.00211	.0015	.087	.0020	.0399	.00068	.0027
%RSD	.13066	.23554	.18308	.42187	.10772	.18413	.11225	.64754	.09444	.21387
#1	253.24	.58922	511.92	.49926	1.4365	47.394	1.7498	6.1309	.72177	1.2556
#2	252.77	.58726	510.59	.50225	1.4387	47.517	1.7470	6.1873	.72274	1.2594
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	50.000									
Low Limit	-2.0000									

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.62972**	**2.0879**	**.68956**	**3.1406**	**.42705**
Stddev	.00025	.0046	.00141	.0071	.00068
%RSD	.03983	.22137	.20378	.22626	.15870
#1	.62990	2.0847	.68856	3.1356	.42753
#2	.62954	2.0912	.69055	3.1457	.42657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4630.7**	**58124.**	**4949.5**
Stddev	.8	52.	4.6
%RSD	.01708	.08932	.09234
#1	4630.2	58160.	4952.7
#2	4631.3	58087.	4946.3

Sample Name: 280-24091-A-1-F MSD Acquired: 12/28/2011 20:00:50 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06039**	**11.580**	**1.0782**	**47.160**	**3.6811**	**.04657**	**2.1105**	W **738.48**	**.10255**	**.48352**
Stddev	.00025	.020	.0024	.138	.0113	.00020	.0081	19.30	.00023	.00175
%RSD	.40608	.17459	.22126	.29209	.30613	.43457	.38544	2.6141	.22481	.36142
#1	.06056	11.566	1.0799	47.257	3.6732	.04643	2.1162	724.82	.10272	.48475
#2	.06022	11.595	1.0766	47.062	3.6891	.04671	2.1047	752.13	.10239	.48228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								500.00		
Low Limit								-.05000		

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23524**	**.45156**	**73.320**	F **907.18**	**1.3187**	**52.653**	**2.4209**	**.96093**	W **2239.2**	**.57571**
Stddev	.00150	.00100	.411	3.34	.0036	.202	.0106	.00499	4.2	.00302
%RSD	.63908	.22208	.56036	.36836	.26942	.38458	.43899	.51928	.18678	.52423
#1	.23630	.45227	73.029	904.82	1.3162	52.796	2.4284	.96445	2236.2	.57785
#2	.23418	.45085	73.610	909.54	1.3213	52.510	2.4134	.95740	2242.2	.57358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit				500.00					500.00	
Low Limit				-2.0000					10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **251.50**	**.58135**	**506.58**	**.50811**	**1.1404**	**46.783**	**1.7299**	**6.1166**	**.67877**	**1.2401**
Stddev	.89	.00176	1.55	.00493	.0037	.357	.0060	.0419	.00332	.0052
%RSD	.35196	.30285	.30651	.97100	.32040	.76290	.34566	.68521	.48932	.41597
#1	252.12	.58259	507.68	.51160	1.1379	46.530	1.7342	6.0870	.68112	1.2438
#2	250.87	.58010	505.48	.50462	1.1430	47.035	1.7257	6.1463	.67642	1.2365
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	50.000									
Low Limit	-2.0000									

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.71007**	**2.0838**	**.68051**	**3.0865**	**.44366**
Stddev	.00456	.0174	.00259	.0134	.00081
%RSD	.64196	.83616	.38008	.43351	.18350
#1	.71330	2.0961	.68233	3.0960	.44308
#2	.70685	2.0714	.67868	3.0771	.44423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4621.4**	**58105.**	**4982.1**
Stddev	6.7	163.	54.9
%RSD	.14504	.28038	1.1016
#1	4616.7	57989.	5021.0
#2	4626.1	58220.	4943.3

Sample Name: 280-24091-A-2-B Acquired: 12/28/2011 20:04:03 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.01277**	**.00771**	**.36993**	**.03106**	**-.00003**	**-.00517**	**28.849**	**.00011**	**-.00007**
Stddev	.00001	.00014	.00066	.01288	.00019	.00000	.00331	.010	.00004	.00003
%RSD	1.6079	1.0667	8.5095	3.4820	.61996	13.650	63.887	.03334	35.572	48.261
#1	.00056	.01267	.00817	.37904	.03093	-.00003	-.00284	28.855	.00008	-.00010
#2	.00058	.01287	.00724	.36083	.03120	-.00004	-.00751	28.842	.00014	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**.00395**	**.06893**	**2.4021**	**.01167**	**1.1758**	**.00281**	**.00335**	**89.396**	**.00073**
Stddev	.00006	.00022	.00008	.1121	.00213	.0000	.00004	.00010	.386	.00006
%RSD	4.8672	5.6635	.12174	4.6645	18.254	.00066	1.2482	2.8414	.43195	7.6700
#1	.00126	.00411	.06888	2.4813	.01317	1.1758	.00284	.00329	89.669	.00069
#2	.00135	.00379	.06899	2.3228	.01016	1.1758	.00279	.00342	89.123	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.9426**	**-.00015**	**14.677**	**.00038**	**.00184**	**11.195**	**.00013**	**.26260**	**.00100**	**.00142**
Stddev	.0300	.00033	.043	.00153	.00080	.003	.00038	.00053	.00088	.00010
%RSD	.37759	225.88	.29185	401.60	43.238	.02638	288.05	.20015	87.637	7.3699
#1	7.9639	-.00038	14.708	.00146	.00128	11.197	-.00014	.26297	.00038	.00150
#2	7.9214	.00009	14.647	-.00070	.00241	11.193	.00041	.26223	.00162	.00135
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00750**	**.01324**	**.02617**	**.00149**
Stddev	.00008	.01656	.00007	.00023	.00227
%RSD	159.36	220.61	.53904	.87380	152.83
#1	.00011	-.01921	.01319	.02633	-.00012
#2	-.00001	.00420	.01329	.02600	.00310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5426.4**	**69941.**	**5113.2**
Stddev	4.4	266.	7.7
%RSD	.08117	.38031	.15151
#1	5429.5	69753.	5107.7
#2	5423.3	70129.	5118.7

Sample Name: 280-24091-A-3-B Acquired: 12/28/2011 20:06:30 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**.13844**	**.00933**	**.49147**	**.05373**	**.00021**	**-.00215**	**28.888**	**.00574**	**.00076**
Stddev	.00057	.00150	.00089	.00145	.00058	.00002	.00192	.102	.00047	.00010
%RSD	59.234	1.0847	9.5776	.29546	1.0767	8.5731	89.104	.35259	8.1855	12.825
#1	.00138	.13738	.00870	.49045	.05414	.00023	-.00351	28.960	.00540	.00069
#2	.00056	.13950	.00996	.49250	.05332	.00020	-.00080	28.816	.00607	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00566**	**.01827**	**.51550**	**16.409**	**.01957**	**2.4623**	**.01524**	**.01442**	W **5590.8**	**.00398**
Stddev	.00010	.00053	.00394	.631	.00036	.0075	.00005	.00010	19.4	.00037
%RSD	1.7214	2.8842	.76351	3.8479	1.8158	.30444	.29569	.67504	.34631	9.3105
#1	.00573	.01790	.51829	15.963	.01932	2.4570	.01521	.01436	5604.5	.00425
#2	.00559	.01864	.51272	16.855	.01982	2.4676	.01527	.01449	5577.1	.00372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **797.53**	**.00371**	**414.83**	**-.00233**	**.01385**	**11.415**	**.00173**	**.26004**	**-.00110**	**.04894**
Stddev	3.89	.00043	.60	.00215	.00514	.059	.00014	.00069	.00039	.00002
%RSD	.48739	11.513	.14468	92.093	37.143	.51607	8.2898	.26696	35.889	.04477
#1	800.28	.00341	414.40	-.00081	.01748	11.456	.00163	.26054	-.00138	.04896
#2	794.79	.00401	415.25	-.00385	.01021	11.373	.00183	.25955	-.00082	.04893
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	50.000									
Low Limit	-2.0000									

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00506**	**.05695**	**.01559**	**.09226**	**.00388**
Stddev	.00001	.02576	.00039	.00111	.00074
%RSD	.23947	45.222	2.4757	1.2051	19.172
#1	-.00507	.03874	.01586	.09147	.00335
#2	-.00505	.07517	.01531	.09304	.00440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4377.2**	**53725.**	**4796.6**
Stddev	13.6	242.	67.1
%RSD	.31065	.45101	1.3984
#1	4367.6	53896.	4749.1
#2	4386.8	53554.	4844.0

Sample Name: CCVH-1190977 Acquired: 12/28/2011 20:09:40 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00300**	**49.589**	**-.00076**	**.06032**	**.00066**	**.00006**	**1.0694**	**.01629**	**-.00140**	**.00224**	**-.00010**	**-.00243**	**48.992**
Stddev	.00020	.088	.00022	.00023	.00019	.00005	.0013	.00197	.00002	.00011	.00001	.00022	.073
%RSD	6.6883	.17794	29.435	.37438	28.927	78.087	.12517	12.071	1.1663	5.0412	9.4544	8.9022	.14946
#1	.00286	49.527	-.00092	.06016	.00079	.00003	1.0703	.01490	-.00141	.00216	-.00010	-.00227	48.940
#2	.00314	49.652	-.00060	.06048	.00052	.00009	1.0684	.01769	-.00139	.00232	-.00009	-.00258	49.043
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2402**	**.00529**	**.03397**	**-.00078**	**-.00116**	**253.48**	**.00148**	**.05817**	**.00011**	**5.7473**	**-.00429**	**.00092**	**.01119**
Stddev	.1201	.00273	.00030	.00002	.00008	.76	.00018	.00223	.00091	.0038	.00108	.00015	.00097
%RSD	9.6860	51.694	.88246	2.3853	6.4675	.29822	12.176	3.8359	823.14	.06577	25.236	16.628	8.6473
#1	1.3251	.00722	.03376	-.00077	-.00111	252.95	.00135	.05975	.00075	5.7446	-.00506	.00081	.01050
#2	1.1552	.00335	.03419	-.00080	-.00121	254.02	.00161	.05659	-.00053	5.7499	-.00353	.00102	.01187
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00099**	**.00049**	**5.1145**	**-.02361**	**.00166**	**10.471**	**.00503**	**.00264**	**-.11881**
Stddev	.00075	.00003	.0001	.00046	.00082	.028	.00006	.00007	.00261
%RSD	76.247	5.7982	.00107	1.9598	49.441	.26483	1.1318	2.6960	2.1993
#1	.00152	.00051	5.1145	-.02328	.00224	10.490	.00507	.00269	-.12066
#2	.00046	.00047	5.1145	-.02394	.00108	10.451	.00499	.00259	-.11697
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5455.9**	**70062.**	**5159.3**
Stddev	13.4	21.	12.4
%RSD	.24633	.03019	.23959
#1	5465.4	70076.	5168.0
#2	5446.4	70047.	5150.5

Sample Name: CCV-1190978 Acquired: 12/28/2011 20:12:10 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53881**	**.50899**	**1.0187**	F **.58141**	**.51032**	**.48418**	**-.00217**	**5.1679**	**.52615**	**.51823**	**.51466**	**.51881**
Stddev	.00032	.00444	.0056	.00033	.00152	.00192	.00159	.0127	.00004	.00021	.00076	.00118
%RSD	.05952	.87291	.55411	.05758	.29798	.39651	73.051	.24579	.00752	.03974	.14854	.22654
#1	.53904	.50585	1.0147	.58165	.50924	.48283	-.00329	5.1769	.52618	.51809	.51520	.51798
#2	.53859	.51213	1.0227	.58118	.51139	.48554	-.00105	5.1589	.52612	.51838	.51412	.51964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.50000								
Range				10.000%								

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.4724**	**49.541**	**1.0163**	**20.098**	**.49468**	**.50708**	F **6.7376**	**.50989**	**1.0714**	**1.0364**	**.13302**	**1.0386**
Stddev	.0018	.070	.0043	.003	.00016	.00088	.1160	.00073	.0082	.0017	.00672	.0005
%RSD	.07220	.14225	.41942	.01438	.03185	.17280	1.7216	.14310	.76931	.15910	5.0505	.04951
#1	2.4711	49.491	1.0132	20.096	.49479	.50770	6.8197	.51040	1.0655	1.0376	.12827	1.0382
#2	2.4737	49.591	1.0193	20.100	.49457	.50646	6.6556	.50937	1.0772	1.0353	.13777	1.0390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value							5.0000					
Range							10.000%					

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0335**	**4.8456**	**1.0037**	**.49355**	**-.00235**	**.50884**	**1.0753**	**-.00259**	**.51293**	**.49074**	**.49822**
Stddev	.0049	.0080	.0022	.00121	.00194	.00064	.0013	.01670	.00063	.00033	.00452
%RSD	.47450	.16541	.22388	.24444	82.362	.12516	.12184	644.84	.12309	.06731	.90771
#1	1.0370	4.8400	1.0053	.49270	-.00098	.50839	1.0763	-.01440	.51338	.49050	.49503
#2	1.0301	4.8513	1.0021	.49440	-.00372	.50929	1.0744	.00922	.51249	.49097	.50142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5496.7**	**71608.**	**5153.4**
Stddev	21.2	49.	1.6
%RSD	.38588	.06803	.03178
#1	5511.7	71574.	5152.2
#2	5481.7	71643.	5154.6

Sample Name: CCB Acquired: 12/28/2011 20:14:27 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	W **-.02091**	**.00206**	F **.05285**	**.00021**	**-.00003**	**-.00200**	**.03430**	**.00014**	**-.00003**	**.00012**
Stddev	.00044	.00058	.00007	.00107	.00016	.00005	.00128	.00301	.00015	.00004	.00003
%RSD	112.62	2.7695	3.3276	2.0287	73.374	154.78	64.004	8.7893	107.54	171.64	26.461
#1	.00070	-.02050	.00201	.05361	.00010	.00000	-.00110	.03217	.00003	.00001	.00010
#2	.00008	-.02132	.00210	.05209	.00032	-.00006	-.00291	.03643	.00025	-.00006	.00015
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00312							
Low Limit		-.01800		-.00312							

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00478**	F **.55443**	W **.00291**	**.00639**	**-.00006**	**.00042**	F **1.1535**	**-.00018**	F **.04080**	**.00058**
Stddev	.00020	.00203	.10344	.00080	.00166	.00001	.00012	.0372	.00001	.00331	.00021
%RSD	121.37	42.464	18.657	27.513	25.932	13.204	28.943	3.2230	5.8050	8.1085	35.453
#1	-.00002	.00621	.62757	.00348	.00757	-.00005	.00033	1.1797	-.00017	.04314	.00073
#2	-.00031	.00334	.48129	.00235	.00522	-.00006	.00051	1.1272	-.00019	.03847	.00044
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit			.25000	.00261				.10000		.01000	
Low Limit			-.25000	-.00261				-.10000		-.01000	

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08550**	W **.00556**	**.00229**	**.00139**	**.00046**	W **.00037**	**.00165**	**-.00018**	**-.00100**	**.02202**	**-.00012**
Stddev	.00113	.00116	.00173	.01411	.00034	.00005	.00050	.00016	.00026	.03427	.00014
%RSD	1.3180	20.867	75.639	1011.2	75.045	13.948	30.291	86.020	25.659	155.59	117.85
#1	.08630	.00474	.00352	.01137	.00070	.00033	.00200	-.00007	-.00082	-.00221	-.00002
#2	.08471	.00639	.00107	-.00858	.00022	.00040	.00129	-.00029	-.00118	.04625	-.00021
Check ?	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.00314				.00030					
Low Limit		-.00314				-.00030					

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.00161**	**.00081**
Stddev	.00024	.00206
%RSD	14.689	252.90
#1	.00144	.00227
#2	.00177	-.00064
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5457.7**	**71136.**	**4934.1**
Stddev	40.2	280.	10.8
%RSD	.73637	.39355	.21984
#1	5429.3	70938.	4941.7
#2	5486.1	71334.	4926.4

Sample Name: CCVL1192076 Acquired: 12/28/2011 20:16:59 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01119**	**.08988**	**.01661**	F **.15145**	**.01018**	**.00101**	W **.12340**	**.22411**	**.00538**	**.01074**	**.01024**
Stddev	.00041	.00064	.00068	.00097	.00028	.00003	.00003	.00159	.00017	.00013	.00008
%RSD	3.6662	.71465	4.0998	.63908	2.7303	2.7599	.02132	.70926	3.0886	1.2362	.80772
#1	.01148	.08942	.01709	.15214	.00998	.00099	.12338	.22524	.00526	.01064	.01018
#2	.01090	.09033	.01613	.15077	.01037	.00103	.12342	.22299	.00549	.01083	.01030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.10000			.10000				
Range				30.000%			20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01589**	**.10176**	**3.2857**	F **.01465**	**.21599**	**.01009**	**.01976**	F **1.8712**	**.04229**	**3.0277**	**.00920**
Stddev	.00028	.00167	.0236	.00122	.00094	.00004	.00023	.0024	.00050	.0089	.00049
%RSD	1.7889	1.6453	.71695	8.3552	.43543	.43428	1.1645	.12687	1.1903	.29428	5.2941
#1	.01569	.10295	3.3024	.01379	.21532	.01006	.01992	1.8695	.04264	3.0340	.00954
#2	.01609	.10058	3.2691	.01552	.21665	.01012	.01960	1.8729	.04193	3.0214	.00886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				.01000				1.0000			
Range				30.000%				30.000%			

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07923**	**.01074**	**.01415**	**.48304**	**.10113**	**.01025**	**.01573**	**.01011**	**.01652**	**.06024**	**.01048**
Stddev	.00278	.00105	.00292	.02118	.00113	.00003	.00035	.00017	.00075	.01705	.00013
%RSD	3.5124	9.7404	20.660	4.3845	1.1205	.30184	2.2078	1.7005	4.5708	28.300	1.2485
#1	.08120	.01148	.01622	.49801	.10193	.01023	.01548	.00999	.01705	.04819	.01039
#2	.07726	.01000	.01208	.46806	.10033	.01027	.01597	.01023	.01598	.07230	.01057
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02164**	**.01615**
Stddev	.00048	.00080
%RSD	2.2201	4.9433
#1	.02198	.01671
#2	.02130	.01559
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5596.1**	**73124.**	**5133.9**
Stddev	4.9	131.	4.3
%RSD	.08770	.17963	.08339
#1	5599.6	73217.	5136.9
#2	5592.6	73031.	5130.8

Sample Name: 280-24076-C-1-B Acquired: 12/28/2011 20:19:29 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.33002**	**-.00006**	**.05200**	**.00504**	**.00000**	**-.00391**	**1.1169**	**.00003**	**.00001**
Stddev	.00029	.00101	.00028	.00031	.00000	.00002	.00020	.0040	.00011	.00000
%RSD	84.805	.30729	452.79	.59085	.02866	768.98	5.0393	.35401	435.07	15.599
#1	.00014	.32930	.00014	.05222	.00504	.00001	-.00377	1.1141	.00010	.00001
#2	.00054	.33074	-.00026	.05178	.00504	-.00001	-.00405	1.1197	-.00005	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00082**	**.05667**	**.56652**	**.00349**	**1.0975**	**.00541**	**.00006**	**7.6343**	**.00047**
Stddev	.00006	.00008	.00139	.01482	.00143	.0033	.00002	.00003	.0348	.00013
%RSD	24.419	9.9106	2.4459	2.6166	41.041	.29841	.39074	47.083	.45607	27.171
#1	.00029	.00088	.05766	.55604	.00450	1.0951	.00539	.00008	7.6097	.00055
#2	.00021	.00076	.05569	.57700	.00248	1.0998	.00542	.00004	7.6589	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01919**	**.00029**	**.22495**	**-.00066**	**-.00045**	**2.7487**	**-.00015**	**.00698**	**.00184**	**.00263**
Stddev	.00268	.00122	.00154	.00115	.00083	.0242	.00044	.00006	.00037	.00027
%RSD	13.971	412.84	.68432	173.94	184.22	.87852	287.81	.83787	20.337	10.200
#1	.02109	-.00056	.22604	.00015	.00014	2.7657	.00016	.00694	.00211	.00244
#2	.01730	.00115	.22386	-.00148	-.00104	2.7316	-.00047	.00702	.00158	.00282
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**-.01191**	**-.00004**	**.00583**	**.00179**
Stddev	.00075	.01210	.00048	.00020	.00017
%RSD	106.09	101.58	1174.8	3.4249	9.2340
#1	-.00125	-.02046	.00030	.00597	.00191
#2	-.00018	-.00336	-.00038	.00569	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5538.1**	**72126.**	**5062.9**
Stddev	.4	74.	19.4
%RSD	.00648	.10237	.38256
#1	5538.3	72178.	5076.6
#2	5537.8	72074.	5049.2

Sample Name: 280-24076-N-2-B Acquired: 12/28/2011 20:22:02 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.33614**	**-.00038**	**.43497**	**.06562**	**.00011**	**-.00571**	**108.31**	**.00352**	**.00442**
Stddev	.00014	.00607	.00243	.00053	.00057	.00002	.00144	.42	.00001	.00011
%RSD	59.637	1.8056	648.77	.12196	.87329	16.778	25.196	.38767	.37805	2.5213
#1	.00032	.33185	.00135	.43460	.06602	.00012	-.00470	108.61	.00352	.00434
#2	.00013	.34043	-.00210	.43535	.06521	.00009	-.00673	108.01	.00351	.00450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00980**	**.12426**	**4.0445**	**.00291**	**34.907**	**.25681**	**.00015**	**100.20**	**.00315**
Stddev	.00008	.00013	.00034	.0003	.00191	.029	.00017	.00002	.32	.00029
%RSD	11.789	1.2875	.27724	.00615	65.769	.08294	.06569	10.818	.31574	9.3342
#1	.00070	.00989	.12450	4.0447	.00155	34.928	.25693	.00016	100.42	.00335
#2	.00059	.00971	.12402	4.0444	.00426	34.887	.25670	.00014	99.972	.00294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14498**	**-.00079**	**130.89**	**-.00045**	**.01264**	**8.7941**	**-.00027**	**.46705**	**-.00214**	**.00604**
Stddev	.00112	.00074	.17	.00069	.00075	.0203	.00019	.00189	.00042	.00018
%RSD	.77434	94.124	.12934	154.81	5.9279	.23124	70.380	.40557	19.754	2.9519
#1	.14418	-.00026	131.01	.00004	.01317	8.8085	-.00041	.46839	-.00244	.00617
#2	.14577	-.00132	130.77	-.00094	.01211	8.7798	-.00014	.46571	-.00185	.00592
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**.03269**	**.00124**	**.02116**	**.00222**
Stddev	.00002	.00582	.00004	.00007	.00099
%RSD	2.1075	17.802	3.3578	.31812	44.890
#1	-.00108	.03680	.00121	.02111	.00151
#2	-.00105	.02857	.00127	.02121	.00292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5431.8**	**70063.**	**5198.6**
Stddev	9.2	28.	28.4
%RSD	.16883	.03969	.54587
#1	5438.3	70043.	5178.5
#2	5425.3	70082.	5218.7

Sample Name: 280-24076-C-3-B Acquired: 12/28/2011 20:24:31 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00781**	**.00377**	**.06524**	**.01964**	**-.00004**	**-.00099**	**125.19**	**.00002**	**-.00007**
Stddev	.00026	.00009	.00260	.00059	.00026	.00004	.00102	.41	.00011	.00015
%RSD	135.25	1.1607	68.993	.89862	1.3124	96.566	103.35	.32907	447.14	209.10
#1	.00001	.00787	.00560	.06566	.01983	-.00001	-.00027	124.90	-.00005	-.00018
#2	.00037	.00775	.00193	.06483	.01946	-.00007	-.00171	125.48	.00010	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.00235**	**32.882**	**3.3976**	**.00348**	**4.4637**	**.13030**	**.00008**	**5.0604**	**.00097**
Stddev	.00020	.00021	.104	.0294	.00116	.0005	.00007	.00027	.0174	.00012
%RSD	22.218	8.8488	.31680	.86488	33.276	.01133	.05645	354.23	.34283	12.790
#1	.00104	.00250	32.808	3.4184	.00266	4.4634	.13025	.00027	5.0726	.00088
#2	.00076	.00221	32.955	3.3769	.00430	4.4641	.13036	-.00011	5.0481	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09532**	**.00054**	**2.1296**	**.00107**	**-.00161**	**1.3440**	**.00014**	**.19587**	**-.00232**	**-.00025**
Stddev	.00096	.00008	.0058	.00133	.00421	.0056	.00014	.00027	.00044	.00023
%RSD	1.0119	15.371	.27054	124.01	261.20	.41933	106.29	.13594	18.788	91.589
#1	.09601	.00048	2.1337	.00201	-.00459	1.3400	.00003	.19569	-.00263	-.00009
#2	.09464	.00060	2.1256	.00013	.00137	1.3480	.00024	.19606	-.00201	-.00042
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.02597**	**.00104**	**.07409**	**.00002**
Stddev	.00114	.02170	.00001	.00028	.00177
%RSD	955.73	83.584	1.1301	.38298	9410.6
#1	-.00092	.04131	.00105	.07429	.00127
#2	.00068	.01062	.00103	.07389	-.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5415.7**	**69816.**	**5017.3**
Stddev	5.8	118.	23.3
%RSD	.10780	.16850	.46341
#1	5419.9	69899.	5033.7
#2	5411.6	69733.	5000.8

Sample Name: 280-24076-C-4-B Acquired: 12/28/2011 20:27:00 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**-.01811**	**.00060**	**.03224**	**.00012**	**-.00006**	**.00075**	**.09181**	**.00012**	**-.00010**
Stddev	.00012	.00001	.00377	.00054	.00027	.00004	.00010	.00233	.00000	.00044
%RSD	16.398	.07815	624.94	1.6837	223.41	65.701	13.915	2.5402	2.3910	425.90
#1	.00064	-.01810	.00327	.03262	.00031	-.00003	.00082	.09016	.00011	-.00041
#2	.00081	-.01812	-.00206	.03185	-.00007	-.00008	.00067	.09346	.00012	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00020**	**.01436**	**.21738**	**.00439**	**.00319**	**.00002**	**-.00006**	**.69510**	**.00201**
Stddev	.00007	.00005	.00029	.03148	.00005	.00032	.00002	.00001	.00415	.00004
%RSD	81.263	27.185	2.0329	14.482	1.1142	10.013	70.900	18.492	.59722	2.1019
#1	-.00003	-.00016	.01457	.23964	.00443	.00297	.00003	-.00007	.69216	.00204
#2	-.00013	-.00023	.01415	.19512	.00436	.00342	.00001	-.00005	.69803	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**-.00022**	**.03001**	**.00112**	**.00028**	**.32480**	**.00012**	**.00025**	**.00076**	**.00007**
Stddev	.00181	.00031	.00095	.00159	.00041	.00132	.00044	.00010	.00096	.00006
%RSD	177.38	142.65	3.1800	141.67	144.44	.40736	367.71	40.615	126.32	92.870
#1	.00231	.00000	.03069	.00225	.00057	.32386	.00043	.00018	.00008	.00011
#2	-.00026	-.00044	.02934	.00000	-.00001	.32573	-.00019	.00032	.00144	.00002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00129**	**.02128**	**.00008**	**.00270**	**.00135**
Stddev	.00096	.03916	.00007	.00031	.00119
%RSD	74.735	184.05	86.825	11.476	88.617
#1	-.00061	-.00641	.00014	.00248	.00050
#2	-.00197	.04897	.00003	.00292	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5549.6**	**72436.**	**4992.1**
Stddev	2.5	362.	18.3
%RSD	.04561	.49952	.36730
#1	5551.4	72180.	4979.2
#2	5547.8	72692.	5005.1

Sample Name: 280-24076-J-5-B Acquired: 12/28/2011 20:29:32 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.03694**	**.00245**	**.06821**	**.00681**	**.00003**	**-.00357**	**5.6535**	**.00013**	**.00006**
Stddev	.00003	.00040	.00016	.00003	.00017	.00003	.00120	.0073	.00005	.00009
%RSD	18.610	1.0735	6.3533	.04905	2.4676	86.352	33.504	.12817	38.582	150.13
#1	.00014	.03666	.00234	.06819	.00693	.00001	-.00272	5.6484	.00017	.00013
#2	.00019	.03722	.00256	.06823	.00669	.00005	-.00442	5.6586	.00010	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00189**	**.61084**	**2.6093**	**.00415**	**.63354**	**.04166**	**.00136**	**1.6613**	**.00110**
Stddev	.00006	.00024	.00185	.0066	.00036	.00023	.00003	.00002	.0080	.00018
%RSD	10.839	12.606	.30252	.25370	8.6220	.03680	.06976	1.4185	.48228	16.068
#1	.00052	.00206	.60953	2.6046	.00440	.63371	.04164	.00134	1.6556	.00098
#2	.00061	.00172	.61215	2.6139	.00390	.63338	.04168	.00137	1.6669	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15882**	**.00038**	**1.7752**	**.00022**	**-.00039**	**4.3565**	**-.00019**	**.02783**	**.00019**	**.00191**
Stddev	.00168	.00096	.0044	.00048	.00284	.0155	.00065	.00006	.00085	.00031
%RSD	1.0566	253.05	.24923	214.08	729.03	.35622	351.79	.20057	445.45	16.267
#1	.16001	.00106	1.7783	-.00011	.00162	4.3456	-.00065	.02779	-.00041	.00213
#2	.15763	-.00030	1.7721	.00056	-.00239	4.3675	.00028	.02787	.00079	.00169
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.01504**	**.00674**	**.00701**	**.00008**
Stddev	.00062	.00732	.00022	.00046	.00095
%RSD	158.99	48.676	3.2057	6.4944	1262.0
#1	-.00083	.00987	.00659	.00669	.00075
#2	.00005	.02022	.00689	.00734	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5539.5**	**72021.**	**5041.6**
Stddev	.4	20.	29.1
%RSD	.00687	.02760	.57788
#1	5539.2	72035.	5062.2
#2	5539.8	72007.	5021.0

Sample Name: 280-24076-L-6-B Acquired: 12/28/2011 20:32:01 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.13389**	**.00114**	**.04061**	**.03304**	**-.00002**	**-.00274**	**6.2435**	**.00010**	**-.00017**
Stddev	.00047	.00029	.00033	.00108	.00001	.00000	.00208	.0012	.00000	.00016
%RSD	104.32	.21459	29.134	2.6584	.04179	20.982	75.911	.01878	1.2949	90.290
#1	.00078	.13368	.00091	.04137	.03305	-.00002	-.00127	6.2427	.00010	-.00028
#2	.00012	.13409	.00138	.03984	.03303	-.00002	-.00422	6.2443	.00010	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00006**	**.00622**	**2.2624**	**.00460**	**2.3182**	**.00024**	**.00608**	**6.3542**	**-.00003**
Stddev	.00006	.00008	.00269	.0227	.00174	.0055	.00000	.00022	.0043	.00014
%RSD	72.304	129.36	43.267	1.0014	37.957	.23666	2.0189	3.6977	.06709	432.11
#1	-.00012	.00000	.00432	2.2464	.00583	2.3143	.00024	.00624	6.3572	.00006
#2	-.00004	.00011	.00812	2.2784	.00336	2.3220	.00024	.00592	6.3512	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01075**	**.00005**	**1.0059**	**.00104**	**.00215**	**3.9287**	**.00012**	**.28677**	**.00020**	**-.00028**
Stddev	.00161	.00024	.0047	.00004	.00160	.0243	.00013	.00031	.00098	.00047
%RSD	15.023	437.33	.47081	3.6412	74.595	.61745	111.58	.10806	491.30	170.80
#1	.01189	-.00011	1.0093	.00102	.00102	3.9115	.00021	.28655	.00089	-.00061
#2	.00961	.00022	1.0026	.00107	.00328	3.9458	.00002	.28699	-.00049	.00006
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.00465**	**.00005**	**.00278**	**.00055**
Stddev	.00036	.00529	.00018	.00025	.00038
%RSD	102.80	113.75	356.88	8.8334	69.319
#1	-.00060	.00091	-.00008	.00261	.00082
#2	-.00009	.00840	.00018	.00296	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5525.0**	**71584.**	**5010.1**
Stddev	8.0	69.	14.3
%RSD	.14500	.09639	.28474
#1	5519.4	71535.	5000.0
#2	5530.7	71633.	5020.2

Sample Name: 280-24076-D-7-B Acquired: 12/28/2011 20:34:31 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.37677**	**-.00070**	**.15334**	**.01266**	**-.00006**	**-.00126**	**23.985**	**.00009**	**.00034**
Stddev	.00003	.00001	.00067	.00018	.00004	.00002	.00172	.208	.00006	.00021
%RSD	28.373	.00178	96.243	.11835	.31196	31.165	136.22	.86667	70.608	62.785
#1	.00014	.37677	-.00022	.15321	.01263	-.00008	-.00005	24.132	.00004	.00019
#2	.00009	.37676	-.00118	.15347	.01269	-.00005	-.00248	23.838	.00013	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00148**	**.04463**	**5.1428**	**.00308**	**1.9043**	**.09004**	**.00024**	**1.4383**	**.00012**
Stddev	.00011	.00013	.00164	.0399	.00159	.0114	.00042	.00007	.0116	.00012
%RSD	14.570	8.5474	3.6708	.77581	51.798	.59672	.46665	28.033	.80753	98.470
#1	.00082	.00157	.04347	5.1710	.00195	1.9124	.09033	.00029	1.4465	.00021
#2	.00067	.00139	.04579	5.1146	.00421	1.8963	.08974	.00019	1.4301	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02535**	**.00001**	**4.1199**	**.00048**	**-.00118**	**1.7451**	**-.00023**	**.06931**	**-.00019**	**.00166**
Stddev	.00012	.00102	.0084	.00145	.00066	.0087	.00023	.00071	.00053	.00005
%RSD	.47673	8086.5	.20499	303.31	55.899	.50077	101.87	1.0302	276.94	2.8646
#1	.02526	.00074	4.1139	-.00055	-.00165	1.7512	-.00006	.06982	-.00057	.00162
#2	.02543	-.00071	4.1258	.00150	-.00071	1.7389	-.00039	.06881	.00018	.00169
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**.00974**	**.00034**	**.01214**	**-.00043**
Stddev	.00052	.02026	.00021	.00039	.00120
%RSD	63.014	208.00	62.661	3.1863	281.21
#1	-.00046	.02406	.00019	.01241	.00042
#2	-.00119	-.00459	.00049	.01187	-.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5464.5**	**70898.**	**4992.9**
Stddev	.3	345.	20.9
%RSD	.00638	.48601	.41888
#1	5464.3	70654.	4978.1
#2	5464.8	71142.	5007.7

Sample Name: 280-24076-D-9-B Acquired: 12/28/2011 20:37:03 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.01936**	**.00209**	**.03234**	**.03712**	**-.00003**	**-.00352**	**17.216**	**.00002**	**-.00030**
Stddev	.00001	.00055	.00093	.00015	.00027	.00008	.00025	.092	.00012	.00014
%RSD	2.3334	2.8182	44.329	.47561	.72403	256.31	7.2404	.53401	549.48	47.975
#1	.00023	-.01974	.00144	.03245	.03693	.00003	-.00334	17.151	-.00006	-.00040
#2	.00024	-.01897	.00275	.03223	.03731	-.00009	-.00370	17.281	.00011	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**.00007**	**.25292**	**1.0665**	**.00817**	**1.4582**	**.00294**	**.00014**	**5.1519**	**.00025**
Stddev	.00003	.00035	.00201	.0296	.00160	.0018	.00009	.00025	.0132	.00013
%RSD	2.7417	496.97	.79543	2.7735	19.641	.12122	3.1124	171.38	.25547	53.138
#1	.00118	.00032	.25150	1.0456	.00704	1.4594	.00287	-.00003	5.1426	.00035
#2	.00114	-.00018	.25435	1.0875	.00931	1.4569	.00300	.00032	5.1612	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18222**	**.00013**	**.12485**	**.00018**	**-.00108**	**6.6042**	**.00029**	**.05706**	**.00042**	**-.00029**
Stddev	.00110	.00025	.00358	.00064	.00043	.0031	.00035	.00027	.00065	.00013
%RSD	.60311	200.28	2.8662	356.06	40.070	.04642	122.20	.46868	154.49	43.491
#1	.18144	.00031	.12738	-.00027	-.00077	6.6020	.00053	.05687	-.00004	-.00020
#2	.18300	-.00005	.12232	.00063	-.00138	6.6064	.00004	.05725	.00088	-.00038
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.01059**	**.00134**	**.00323**	**.00032**
Stddev	.00041	.01746	.00002	.00011	.00193
%RSD	73.989	164.86	1.5686	3.3697	604.77
#1	-.00085	.00176	.00136	.00331	-.00104
#2	-.00027	-.02294	.00133	.00315	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5521.5**	**71580.**	**4997.6**
Stddev	13.0	8.	21.1
%RSD	.23628	.01143	.42266
#1	5530.7	71574.	5012.6
#2	5512.3	71585.	4982.7

Sample Name: CCVH-1190977 Acquired: 12/28/2011 20:39:34 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00313**	**49.871**	**-.00062**	**.02182**	**.00050**	**.00008**	**1.0192**	**.01124**	**-.00156**	**.00229**	**.00000**	**-.00283**	**49.275**
Stddev	.00047	.125	.00578	.00029	.00021	.00005	.0013	.00182	.00009	.00015	.0002	.00031	.222
%RSD	14.970	.25006	934.66	1.3485	42.310	67.665	.12301	16.221	5.6984	6.3845	5381.3	10.769	.44961
#1	.00347	49.960	-.00470	.02203	.00035	.00012	1.0184	.00995	-.00163	.00219	.00013	-.00305	49.431
#2	.00280	49.783	.00347	.02162	.00065	.00004	1.0201	.01253	-.00150	.00240	-.00014	-.00262	49.118
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21117**	**.00548**	**.02868**	**-.00075**	**-.00135**	**253.92**	**.00172**	**.00530**	**-.00021**	**5.3014**	**-.00317**	**-.00028**	**.00119**
Stddev	.00511	.00192	.00191	.00003	.00023	.73	.00026	.00000	.00074	.0050	.00104	.00316	.00387
%RSD	2.4215	35.012	6.6436	4.3947	16.705	.28780	15.329	.00147	360.34	.09490	32.945	1137.5	324.52
#1	.20756	.00684	.02734	-.00077	-.00119	254.43	.00153	.00530	.00032	5.2979	-.00391	.00196	-.00154
#2	.21479	.00412	.03003	-.00072	-.00151	253.40	.00190	.00530	-.00073	5.3050	-.00243	-.00251	.00392
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00167**	**.00035**	**5.0915**	**-.02399**	**.00194**	**10.351**	**.00508**	**.00246**	**-.11354**
Stddev	.00017	.00004	.0263	.00054	.00022	.044	.00012	.00011	.00381
%RSD	10.322	10.176	.51718	2.2364	11.257	.42553	2.4555	4.6459	3.3549
#1	.00155	.00033	5.1101	-.02437	.00210	10.382	.00517	.00238	-.11624
#2	.00179	.00038	5.0729	-.02361	.00179	10.320	.00500	.00254	-.11085
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5346.8**	**67612.**	**4876.1**
Stddev	4.6	383.	16.1
%RSD	.08545	.56579	.32931
#1	5350.1	67341.	4864.8
#2	5343.6	67882.	4887.5

Sample Name: CCV-1190978 Acquired: 12/28/2011 20:42:02 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52277**	**.50435**	**1.0097**	**.52724**	**.51052**	**.48426**	**.00072**	**5.0565**	**.51306**	**.51615**	**.51325**	**.50299**	**2.4616**
Stddev	.00127	.00144	.0053	.00235	.00308	.00273	.00122	.0207	.00177	.00110	.00116	.00119	.0083
%RSD	.24379	.28615	.52376	.44552	.60386	.56406	169.16	.40952	.34439	.21293	.22637	.23664	.33795
#1	.52367	.50333	1.0135	.52890	.51270	.48619	.00159	5.0711	.51431	.51693	.51407	.50383	2.4674
#2	.52187	.50538	1.0060	.52558	.50834	.48233	-.00014	5.0418	.51181	.51537	.51243	.50215	2.4557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.625**	**1.0172**	**20.108**	**.49868**	**.50547**	**5.2747**	**.51101**	**1.0039**	**1.0300**	**.01698**	**1.0061**	**.99665**	**4.8880**
Stddev	.246	.0024	.009	.00044	.00099	.0232	.00027	.0033	.0082	.00032	.0024	.00094	.0404
%RSD	.49629	.23337	.04557	.08795	.19556	.43993	.05264	.32591	.79279	1.8919	.24143	.09478	.82570
#1	49.799	1.0189	20.101	.49837	.50617	5.2911	.51120	1.0016	1.0358	.01675	1.0078	.99598	4.9166
#2	49.451	1.0156	20.114	.49899	.50477	5.2583	.51082	1.0062	1.0242	.01721	1.0044	.99732	4.8595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0025**	**.49443**	**-.00568**	**.50901**	**1.0539**	**.02489**	**.51525**	**.50286**	**.49905**
Stddev	.0038	.00231	.00070	.00052	.0022	.02962	.00126	.00066	.00194
%RSD	.37569	.46651	12.250	.10279	.21281	118.99	.24432	.13199	.38852
#1	1.0052	.49606	-.00519	.50864	1.0555	.00395	.51436	.50239	.50043
#2	.99985	.49280	-.00617	.50938	1.0523	.04584	.51614	.50333	.49768
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5508.5**	**70369.**	**4974.7**
Stddev	7.3	20.	21.0
%RSD	.13318	.02794	.42235
#1	5503.3	70383.	4959.9
#2	5513.7	70356.	4989.6

Sample Name: CCB Acquired: 12/28/2011 20:44:20 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	W **-.02472**	**.00367**	F **.01818**	**.00019**	**-.00003**	**-.00017**	**-.00238**	**.00003**	**-.00018**
Stddev	.00026	.00016	.00095	.00023	.00020	.00003	.00047	.00079	.00003	.00008
%RSD	68.971	.64196	25.856	1.2517	105.82	110.24	282.89	33.318	84.231	43.900
#1	.00056	-.02461	.00435	.01802	.00034	-.00005	-.00050	-.00182	.00005	-.00024
#2	.00019	-.02483	.00300	.01835	.00005	-.00001	.00017	-.00294	.00001	-.00013
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00312						
Low Limit		-.01800		-.00312						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00013**	**-.00338**	**.13503**	W **.00482**	**.00165**	**-.00019**	**.00034**	F **.30887**	**.00016**
Stddev	.00005	.00023	.00021	.04265	.00098	.00012	.00000	.00015	.01139	.00011
%RSD	17.891	184.04	6.2057	31.582	20.373	7.4140	1.0353	43.225	3.6882	70.945
#1	.00023	-.00029	-.00324	.10488	.00413	.00173	-.00019	.00024	.31693	.00008
#2	.00030	.00004	-.00353	.16519	.00551	.00156	-.00019	.00044	.30082	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					.00261				.10000	
Low Limit					-.00261				-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**-.00125**	**.01233**	W **.00584**	**-.00036**	**-.00932**	**.00035**	**.00004**	**.00093**	**.00015**
Stddev	.00237	.00022	.00255	.00000	.00042	.01404	.00062	.00008	.00072	.00013
%RSD	525.25	17.577	20.720	.03778	116.96	150.64	177.31	173.06	78.054	86.352
#1	-.00122	-.00140	.01413	.00584	-.00006	-.01925	-.00009	.00010	.00042	.00006
#2	.00212	-.00109	.01052	.00584	-.00066	.00061	.00079	-.00001	.00144	.00024
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00314						
Low Limit				-.00314						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.00401**	**-.00024**	**.00121**	**.00103**
Stddev	.00014	.00628	.00048	.00009	.00083
%RSD	17.891	156.39	200.91	7.7153	80.826
#1	-.00068	.00845	-.00058	.00128	.00162
#2	-.00088	-.00042	.00010	.00115	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5479.6**	**70905.**	**4919.3**
Stddev	1.8	394.	7.7
%RSD	.03217	.55514	.15574
#1	5478.3	71183.	4913.9
#2	5480.8	70626.	4924.7

Sample Name: CCVL1192076 Acquired: 12/28/2011 20:46:54 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01110**	**.08532**	W **.01839**	W **.12020**	**.01045**	**.00091**	W **.12265**	**.19817**	**.00507**	**.01073**	**.01027**
Stddev	.00068	.00073	.00087	.00012	.00021	.00007	.00144	.00215	.00014	.00014	.00008
%RSD	6.1496	.86105	4.7168	.09586	2.0295	7.8868	1.1706	1.0869	2.7184	1.3102	.75332
#1	.01062	.08480	.01900	.12012	.01060	.00096	.12163	.19664	.00497	.01083	.01022
#2	.01158	.08584	.01777	.12028	.01030	.00086	.12366	.19969	.00517	.01063	.01033
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.01500	.10000			.10000				
Range			20.000%	20.000%			20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01568**	**.09813**	**3.0243**	F **.01455**	**.21543**	**.01000**	**.01969**	W **1.2897**	**.04258**	**2.9361**	**.00910**
Stddev	.00023	.00061	.0049	.00109	.00014	.00006	.00013	.0053	.00030	.0086	.00040
%RSD	1.4384	.62178	.16298	7.4640	.06501	.55157	.63969	.40940	.70066	.29127	4.4163
#1	.01552	.09856	3.0278	.01532	.21552	.01004	.01961	1.2860	.04237	2.9300	.00882
#2	.01584	.09770	3.0208	.01378	.21533	.00996	.01978	1.2935	.04280	2.9421	.00939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value				.01000				1.0000			
Range				30.000%				20.000%			

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01229**	**.01017**	**.01342**	**.47064**	**.10092**	**.01002**	**.01486**	**.00992**	**.01547**	**.06435**	**.01009**
Stddev	.00112	.00009	.00195	.00952	.00008	.00005	.00097	.00003	.00026	.02280	.00008
%RSD	9.0733	.92803	14.568	2.0222	.07451	.52131	6.5572	.32308	1.6941	35.435	.77601
#1	.01308	.01024	.01204	.47737	.10087	.01006	.01555	.00990	.01528	.08047	.01015
#2	.01150	.01011	.01480	.46391	.10098	.00999	.01417	.00994	.01565	.04822	.01003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02223**	**.01774**
Stddev	.00025	.00061
%RSD	1.1248	3.4232
#1	.02205	.01817
#2	.02241	.01731
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5619.1**	**72457.**	**5027.5**
Stddev	15.9	147.	17.5
%RSD	.28343	.20323	.34732
#1	5630.4	72353.	5039.8
#2	5607.9	72561.	5015.1

Sample Name: 280-24098-K-1-A Acquired: 12/28/2011 20:49:25 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**-.02150**	**-.00083**	**3.3267**	**.06682**	**-.00014**	**-.00754**	**286.64**	**.00049**	**.00060**
Stddev	.00077	.00050	.00098	.0084	.00003	.00009	.00069	6.06	.00006	.00011
%RSD	73.090	2.3316	118.02	.25309	.03902	62.792	9.2104	2.1146	12.521	17.598
#1	.00051	-.02114	-.00152	3.3208	.06680	-.00020	-.00803	290.93	.00045	.00067
#2	.00160	-.02185	-.00014	3.3327	.06684	-.00008	-.00705	282.35	.00053	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00425**	**.00467**	**9.9640**	**18.863**	**.19302**	W **530.08**	**4.2906**	**.00122**	W **1445.8**	**.06903**
Stddev	.00006	.00034	.0380	.022	.00191	3.86	.0134	.00019	4.6	.00044
%RSD	1.3669	7.3166	.38170	.11740	.98744	.72884	.31224	15.453	.32102	.63260
#1	.00421	.00491	9.9909	18.847	.19167	532.81	4.2811	.00135	1449.1	.06934
#2	.00429	.00443	9.9371	18.879	.19437	527.34	4.3000	.00109	1442.5	.06872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						500.00			500.00	
Low Limit						-.10000			10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58637**	**.00058**	**942.86**	**.00015**	**.00229**	**30.160**	**.00076**	**3.0129**	**-.00276**	**-.00245**
Stddev	.00586	.00024	.42	.00164	.00123	.149	.00013	.0096	.00252	.00014
%RSD	1.0001	41.453	.04429	1058.8	53.913	.49445	17.502	.31799	91.415	5.6769
#1	.58223	.00041	942.56	-.00100	.00142	30.266	.00085	3.0197	-.00454	-.00255
#2	.59052	.00075	943.15	.00131	.00316	30.055	.00067	3.0061	-.00098	-.00235
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00301**	**.01727**	**.00342**	**.01175**	**.00459**
Stddev	.00026	.00256	.00028	.00010	.00090
%RSD	8.6097	14.821	8.2618	.84417	19.580
#1	-.00283	.01546	.00322	.01168	.00395
#2	-.00319	.01908	.00362	.01182	.00522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4632.9**	**58868.**	**4792.6**
Stddev	6.4	226.	44.1
%RSD	.13752	.38341	.92110
#1	4637.4	58708.	4761.3
#2	4628.4	59027.	4823.8

Sample Name: 280-24098-K-3-A Acquired: 12/28/2011 20:52:54 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.20582**	**.01193**	**3.2439**	**.04049**	**-.00014**	**-.00206**	**169.90**	**.00048**	**.00129**
Stddev	.00034	.00069	.00036	.0017	.00028	.00007	.00258	.65	.00022	.00013
%RSD	287.89	.33282	3.0453	.05356	.69980	49.566	124.86	.38140	45.065	10.256
#1	.00036	.20631	.01219	3.2427	.04069	-.00019	-.00389	170.36	.00033	.00120
#2	-.00012	.20534	.01168	3.2451	.04029	-.00009	-.00024	169.44	.00064	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00352**	**.00826**	**5.4691**	**16.472**	**.09454**	W **571.20**	**1.0000**	**.00507**	W **915.31**	**.04782**
Stddev	.00025	.00003	.0191	.012	.00370	.53	.0046	.00001	3.24	.00001
%RSD	7.2299	.41575	.34853	.07097	3.9131	.09308	.46058	.22525	.35410	.01050
#1	.00370	.00823	5.4825	16.481	.09716	571.58	1.0033	.00508	917.61	.04782
#2	.00334	.00828	5.4556	16.464	.09193	570.83	.99677	.00506	913.02	.04782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						500.00			500.00	
Low Limit						-.10000			10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24889**	**-.00205**	**742.04**	**.00135**	**.00180**	**17.463**	**.00001**	**2.2960**	**-.00172**	**-.00181**
Stddev	.00295	.00065	.37	.00171	.00153	.089	.00030	.0089	.00051	.00008
%RSD	1.1853	31.882	.04971	126.66	85.070	.51000	3046.0	.38988	29.906	4.4756
#1	.24681	-.00252	741.78	.00255	.00072	17.526	-.00020	2.3023	-.00208	-.00175
#2	.25098	-.00159	742.30	.00014	.00288	17.400	.00022	2.2896	-.00135	-.00187
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00156**	**.02658**	**.00369**	**.03738**	**-.00076**
Stddev	.00009	.01430	.00001	.00054	.00058
%RSD	5.4909	53.821	.27570	1.4447	76.307
#1	-.00162	.03669	.00370	.03776	-.00035
#2	-.00150	.01646	.00369	.03700	-.00118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4686.8**	**59845.**	**4825.9**
Stddev	6.1	197.	34.9
%RSD	.12929	.32877	.72257
#1	4691.1	59706.	4801.3
#2	4682.5	59984.	4850.6

Sample Name: 280-24098-K-4-A Acquired: 12/28/2011 20:56:13 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00104**	**.02262**	**.00202**	**2.9175**	**.02798**	**-.00011**	**-.00580**	**158.97**	**.00064**	**.00501**
Stddev	.00066	.00060	.00380	.0081	.00006	.00000	.00397	.89	.00010	.00012
%RSD	62.919	2.6704	188.32	.27850	.21958	1.6158	68.396	.55971	15.876	2.3122
#1	.00058	.02304	.00470	2.9232	.02793	-.00011	-.00861	158.34	.00057	.00493
#2	.00151	.02219	-.00067	2.9117	.02802	-.00011	-.00300	159.60	.00071	.00509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01969**	**.01400**	**.52600**	**23.816**	**.18471**	**472.95**	**1.4095**	**.04197**	W **990.14**	**.11250**
Stddev	.00022	.00031	.00193	.186	.00098	3.03	.0029	.00001	4.43	.00069
%RSD	1.0926	2.1797	.36638	.78176	.53170	.63994	.20341	.01500	.44791	.61010
#1	.01985	.01422	.52736	23.684	.18402	470.81	1.4075	.04197	987.00	.11298
#2	.01954	.01379	.52463	23.947	.18541	475.09	1.4116	.04198	993.28	.11201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07988**	**-.00167**	**833.99**	**.00190**	**.01406**	**16.448**	**-.00112**	**1.9857**	**-.00228**	**-.00075**
Stddev	.00204	.00116	2.50	.00001	.00358	.097	.00138	.0091	.00248	.00056
%RSD	2.5581	69.457	.29930	.60081	25.440	.59020	123.71	.45789	108.73	75.381
#1	.07844	-.00250	835.75	.00189	.01659	16.379	-.00209	1.9793	-.00403	-.00035
#2	.08133	-.00085	832.22	.00190	.01153	16.517	-.00014	1.9921	-.00053	-.00114
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00110**	**.03440**	**.00283**	**.54383**	**-.00006**
Stddev	.00019	.01656	.00023	.00054	.00069
%RSD	17.146	48.139	7.9676	.10021	1229.0
#1	-.00123	.04610	.00267	.54345	-.00054
#2	-.00097	.02269	.00299	.54422	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4752.1**	**59985.**	**4732.3**
Stddev	9.0	30.	15.9
%RSD	.19002	.04994	.33658
#1	4745.7	60006.	4743.6
#2	4758.4	59964.	4721.0

Sample Name: 280-24098-K-5-A Acquired: 12/28/2011 20:59:30 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00362**	**-.01601**	**.00256**	**3.2920**	**.03086**	**-.00014**	**-.00546**	**262.36**	**.00091**	**.00583**
Stddev	.00040	.00038	.00069	.0149	.00020	.00001	.00379	.01	.00013	.00057
%RSD	10.986	2.3856	26.803	.45265	.64889	7.3415	69.356	.00254	13.850	9.7258
#1	.00333	-.01628	.00305	3.3026	.03072	-.00013	-.00814	262.36	.00082	.00623
#2	.00390	-.01574	.00208	3.2815	.03100	-.00015	-.00278	262.37	.00100	.00543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.02009**	**.97761**	**27.325**	**.18885**	W **1222.2**	**4.6553**	**.01048**	W **2304.1**	**.08580**
Stddev	.00015	.00034	.00223	.217	.00134	9.4	.0426	.00045	2.3	.00014
%RSD	6.9341	1.6841	.22804	.79381	.71118	.77308	.91572	4.3373	.10105	.16094
#1	.00220	.01985	.97604	27.172	.18790	1228.9	4.6855	.01080	2302.5	.08590
#2	.00200	.02033	.97919	27.479	.18980	1215.5	4.6252	.01015	2305.7	.08570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit						500.00			500.00	
Low Limit						-.10000			10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12606**	**.00326**	**1902.9**	**-.00084**	**.00324**	**20.194**	**-.00054**	**3.3890**	**-.00361**	**-.00795**
Stddev	.00235	.00048	10.4	.00093	.00150	.006	.00005	.0007	.00057	.00034
%RSD	1.8655	14.575	.54742	110.54	46.200	.03086	10.145	.02008	15.740	4.2837
#1	.12772	.00293	1910.2	-.00150	.00218	20.190	-.00050	3.3885	-.00320	-.00819
#2	.12439	.00360	1895.5	-.00018	.00429	20.198	-.00058	3.3894	-.00401	-.00771
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00276**	**.05944**	**.00124**	**1.4859**	**.00032**
Stddev	.00096	.02674	.00037	.0074	.00258
%RSD	34.858	44.994	30.200	.49701	798.16
#1	-.00208	.07835	.00150	1.4912	-.00150
#2	-.00344	.04053	.00097	1.4807	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4442.7**	**55102.**	**4609.3**
Stddev	24.1	267.	.4
%RSD	.54162	.48490	.00952
#1	4425.6	54913.	4609.0
#2	4459.7	55291.	4609.6

Sample Name: 280-24101-F-1-B Acquired: 12/28/2011 21:03:00 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**-.02020**	**.00572**	**.35952**	**.10182**	**-.00011**	**-.00627**	**371.60**	**.00008**	**.01233**
Stddev	.00015	.00039	.00116	.00132	.00051	.00003	.00213	3.80	.00011	.00030
%RSD	18.040	1.9292	20.323	.36631	.50513	27.412	33.902	1.0219	131.85	2.4539
#1	.00072	-.01993	.00490	.36045	.10145	-.00013	-.00777	368.91	.00016	.01254
#2	.00093	-.02048	.00655	.35859	.10218	-.00009	-.00477	374.29	.00001	.01211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00149**	**3.1991**	**3.0979**	**.03316**	**42.502**	**3.6911**	**.00239**	**102.93**	**.01204**
Stddev	.00010	.00001	.0128	.0355	.00090	.054	.0353	.00003	.54	.00020
%RSD	51.014	.91706	.40095	1.1444	2.7051	.12644	.95586	1.1382	.52315	1.6355
#1	.00025	.00148	3.1900	3.1229	.03253	42.464	3.7160	.00237	102.55	.01218
#2	.00012	.00150	3.2082	3.0728	.03380	42.540	3.6661	.00241	103.32	.01190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08611**	**-.00048**	**79.557**	**-.00072**	**.00488**	**12.919**	**-.00059**	**3.6266**	**-.00022**	**.00061**
Stddev	.00097	.00052	.078	.00151	.00044	.011	.00008	.0090	.00154	.00010
%RSD	1.1318	108.54	.09809	207.90	9.0313	.08371	12.895	.24806	697.69	16.969
#1	.08679	-.00085	79.612	.00034	.00457	12.911	-.00064	3.6202	.00087	.00053
#2	.08542	-.00011	79.501	-.00179	.00519	12.927	-.00054	3.6330	-.00131	.00068
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	**.00265**	**-.00113**	**.00619**	**-.00098**
Stddev	.00049	.00664	.00023	.00010	.00013
%RSD	35.459	250.29	20.740	1.6198	13.385
#1	-.00174	-.00204	-.00096	.00626	-.00108
#2	-.00104	.00735	-.00130	.00612	-.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5052.5**	**65246.**	**4896.0**
Stddev	2.5	40.	3.1
%RSD	.05015	.06104	.06293
#1	5054.3	65218.	4898.2
#2	5050.7	65275.	4893.8

Sample Name: 280-24102-D-1-C Acquired: 12/28/2011 21:05:41 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.05900**	**.01543**	**.66113**	**.02995**	**-.00006**	**-.00736**	**490.64**	**-.00010**	**.00514**
Stddev	.00015	.00064	.00077	.00075	.00006	.00000	.00031	1.01	.00018	.00013
%RSD	21.800	1.0782	4.9602	.11271	.18768	2.5013	4.2600	.20597	174.89	2.5546
#1	.00082	.05945	.01598	.66166	.02991	-.00006	-.00758	489.93	-.00023	.00523
#2	.00060	.05855	.01489	.66060	.02999	-.00005	-.00714	491.36	.00002	.00504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.00189**	**4.3804**	**3.7044**	**.06004**	**42.680**	**2.6667**	**.00756**	**356.79**	**.00777**
Stddev	.00004	.00034	.0047	.0920	.00198	.074	.0017	.00006	.60	.00006
%RSD	9.0143	18.037	.10798	2.4843	3.2905	.17372	.06247	.78562	.16853	.81581
#1	.00050	.00213	4.3771	3.7695	.05865	42.732	2.6679	.00760	356.36	.00781
#2	.00044	.00165	4.3838	3.6393	.06144	42.627	2.6655	.00752	357.21	.00772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13826**	**-.00037**	**331.42**	**.00037**	**.00260**	**14.964**	**-.00054**	**3.9917**	**-.00164**	**.00345**
Stddev	.00175	.00069	.38	.00058	.00160	.044	.00007	.0045	.00020	.00003
%RSD	1.2638	185.95	.11583	156.53	61.528	.29423	12.908	.11251	12.284	.74838
#1	.13702	.00012	331.69	.00078	.00147	14.932	-.00049	3.9885	-.00178	.00343
#2	.13950	-.00085	331.15	-.00004	.00374	14.995	-.00059	3.9948	-.00149	.00347
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.00551**	**.00014**	**.00651**	**.00066**
Stddev	.00077	.00879	.00035	.00063	.00162
%RSD	76.266	159.40	257.88	9.6132	243.65
#1	-.00047	.01173	.00038	.00607	-.00048
#2	-.00156	-.00070	-.00011	.00695	.00180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4938.1**	**63237.**	**4835.8**
Stddev	4.4	155.	17.9
%RSD	.08977	.24572	.37107
#1	4935.0	63347.	4823.1
#2	4941.2	63127.	4848.5

Sample Name: 280-24102-D-2-C Acquired: 12/28/2011 21:08:20 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**1.3519**	**.00289**	**1.3426**	**.05593**	**-.00003**	**-.00530**	**381.58**	**.00015**	**.00263**
Stddev	.00045	.0009	.00266	.0031	.00025	.00005	.00069	2.94	.00008	.00007
%RSD	76.613	.06715	91.926	.23004	.45557	205.74	12.999	.77021	50.976	2.4870
#1	.00090	1.3513	.00477	1.3404	.05575	-.00006	-.00579	383.66	.00010	.00267
#2	.00027	1.3525	.00101	1.3448	.05611	.00001	-.00481	379.50	.00021	.00258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**.00313**	**1.2025**	**1.5341**	**.03865**	**30.423**	**1.9046**	**.00206**	**95.555**	**.00976**
Stddev	.00010	.00034	.0006	.0436	.00047	.141	.0074	.00002	.514	.00020
%RSD	5.3399	11.022	.04858	2.8427	1.2279	.46293	.38917	.87843	.53843	2.0789
#1	.00181	.00288	1.2029	1.5650	.03831	30.323	1.8994	.00204	95.919	.00961
#2	.00196	.00337	1.2021	1.5033	.03899	30.522	1.9098	.00207	95.192	.00990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24361**	**-.00037**	**132.02**	**-.00205**	**.00190**	**16.238**	**-.00065**	**2.3097**	**-.00040**	**.03918**
Stddev	.00059	.00054	.48	.00019	.00135	.043	.00056	.0019	.00028	.00292
%RSD	.24370	146.35	.36080	9.2983	70.638	.26265	86.106	.08354	71.468	7.4423
#1	.24403	.00001	131.69	-.00218	.00095	16.268	-.00104	2.3110	-.00060	.04124
#2	.24319	-.00075	132.36	-.00191	.00286	16.208	-.00025	2.3083	-.00020	.03712
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.00229**	**.00339**	**.00752**	**.00197**
Stddev	.00086	.00296	.00021	.00014	.00212
%RSD	81.833	129.48	6.1066	1.8350	107.59
#1	-.00044	.00438	.00353	.00761	.00047
#2	-.00165	.00019	.00324	.00742	.00347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5057.7**	**65916.**	**4965.6**
Stddev	18.4	388.	32.9
%RSD	.36414	.58908	.66188
#1	5044.7	66190.	4942.3
#2	5070.8	65641.	4988.8

Sample Name: 280-24102-D-3-C Acquired: 12/28/2011 21:10:55 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.01343**	**.00268**	**.18547**	**.05807**	**-.00003**	**-.00513**	**233.59**	**-.00004**	**.00046**
Stddev	.00005	.00063	.00130	.00006	.00029	.00004	.00035	.23	.00001	.00005
%RSD	13.602	4.6610	48.294	.03501	.49298	151.26	6.8121	.09847	29.276	11.802
#1	-.00035	.01299	.00360	.18552	.05827	-.00005	-.00489	233.76	-.00003	.00042
#2	-.00043	.01387	.00177	.18542	.05787	.00000	-.00538	233.43	-.00005	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00117**	**.34655**	**2.4119**	**.03425**	**14.239**	**.76368**	**.00232**	**228.45**	**.00127**
Stddev	.00023	.00019	.00080	.0266	.00284	.009	.00186	.00020	.53	.00018
%RSD	699.95	16.221	.23022	1.1015	8.2823	.06117	.24371	8.5527	.23201	14.437
#1	-.00020	.00104	.34711	2.3932	.03224	14.233	.76236	.00218	228.82	.00140
#2	.00013	.00131	.34599	2.4307	.03625	14.245	.76499	.00246	228.07	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04131**	**-.00068**	**155.10**	**.00129**	**.00185**	**8.4893**	**-.00052**	**2.4454**	**.00062**	**.00150**
Stddev	.00239	.00040	.45	.00030	.00193	.0107	.00006	.0056	.00032	.00030
%RSD	5.7974	58.133	.29028	23.134	104.11	.12603	12.191	.22726	51.347	20.165
#1	.04301	-.00040	155.42	.00108	.00322	8.4969	-.00057	2.4493	.00040	.00129
#2	.03962	-.00096	154.78	.00150	.00049	8.4818	-.00048	2.4415	.00085	.00172
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00120**	**-.00573**	**.00013**	**.00387**	**.00107**
Stddev	.00065	.03735	.00040	.00071	.00038
%RSD	54.500	651.53	305.06	18.423	35.247
#1	-.00074	.02068	.00042	.00337	.00081
#2	-.00166	-.03214	-.00015	.00437	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5140.7**	**65756.**	**4936.9**
Stddev	15.5	47.	25.2
%RSD	.30209	.07175	.50966
#1	5151.7	65789.	4954.7
#2	5129.7	65722.	4919.1

Sample Name: 280-24102-C-4-A Acquired: 12/28/2011 21:13:25 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101347 6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.12104**	**.00335**	**.17484**	**.08673**	**-.00003**	**-.00716**	**197.97**	**.00002**	**.00266**
Stddev	.00027	.00074	.00232	.00044	.00057	.00001	.00082	.97	.00011	.00017
%RSD	178.77	.60867	69.148	.25068	.65245	24.475	11.454	.49232	484.68	6.4498
#1	.00034	.12157	.00499	.17453	.08633	-.00003	-.00658	197.28	.00010	.00278
#2	-.00004	.12052	.00171	.17515	.08713	-.00004	-.00774	198.66	-.00006	.00254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00135**	**3.5275**	**2.4771**	**.02961**	**13.149**	**.45330**	**.00434**	**175.27**	**.00377**
Stddev	.00020	.00012	.0284	.0109	.00087	.016	.00113	.00027	.85	.00010
%RSD	28.630	8.9132	.80380	.44064	2.9444	.12118	.24983	6.2742	.48707	2.5597
#1	.00085	.00127	3.5075	2.4694	.03022	13.138	.45250	.00415	174.67	.00383
#2	.00056	.00144	3.5476	2.4848	.02899	13.161	.45410	.00454	175.88	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06504**	**-.00069**	**81.976**	**-.00019**	**.00107**	**10.586**	**-.00023**	**1.5888**	**-.00049**	**.00586**
Stddev	.00066	.00101	.169	.00108	.00328	.051	.00032	.0074	.00109	.00015
%RSD	1.0079	145.08	.20568	556.79	306.15	.48547	142.28	.46599	220.05	2.5059
#1	.06458	-.00140	81.856	.00057	-.00125	10.549	.00000	1.5836	.00027	.00597
#2	.06550	.00002	82.095	-.00096	.00339	10.622	-.00046	1.5940	-.00126	.00576
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00834**	**.00058**	**.01434**	**.00106**
Stddev	.00068	.00331	.00056	.00042	.00107
%RSD	457.12	39.713	96.070	2.8968	100.80
#1	-.00063	.01068	.00019	.01463	.00182
#2	.00033	.00600	.00098	.01404	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5195.1**	**66810.**	**5005.3**
Stddev	9.1	58.	28.8
%RSD	.17611	.08738	.57488
#1	5188.7	66852.	5025.7
#2	5201.6	66769.	4985.0

Sample Name: CCVH-1190977 Acquired: 12/28/2011 21:15:55 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00358**	**49.603**	**.00009**	**.01292**	**.00035**	**-.00004**	**1.0346**	**.03793**	**-.00161**	**.00224**	**-.00008**	**-.00266**	**49.173**
Stddev	.00014	.372	.00073	.00044	.00001	.00006	.0005	.00357	.00012	.00010	.00002	.00022	.320
%RSD	4.0543	.75069	831.23	3.3753	2.1828	160.44	.05195	9.4118	7.3613	4.3390	19.409	8.2534	.65110
#1	.00347	49.866	.00061	.01323	.00034	-.00008	1.0342	.04046	-.00169	.00231	-.00007	-.00282	49.400
#2	.00368	49.339	-.00043	.01261	.00035	.00001	1.0350	.03541	-.00152	.00217	-.00009	-.00250	48.947
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19075**	**.00353**	**.02758**	**-.00071**	**-.00115**	**254.91**	**.00184**	**.00500**	**-.00029**	**5.4080**	**-.00324**	**-.00098**	**.00043**
Stddev	.00538	.00109	.00158	.00002	.00002	2.41	.00013	.00079	.00054	.0183	.00170	.00036	.00585
%RSD	2.8208	31.047	5.7341	3.4002	1.8065	.94454	6.9231	15.877	187.04	.33767	52.311	37.057	1373.5
#1	.19455	.00430	.02870	-.00069	-.00114	256.61	.00175	.00556	.00009	5.3951	-.00204	-.00124	.00456
#2	.18694	.00275	.02646	-.00073	-.00116	253.21	.00193	.00444	-.00067	5.4209	-.00444	-.00072	-.00371
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**.00073**	**5.0874**	**-.02399**	**.00237**	**10.407**	**.00540**	**.00210**	**-.11125**
Stddev	.00092	.00005	.0167	.00011	.00060	.015	.00020	.00032	.00122
%RSD	107.70	6.2537	.32740	.46345	25.410	.14251	3.7284	15.372	1.0980
#1	.00020	.00076	5.0992	-.02407	.00280	10.418	.00554	.00233	-.11038
#2	.00150	.00069	5.0757	-.02391	.00195	10.397	.00525	.00187	-.11211
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5455.1**	**69382.**	**5032.5**
Stddev	12.6	9.	33.9
%RSD	.23083	.01338	.67357
#1	5464.0	69375.	5008.5
#2	5446.2	69389.	5056.5

Sample Name: CCV-1190978 Acquired: 12/28/2011 21:18:24 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51858**	**.50906**	**1.0151**	**.52319**	**.51260**	**.48888**	**.00032**	**5.0652**	**.51301**	**.51846**	**.51492**	**.50572**	**2.4794**
Stddev	.00120	.00048	.0004	.00210	.00013	.00010	.00199	.0090	.00138	.00106	.00033	.00031	.0028
%RSD	.23153	.09351	.03560	.40192	.02461	.01960	616.76	.17718	.26952	.20376	.06372	.06052	.11309
#1	.51773	.50940	1.0149	.52171	.51269	.48881	.00173	5.0716	.51203	.51771	.51469	.50550	2.4814
#2	.51943	.50873	1.0154	.52468	.51251	.48894	-.00109	5.0589	.51399	.51920	.51515	.50593	2.4774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.259**	**1.0244**	**20.160**	**.50182**	**.51002**	**5.4224**	**.51617**	**1.0147**	**1.0298**	**.05316**	**1.0134**	**1.0099**	**4.8826**
Stddev	.054	.0020	.006	.00061	.00126	.0153	.00029	.0015	.0053	.00270	.0002	.0039	.0248
%RSD	.10713	.19367	.02768	.12150	.24683	.28189	.05671	.14524	.51653	5.0883	.02173	.38425	.50696
#1	50.297	1.0258	20.156	.50139	.50913	5.4332	.51596	1.0137	1.0260	.05125	1.0132	1.0127	4.8651
#2	50.221	1.0230	20.164	.50225	.51091	5.4116	.51638	1.0158	1.0336	.05507	1.0135	1.0072	4.9001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0127**	**.50171**	**-.00470**	**.50830**	**1.0536**	**-.00358**	**.51237**	**.50221**	**.50144**
Stddev	.0004	.00002	.00042	.00031	.0049	.00701	.00075	.00318	.00195
%RSD	.04099	.00475	8.8807	.06082	.46836	195.70	.14734	.63241	.38935
#1	1.0130	.50169	-.00440	.50808	1.0502	-.00853	.51184	.50445	.50282
#2	1.0124	.50173	-.00499	.50852	1.0571	.00137	.51291	.49996	.50006
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5561.9**	**71633.**	**5074.6**
Stddev	9.4	45.	33.0
%RSD	.16866	.06335	.65081
#1	5568.5	71601.	5097.9
#2	5555.2	71665.	5051.2

Sample Name: CCB Acquired: 12/28/2011 21:20:43 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	W **-.02435**	**.00202**	F **.01076**	**-.00028**	**-.00003**	**-.00249**	**.00344**	**.00012**	**-.00010**
Stddev	.00028	.00018	.00050	.00027	.00002	.00001	.00013	.00199	.00015	.00004
%RSD	88.900	.75968	24.752	2.5247	8.5213	34.093	5.3644	57.911	119.14	33.675
#1	.00051	-.02422	.00237	.01096	-.00026	-.00004	-.00240	.00485	.00002	-.00013
#2	.00012	-.02448	.00167	.01057	-.00030	-.00003	-.00259	.00203	.00023	-.00008
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00312						
Low Limit		-.01800		-.00312						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00010**	**.00025**	**.14868**	W **.00278**	**.00373**	**-.00014**	**.00043**	F **.42645**	**-.00007**
Stddev	.00008	.00009	.00021	.02091	.00140	.00054	.00001	.00013	.00226	.00005
%RSD	29.499	86.870	83.601	14.066	50.356	14.395	7.1026	29.488	.52883	75.986
#1	.00032	.00004	.00010	.13389	.00179	.00411	-.00014	.00034	.42805	-.00003
#2	.00021	.00016	.00040	.16347	.00377	.00335	-.00013	.00052	.42486	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					.00261				.10000	
Low Limit					-.00261				-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00141**	**-.00048**	**.04237**	W **.00410**	**.00187**	**-.00217**	**.00049**	**.00021**	**.00058**	**-.00005**
Stddev	.00139	.00001	.00078	.00179	.00108	.01238	.00014	.00009	.00065	.00025
%RSD	98.275	2.2349	1.8346	43.733	58.019	570.14	27.586	41.058	112.99	474.50
#1	-.00239	-.00049	.04292	.00283	.00110	.00658	.00040	.00015	.00012	-.00023
#2	-.00043	-.00048	.04182	.00537	.00264	-.01093	.00059	.00027	.00104	.00012
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00314						
Low Limit				-.00314						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.01389**	**-.00005**	**.00201**	**.00183**
Stddev	.00051	.00125	.00032	.00018	.00047
%RSD	147.66	9.0152	712.15	8.7643	25.647
#1	.00002	.01478	.00018	.00189	.00150
#2	-.00071	.01301	-.00028	.00214	.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5519.4**	**72108.**	**4986.7**
Stddev	10.1	8.	.6
%RSD	.18215	.01041	.01125
#1	5512.2	72113.	4987.1
#2	5526.5	72102.	4986.3

Sample Name: CCVL1192076 Acquired: 12/28/2011 21:23:17 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01100**	**.08579**	**.01508**	**.11238**	**.00999**	**.00093**	W **.12284**	**.20361**	**.00510**	**.01094**	**.01012**
Stddev	.00020	.00074	.00035	.00060	.00001	.00001	.00594	.00023	.00008	.00025	.00006
%RSD	1.8382	.86077	2.3323	.53672	.07514	1.0889	4.8327	.11183	1.5373	2.3264	.54585
#1	.01086	.08527	.01483	.11281	.00998	.00092	.11864	.20377	.00516	.01076	.01016
#2	.01114	.08631	.01533	.11195	.00999	.00093	.12704	.20345	.00505	.01112	.01009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							.10000				
Range							20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01588**	**.09775**	**3.0313**	F **.01364**	**.21231**	**.01000**	**.01967**	F **1.3460**	**.04259**	**2.9457**	**.00935**
Stddev	.00010	.00192	.0377	.00026	.00291	.00002	.00011	.0141	.00016	.0080	.00012
%RSD	.65425	1.9638	1.2450	1.8725	1.3696	.15389	.54310	1.0500	.36882	.27212	1.2427
#1	.01581	.09910	3.0580	.01346	.21026	.01001	.01975	1.3360	.04248	2.9514	.00944
#2	.01596	.09639	3.0046	.01382	.21437	.00999	.01959	1.3560	.04270	2.9401	.00927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				.01000				1.0000			
Range				30.000%				30.000%			

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03476**	**.00897**	**.01386**	**.48158**	**.10004**	**.01019**	**.01507**	**.00974**	**.01672**	**.06061**	**.01022**
Stddev	.00139	.00023	.00295	.01137	.00080	.00018	.00055	.00002	.00104	.01920	.00018
%RSD	3.9983	2.5687	21.293	2.3611	.79558	1.7511	3.6563	.23471	6.2147	31.671	1.7953
#1	.03574	.00880	.01594	.48962	.10060	.01007	.01468	.00976	.01746	.07419	.01009
#2	.03378	.00913	.01177	.47354	.09948	.01032	.01546	.00973	.01599	.04704	.01035
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02181**	**.01631**
Stddev	.00001	.00038
%RSD	.05149	2.3490
#1	.02180	.01604
#2	.02182	.01658
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5691.0**	**73728.**	**5078.9**
Stddev	.0	150.	15.9
%RSD	.00064	.20290	.31353
#1	5691.1	73834.	5090.1
#2	5691.0	73622.	5067.6

Sample Name: MB 280-101344/1-A Acquired: 12/28/2011 21:25:48 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101344 200.7

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	W **-.02224**	**-.00010**	F **.00849**	**-.00007**	**-.00001**	**-.00212**	**.00714**	**.00015**	**-.00019**
Stddev	.00031	.00023	.00043	.00018	.00001	.00006	.00112	.00075	.00003	.00012
%RSD	177.07	1.0437	409.99	2.1280	15.785	484.30	52.810	10.546	18.902	62.904
#1	-.00039	-.02208	-.00041	.00836	-.00006	.00003	-.00133	.00661	.00018	-.00027
#2	.00004	-.02241	.00020	.00862	-.00008	-.00005	-.00291	.00767	.00013	-.00010
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00343						
Low Limit		-.01800		-.00343						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00012**	**.01109**	**.07050**	W **.00266**	F **.02715**	W **.00038**	**-.00007**	F **.38998**	**-.00006**
Stddev	.00007	.00049	.00287	.00932	.00238	.00260	.00008	.00006	.00512	.00016
%RSD	87.972	400.42	25.895	13.215	89.452	9.5792	20.579	87.426	1.3132	281.59
#1	.00003	.00047	.01312	.06392	.00435	.02531	.00043	-.00011	.39360	.00006
#2	.00013	-.00022	.00906	.07709	.00098	.02899	.00032	-.00003	.38636	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Fail	Chk Warn	Chk Pass	Chk Fail	Chk Pass
High Limit					.00261	.02354	.00025		.20152	
Low Limit					-.00261	-.02354	-.00025		-.20152	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**-.00054**	**.06807**	**.00048**	**-.00147**	**-.00969**	**-.00013**	**.00009**	**.00006**	**-.00019**
Stddev	.00208	.00015	.00017	.00003	.00257	.00587	.00000	.00004	.00043	.00013
%RSD	322.25	28.076	.24304	7.2287	175.33	60.603	.09928	39.427	748.07	69.018
#1	.00082	-.00064	.06796	.00046	-.00328	-.01384	-.00013	.00007	.00036	-.00010
#2	-.00211	-.00043	.06819	.00051	.00035	-.00554	-.00013	.00012	-.00024	-.00028
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	W **.02004**	**-.00008**	**.00252**	**.00088**
Stddev	.00064	.00712	.00001	.00048	.00188
%RSD	116.75	35.547	15.868	18.996	213.78
#1	-.00010	.02508	-.00009	.00286	.00221
#2	-.00100	.01500	-.00007	.00218	-.00045
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit		.01610			
Low Limit		-.01610			

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5610.7**	**73234.**	**5056.9**
Stddev	.0	246.	7.9
%RSD	.00076	.33571	.15579
#1	5610.7	73060.	5062.4
#2	5610.6	73408.	5051.3

Sample Name: LCS 280-101344/2-A Acquired: 12/28/2011 21:28:20 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101344 200.7

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05463**	**1.9638**	**1.0074**	**.98208**	**2.0469**	**.04890**	**2.1850**	**49.495**	**.09681**	**.50299**
Stddev	.00031	.0073	.0013	.00254	.0018	.00016	.0056	.058	.00041	.00033
%RSD	.56163	.37345	.13063	.25842	.08555	.33171	.25550	.11619	.42281	.06587
#1	.05485	1.9586	1.0065	.98029	2.0481	.04901	2.1811	49.536	.09652	.50322
#2	.05442	1.9690	1.0083	.98388	2.0456	.04878	2.1890	49.455	.09710	.50276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20476**	**.24993**	**.98265**	**51.094**	**1.0407**	**48.796**	**.50167**	**1.0022**	**52.237**	**.50468**
Stddev	.00019	.00031	.00450	.108	.0007	.044	.00057	.0004	.115	.00101
%RSD	.09080	.12540	.45827	.21044	.06555	.09025	.11309	.04369	.21969	.19917
#1	.20489	.25015	.97946	51.170	1.0403	48.827	.50207	1.0019	52.319	.50539
#2	.20463	.24971	.98583	51.018	1.0412	48.765	.50127	1.0025	52.156	.50397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.167**	**.50633**	**.03451**	**.49224**	**1.9466**	**9.6339**	**1.9447**	**1.0114**	**1.0082**	**1.0079**
Stddev	.020	.00083	.00021	.00147	.0092	.0104	.0040	.0012	.0030	.0017
%RSD	.19685	.16457	.62183	.29847	.47071	.10789	.20779	.12281	.29942	.16744
#1	10.153	.50574	.03466	.49328	1.9402	9.6266	1.9419	1.0123	1.0103	1.0091
#2	10.181	.50691	.03436	.49121	1.9531	9.6413	1.9476	1.0106	1.0061	1.0067
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0044**	**2.1477**	**.52161**	**.49098**	**.48011**
Stddev	.0062	.0057	.00186	.00097	.00026
%RSD	.30679	.26380	.35677	.19743	.05367
#1	2.0000	2.1436	.52293	.49029	.48030
#2	2.0087	2.1517	.52029	.49166	.47993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5371.6**	**68998.**	**5027.4**
Stddev	1.9	21.	34.3
%RSD	.03485	.03105	.68145
#1	5370.3	69013.	5003.1
#2	5373.0	68983.	5051.6

Sample Name: 280-24077-B-1-A Acquired: 12/28/2011 21:30:36 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101344 200.7

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**2.1727**	**.00143**	**.01762**	**.03787**	**.00002**	**-.00299**	**61.013**	**.00091**	**.00097**
Stddev	.00054	.0012	.00233	.00029	.00022	.00002	.00100	.020	.00002	.00012
%RSD	1429.7	.05347	163.48	1.6292	.57646	109.19	33.547	.03317	2.1986	12.803
#1	.00042	2.1718	-.00022	.01782	.03772	.00001	-.00228	60.999	.00089	.00106
#2	-.00034	2.1735	.00308	.01742	.03803	.00004	-.00370	61.027	.00092	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00490**	**.00541**	**2.0763**	**1.6050**	**.00622**	**1.1764**	**.09744**	**.00130**	**1.1034**	**.00397**
Stddev	.00003	.00019	.0057	.0054	.00057	.0058	.00039	.00001	.0119	.00011
%RSD	.68114	3.5511	.27309	.33541	9.1398	.49431	.39535	.69766	1.0748	2.7738
#1	.00488	.00554	2.0803	1.6088	.00662	1.1723	.09717	.00130	1.1118	.00390
#2	.00492	.00527	2.0723	1.6012	.00581	1.1805	.09772	.00129	1.0950	.00405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08841**	**.00498**	**1.7612**	**.00080**	**-.00112**	**5.5540**	**.00127**	**.16593**	**.00083**	**.04846**
Stddev	.00117	.00105	.0006	.00034	.00086	.0068	.00009	.00040	.00119	.00227
%RSD	1.3236	21.119	.03251	41.730	76.267	.12225	7.0315	.24271	143.25	4.6808
#1	.08924	.00423	1.7616	.00057	-.00173	5.5588	.00133	.16622	-.00001	.04686
#2	.08758	.00572	1.7608	.00104	-.00052	5.5492	.00120	.16565	.00167	.05007
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00306**	**.00828**	**.08055**	**.00159**
Stddev	.00014	.01645	.00028	.00049	.00012
%RSD	28.339	538.29	3.3963	.61397	7.7915
#1	-.00039	.01469	.00808	.08020	.00150
#2	-.00058	-.00858	.00848	.08090	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5581.4**	**72224.**	**5104.6**
Stddev	12.5	273.	1.5
%RSD	.22461	.37767	.02905
#1	5572.5	72417.	5105.7
#2	5590.3	72031.	5103.6

Sample Name: sd 280-24077-B-1-A@5 Acquired: 12/28/2011 21:33:07 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101344 200.7

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.48356**	**.00287**	**.01001**	**.00782**	**.00000**	**.00148**	**12.365**	**.00017**	**.00022**
Stddev	.00017	.00026	.00125	.00009	.00005	.0000	.00017	.018	.00001	.00021
%RSD	104.67	.05442	43.427	.93193	.64029	2066.9	11.715	.14398	6.6132	98.825
#1	-.00004	.48375	.00376	.01008	.00779	-.00002	.00136	12.353	.00016	.00006
#2	-.00029	.48338	.00199	.00995	.00786	.00002	.00161	12.378	.00017	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00134**	**.00113**	**.42272**	**.39390**	**.00159**	**.24774**	**.01998**	**.00007**	**.45898**	**.00105**
Stddev	.00006	.00024	.00041	.00631	.00182	.00168	.00018	.00014	.00404	.00038
%RSD	4.8418	21.457	.09660	1.6012	114.86	.67735	.90517	192.27	.88086	36.471
#1	.00138	.00130	.42301	.38944	.00288	.24893	.02010	-.00003	.45612	.00078
#2	.00129	.00096	.42243	.39836	.00030	.24656	.01985	.00018	.46184	.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01695**	**.00191**	**.37099**	**.00000**	**-.00172**	**1.1645**	**.00046**	**.03384**	**-.00048**	**.01110**
Stddev	.00003	.00020	.00151	.00034	.00222	.0211	.00032	.00023	.00157	.00006
%RSD	.16643	10.739	.40789	30982.	129.13	1.8091	67.884	.67276	329.22	.51613
#1	.01697	.00176	.36992	.00024	-.00015	1.1496	.00069	.03367	-.00159	.01106
#2	.01693	.00205	.37206	-.00024	-.00329	1.1794	.00024	.03400	.00063	.01114
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.00644**	**.00188**	**.01872**	**.00146**
Stddev	.00000	.00372	.00022	.00038	.00041
%RSD	.09257	57.768	11.473	2.0047	27.889
#1	-.00076	.00907	.00203	.01898	.00174
#2	-.00076	.00381	.00173	.01845	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5651.1**	**73211.**	**5076.1**
Stddev	1.3	171.	1.7
%RSD	.02323	.23364	.03300
#1	5650.2	73090.	5074.9
#2	5652.0	73332.	5077.3

Sample Name: 280-24077-B-1-B MS Acquired: 12/28/2011 21:35:39 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101344 200.7

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05479**	**5.7619**	**1.0025**	**1.0117**	**2.0697**	**.04892**	**2.1722**	**109.02**	**.09699**	**.49365**
Stddev	.00050	.0131	.0041	.0019	.0027	.00014	.0045	.21	.00006	.00019
%RSD	.91444	.22747	.40453	.19076	.13258	.28200	.20710	.18928	.05687	.03785
#1	.05514	5.7712	1.0054	1.0103	2.0678	.04883	2.1754	108.87	.09695	.49378
#2	.05443	5.7526	.99962	1.0130	2.0716	.04902	2.1691	109.16	.09703	.49351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20781**	**.25519**	**3.3094**	**52.841**	**1.0428**	**49.032**	**.59382**	**1.0137**	**52.849**	**.49827**
Stddev	.00037	.00088	.0031	.069	.0051	.269	.00247	.0012	.098	.00026
%RSD	.17639	.34536	.09274	.13018	.49044	.54862	.41535	.11499	.18571	.05309
#1	.20807	.25582	3.3073	52.792	1.0392	49.222	.59556	1.0146	52.780	.49809
#2	.20755	.25457	3.3116	52.889	1.0464	48.842	.59208	1.0129	52.919	.49846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.249**	**.50196**	**1.8061**	**.50513**	**1.9336**	**17.936**	**1.9613**	**1.1696**	**1.0068**	**1.0728**
Stddev	.000	.00063	.0064	.00021	.0040	.050	.0015	.0020	.0050	.0059
%RSD	.00153	.12637	.35356	.04075	.20625	.27657	.07547	.16875	.49785	.55105
#1	10.248	.50151	1.8106	.50499	1.9364	17.901	1.9624	1.1682	1.0104	1.0770
#2	10.249	.50241	1.8016	.50528	1.9308	17.971	1.9603	1.1710	1.0033	1.0686
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9564**	**2.1366**	**.52790**	**.56138**	**.49199**
Stddev	.0014	.0018	.00336	.00303	.00206
%RSD	.07401	.08615	.63556	.53981	.41812
#1	1.9554	2.1379	.53027	.56352	.49054
#2	1.9574	2.1353	.52553	.55923	.49345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5405.0**	**69577.**	**5083.9**
Stddev	1.3	291.	.3
%RSD	.02326	.41760	.00493
#1	5405.9	69371.	5083.7
#2	5404.1	69782.	5084.0

Sample Name: 280-24077-B-1-C MSD Acquired: 12/28/2011 21:37:56 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101344 200.7

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05440**	**5.9605**	**1.0012**	**1.0112**	**2.0713**	**.04894**	**2.1679**	**108.96**	**.09655**	**.49168**
Stddev	.00012	.0363	.0019	.0026	.0028	.00008	.0036	.25	.00006	.00090
%RSD	.22254	.60928	.18596	.25486	.13712	.17150	.16540	.22891	.06314	.18217
#1	.05449	5.9862	1.0025	1.0130	2.0734	.04888	2.1705	109.14	.09660	.49231
#2	.05432	5.9349	.99986	1.0094	2.0693	.04900	2.1654	108.79	.09651	.49105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20727**	**.25516**	**3.4410**	**52.821**	**1.0368**	**49.046**	**.59331**	**1.0072**	**52.851**	**.49684**
Stddev	.00079	.00079	.0060	.205	.0017	.164	.00163	.0017	.047	.00142
%RSD	.38030	.30888	.17398	.38764	.15871	.33436	.27470	.17040	.08820	.28517
#1	.20783	.25460	3.4452	52.966	1.0380	48.930	.59215	1.0084	52.818	.49784
#2	.20671	.25572	3.4367	52.677	1.0356	49.162	.59446	1.0060	52.884	.49583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.226**	**.49912**	**1.8124**	**.50446**	**1.9415**	**18.374**	**1.9526**	**1.1685**	**1.0007**	**1.0678**
Stddev	.034	.00191	.0102	.00114	.0059	.031	.0048	.0010	.0008	.0011
%RSD	.33688	.38273	.56417	.22512	.30151	.16989	.24746	.08884	.08262	.10195
#1	10.251	.50047	1.8196	.50526	1.9456	18.396	1.9560	1.1693	1.0001	1.0670
#2	10.202	.49777	1.8052	.50366	1.9374	18.352	1.9492	1.1678	1.0013	1.0685
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9470**	**2.1194**	**.52626**	**.55951**	**.48840**
Stddev	.0062	.0263	.00264	.00239	.00573
%RSD	.32040	1.2399	.50239	.42629	1.1742
#1	1.9514	2.1008	.52439	.55782	.49246
#2	1.9426	2.1380	.52813	.56119	.48435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5438.0**	**69723.**	**5078.1**
Stddev	11.2	154.	21.8
%RSD	.20505	.22054	.42954
#1	5430.1	69832.	5062.6
#2	5445.9	69614.	5093.5

Sample Name: CCVH-1190977 Acquired: 12/28/2011 21:40:11 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00326**	**49.346**	**.00114**	**.01051**	**.00085**	**.00002**	**1.0269**	**.02383**	**-.00163**	**.00236**	**.00017**	**-.00158**	**49.254**
Stddev	.00020	.265	.00142	.00090	.00021	.00002	.0007	.00461	.00012	.00006	.00013	.00065	.170
%RSD	6.0086	.53748	124.15	8.5269	25.292	70.335	.06976	19.362	7.1303	2.6261	74.917	41.239	.34513
#1	.00313	49.159	.00014	.01115	.00100	.00004	1.0274	.02710	-.00171	.00241	.00008	-.00112	49.134
#2	.00340	49.534	.00215	.00988	.00070	.00001	1.0264	.02057	-.00155	.00232	.00026	-.00204	49.374
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15646**	**.00407**	**.02897**	**-.00067**	**-.00062**	**255.28**	**.00195**	**.00392**	**.00047**	**5.3329**	**-.00449**	**.00185**	**.01514**
Stddev	.05601	.00103	.00137	.00005	.00015	1.29	.00018	.00067	.00127	.0121	.00022	.00505	.01004
%RSD	35.796	25.256	4.7318	6.8722	24.821	.50593	9.2185	17.071	272.43	.22780	4.9392	273.16	66.330
#1	.11686	.00480	.02994	-.00064	-.00072	254.37	.00208	.00345	.00136	5.3415	-.00464	.00542	.02224
#2	.19606	.00334	.02800	-.00070	-.00051	256.19	.00183	.00440	-.00043	5.3244	-.00433	-.00172	.00804
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00136**	**.00061**	**5.0511**	**-.02409**	**.00248**	**10.326**	**.00499**	**.00201**	**-.10603**
Stddev	.00077	.00004	.0258	.00005	.00033	.039	.00009	.00059	.00152
%RSD	56.638	6.2763	.51104	.22297	13.404	.37365	1.8211	29.253	1.4364
#1	.00081	.00059	5.0329	-.02413	.00225	10.298	.00492	.00160	-.10495
#2	.00190	.00064	5.0694	-.02405	.00272	10.353	.00505	.00243	-.10711
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5504.8**	**69875.**	**5029.7**
Stddev	2.5	257.	37.8
%RSD	.04596	.36809	.75187
#1	5506.6	69693.	5056.5
#2	5503.0	70057.	5003.0

Sample Name: CCV-1190978 Acquired: 12/28/2011 21:42:40 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51062**	**.50563**	**1.0042**	**.51426**	**.50909**	**.48625**	**.00022**	**5.0255**	**.50767**	**.51405**	**.51099**	**.49910**	**2.4596**
Stddev	.00375	.00324	.0008	.00126	.00262	.00214	.00044	.0329	.00108	.00052	.00016	.00188	.0117
%RSD	.73369	.64156	.07499	.24569	.51367	.44054	204.02	.65451	.21272	.10208	.03225	.37650	.47632
#1	.51327	.50334	1.0047	.51337	.50724	.48473	.00053	5.0022	.50690	.51368	.51110	.50043	2.4513
#2	.50797	.50793	1.0037	.51515	.51094	.48776	-.00010	5.0487	.50843	.51442	.51087	.49777	2.4679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.165**	**1.0225**	**19.980**	**.49822**	**.50597**	**5.2603**	**.51271**	**.99618**	**1.0239**	**.02510**	**1.0022**	**1.0034**	**4.8611**
Stddev	.275	.0039	.046	.00092	.00037	.0280	.00055	.00032	.0011	.00039	.0008	.0074	.0518
%RSD	.54796	.38264	.23137	.18452	.07325	.53192	.10768	.03175	.10525	1.5401	.08069	.73864	1.0651
#1	49.971	1.0197	20.012	.49887	.50571	5.2405	.51232	.99640	1.0231	.02538	1.0016	.99816	4.8245
#2	50.359	1.0253	19.947	.49757	.50624	5.2801	.51311	.99596	1.0246	.02483	1.0027	1.0086	4.8977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0066**	**.49777**	**-.00572**	**.50358**	**1.0461**	**-.00204**	**.50766**	**.49890**	**.49956**
Stddev	.0013	.00276	.00168	.00149	.0009	.00209	.00051	.00082	.00164
%RSD	.13031	.55374	29.410	.29633	.08390	102.53	.10014	.16447	.32774
#1	1.0056	.49582	-.00453	.50463	1.0467	-.00056	.50802	.49832	.49841
#2	1.0075	.49971	-.00691	.50252	1.0455	-.00351	.50730	.49948	.50072
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5621.9**	**72218.**	**5078.1**
Stddev	4.8	84.	15.1
%RSD	.08478	.11611	.29771
#1	5625.2	72277.	5088.8
#2	5618.5	72159.	5067.4

Sample Name: CCB Acquired: 12/28/2011 21:44:59 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	W **-.02405**	**.00174**	F **.00819**	**-.00030**	**.00003**	**-.00233**	**.00605**	**.00005**	**-.00004**
Stddev	.00045	.00030	.00038	.00021	.00023	.00007	.00053	.00071	.00006	.00013
%RSD	92.502	1.2518	22.101	2.5591	78.406	247.05	22.667	11.757	125.50	326.87
#1	.00017	-.02384	.00201	.00804	-.00046	-.00002	-.00270	.00554	.00001	-.00013
#2	.00081	-.02427	.00147	.00834	-.00013	.00008	-.00195	.00655	.00009	.00005
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00312						
Low Limit		-.01800		-.00312						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00042**	**.00049**	**.08132**	W **.00400**	**.00526**	**-.00013**	**.00057**	F **.26517**	**.00017**
Stddev	.00004	.00007	.00118	.00778	.00050	.00139	.00006	.00012	.00294	.00019
%RSD	11.344	17.286	241.06	9.5702	12.446	26.485	49.077	21.663	1.1073	113.22
#1	.00035	.00037	-.00035	.07582	.00435	.00625	-.00009	.00066	.26725	.00031
#2	.00030	.00047	.00133	.08682	.00364	.00428	-.00018	.00048	.26310	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					.00261				.10000	
Low Limit					-.00261				-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00219**	**-.00096**	**.01758**	W **.00460**	**.00132**	**.00577**	**-.00027**	**.00022**	**.00053**	**-.00015**
Stddev	.00014	.00001	.00037	.00074	.00068	.00095	.00000	.00011	.00036	.00006
%RSD	6.3160	.53021	2.1115	16.040	51.290	16.396	1.8012	50.995	68.297	39.338
#1	-.00209	-.00096	.01784	.00512	.00084	.00510	-.00027	.00014	.00027	-.00019
#2	-.00229	-.00096	.01731	.00407	.00181	.00644	-.00026	.00029	.00078	-.00011
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00314						
Low Limit				-.00314						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.01275**	**-.00007**	**.00189**	W **.00276**
Stddev	.00061	.01226	.00015	.00026	.00043
%RSD	91.927	96.147	223.20	13.840	15.506
#1	-.00023	.00408	-.00017	.00171	.00246
#2	-.00110	.02142	.00004	.00208	.00306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
High Limit					.00238
Low Limit					-.00238

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5591.1**	**72752.**	**5015.8**
Stddev	8.4	327.	3.7
%RSD	.15100	.44893	.07399
#1	5585.2	72983.	5018.4
#2	5597.1	72521.	5013.2

Sample Name: CCVL1192076 Acquired: 12/28/2011 21:47:32 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01107**	**.09288**	W **.01849**	**.11298**	**.01078**	**.00093**	W **.12980**	**.21428**	**.00548**	**.01127**	**.01077**
Stddev	.00047	.00115	.00081	.00061	.00020	.00004	.00045	.00579	.00001	.00006	.00012
%RSD	4.2321	1.2328	4.3927	.53577	1.8817	4.2371	.34299	2.7042	.14073	.51537	1.1025
#1	.01140	.09208	.01906	.11341	.01093	.00090	.13011	.21838	.00549	.01123	.01068
#2	.01074	.09369	.01791	.11255	.01064	.00096	.12948	.21018	.00548	.01131	.01085
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.01500				.10000				
Range			20.000%				20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01649**	**.10262**	**3.1995**	F **.01542**	**.22224**	**.01063**	**.02073**	W **1.2991**	**.04490**	**3.0525**	**.00969**
Stddev	.00004	.00088	.0116	.00103	.00171	.00000	.00012	.0050	.00027	.0032	.00114
%RSD	.25407	.86093	.36359	6.7037	.77054	.02121	.56992	.38543	.61241	.10509	11.792
#1	.01652	.10200	3.2077	.01615	.22103	.01063	.02081	1.3026	.04470	3.0548	.00888
#2	.01646	.10325	3.1913	.01469	.22345	.01063	.02065	1.2955	.04509	3.0503	.01049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value				.01000				1.0000			
Range				30.000%				20.000%			

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01717**	**.00962**	**.01609**	**.49123**	**.10544**	**.01087**	**.01495**	**.01019**	**.01785**	F **.08697**	**.01031**
Stddev	.00475	.00091	.00133	.00630	.00019	.00018	.00186	.00013	.00034	.04101	.00031
%RSD	27.675	9.4480	8.2679	1.2835	.17873	1.6389	12.416	1.2935	1.9137	47.151	2.9706
#1	.02053	.01026	.01704	.48677	.10530	.01075	.01364	.01028	.01810	.11596	.01009
#2	.01381	.00897	.01515	.49569	.10557	.01100	.01626	.01010	.01761	.05797	.01053
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value										.06000	
Range										30.000%	

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02327**	**.01649**
Stddev	.00025	.00002
%RSD	1.0613	.11123
#1	.02345	.01648
#2	.02310	.01650
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5734.3**	**74449.**	**5141.4**
Stddev	2.8	7.	2.1
%RSD	.04966	.00985	.04168
#1	5732.2	74455.	5139.9
#2	5736.3	74444.	5142.9

Sample Name: 280-24077-B-2-A Acquired: 12/28/2011 21:50:04 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101344 200.7

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.64946**	**-.00005**	**.11027**	**.03286**	**-.00005**	**-.00469**	**30.741**	**.00088**	**.00039**
Stddev	.00006	.00012	.00207	.00008	.00017	.00005	.00159	.029	.00015	.00014
%RSD	65.662	.01814	4120.4	.06947	.51824	92.590	33.878	.09334	16.760	36.516
#1	.00013	.64938	.00141	.11032	.03298	-.00008	-.00356	30.761	.00078	.00029
#2	.00005	.64955	-.00152	.11021	.03274	-.00002	-.00581	30.721	.00098	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00129**	**.00830**	**.50704**	**4.4184**	**.00820**	**1.1191**	**.01271**	**.01877**	W **9.3756**	W **9.5603**
Stddev	.00003	.00002	.00155	.0186	.00129	.0048	.00005	.00006	.0332	.0596
%RSD	2.3199	.27957	.30499	.42179	15.781	.43212	.41149	.29729	.35418	.62328
#1	.00131	.00829	.50595	4.4315	.00728	1.1225	.01275	.01881	9.3990	9.6024
#2	.00127	.00832	.50813	4.4052	.00911	1.1156	.01267	.01873	9.3521	9.5182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn
High Limit									9.0000	500.00
Low Limit									-.50000	10.000

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00175**	**.18273**	**.00153**	**3.1097**	**.00273**	**.00154**	**6.8885**	**.00070**	**.10626**	**-.00014**
Stddev	.00007	.00071	.00011	.0032	.00015	.00046	.0165	.00038	.00008	.00043
%RSD	4.0314	.38860	6.8738	.10121	5.4992	29.833	.24027	54.384	.07226	314.79
#1	.00170	.18222	.00161	3.1119	.00283	.00187	6.9002	.00097	.10632	-.00044
#2	.00180	.18323	.00146	3.1075	.00262	.00122	6.8768	.00043	.10621	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01442**	**-.00127**	**.00646**	**.00455**	**.03854**	**.00206**
Stddev	.00010	.00028	.00410	.00023	.00025	.00051
%RSD	.67705	21.949	63.426	5.0355	.63937	24.677
#1	.01435	-.00107	.00936	.00472	.03836	.00242
#2	.01449	-.00147	.00356	.00439	.03871	.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5656.0**	**73448.**	**5198.5**
Stddev	2.7	237.	13.3
%RSD	.04725	.32204	.25592
#1	5654.1	73281.	5189.1
#2	5657.9	73615.	5207.9

Sample Name: 280-24089-E-1-A Acquired: 12/28/2011 21:52:35 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101344 200.7

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**1.5239**	**.00230**	**.03971**	**.11568**	**.00001**	**-.00234**	**39.760**	**.00006**	**.00067**
Stddev	.00017	.0085	.00010	.00018	.00044	.00007	.00048	.115	.00003	.00003
%RSD	121.72	.56035	4.2096	.46108	.38164	840.05	20.652	.28962	46.039	5.0246
#1	-.00026	1.5179	.00223	.03958	.11536	.00006	-.00268	39.679	.00009	.00065
#2	-.00002	1.5300	.00237	.03984	.11599	-.00004	-.00199	39.842	.00004	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00178**	**.00359**	**1.8405**	**1.7995**	**.01553**	**10.168**	**.05594**	**.00140**	**86.678**	**.00200**
Stddev	.00006	.00000	.0019	.0146	.00119	.010	.00004	.00018	.025	.00003
%RSD	3.4451	.10564	.10472	.81249	7.6599	.09924	.06366	13.173	.02930	1.2777
#1	.00182	.00359	1.8391	1.7892	.01637	10.161	.05596	.00127	86.696	.00202
#2	.00173	.00359	1.8418	1.8099	.01469	10.175	.05591	.00153	86.660	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02719**	**.00046**	**9.9000**	**.00063**	**-.00069**	**6.0798**	**.00036**	**.37933**	**.00048**	**.04201**
Stddev	.00099	.00159	.0018	.00059	.00065	.0522	.00059	.00113	.00026	.00218
%RSD	3.6587	348.16	.01853	94.230	94.518	.85845	162.58	.29701	55.272	5.1994
#1	.02789	.00158	9.8987	.00105	-.00023	6.0429	-.00005	.37853	.00067	.04047
#2	.02649	-.00067	9.9013	.00021	-.00115	6.1168	.00078	.38013	.00029	.04356
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.03642**	**.00372**	**.01234**	**.00134**
Stddev	.00077	.01985	.00011	.00011	.00097
%RSD	2486.4	54.511	2.9673	.89019	72.448
#1	.00058	.02238	.00364	.01227	.00065
#2	-.00052	.05045	.00380	.01242	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5519.2**	**71244.**	**5129.2**
Stddev	4.3	42.	11.4
%RSD	.07799	.05924	.22239
#1	5522.3	71274.	5137.3
#2	5516.2	71214.	5121.2

Sample Name: 280-24119-E-1-A Acquired: 12/28/2011 21:55:05 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101344 200.7

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	W **3.0060**	**.00156**	**.04260**	**.17859**	**.00016**	**-.00384**	**47.151**	**.00034**	**.00196**
Stddev	.00042	.0208	.00267	.00002	.00030	.00005	.00005	.135	.00005	.00013
%RSD	110.74	.69219	170.49	.05505	.16750	31.380	1.3355	.28682	15.681	6.6497
#1	-.00067	2.9913	.00345	.04258	.17837	.00013	-.00387	47.055	.00030	.00205
#2	-.00008	3.0207	-.00032	.04261	.17880	.00020	-.00380	47.247	.00037	.00187
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		500.00								
Low Limit		4.0000								

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00301**	**.01120**	**3.9643**	**2.2069**	**.02465**	**12.121**	**.13487**	**.00121**	**98.045**	**.00359**
Stddev	.00004	.00020	.0122	.0172	.00009	.040	.00039	.00002	.412	.00002
%RSD	1.4897	1.8043	.30815	.77996	.37593	.33304	.29004	1.7059	.41985	.63578
#1	.00298	.01105	3.9556	2.1947	.02459	12.149	.13515	.00119	97.754	.00360
#2	.00304	.01134	3.9729	2.2191	.02472	12.092	.13460	.00122	98.336	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07826**	**.00307**	**11.706**	**-.00003**	**.00038**	**7.8863**	**-.00020**	**.45714**	**.00045**	**.06352**
Stddev	.00303	.00220	.012	.00084	.00234	.0160	.00000	.00140	.00082	.00287
%RSD	3.8659	71.698	.09905	2458.2	616.48	.20281	1.2654	.30637	182.70	4.5219
#1	.08040	.00151	11.714	-.00063	.00204	7.8750	-.00020	.45615	-.00013	.06555
#2	.07612	.00462	11.697	.00056	-.00128	7.8976	-.00021	.45813	.00103	.06149
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.01866**	**.00623**	**.09126**	**.00249**
Stddev	.00056	.01497	.00022	.00068	.00163
%RSD	119.03	80.240	3.5317	.74475	65.492
#1	-.00007	.02925	.00638	.09078	.00365
#2	-.00087	.00807	.00607	.09174	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5497.4**	**70579.**	**5126.4**
Stddev	4.6	238.	27.8
%RSD	.08332	.33682	.54210
#1	5500.7	70411.	5146.0
#2	5494.2	70747.	5106.7

Sample Name: 280-24119-E-2-A Acquired: 12/28/2011 21:57:34 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101344 200.7

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.67861**	**.00329**	**.10821**	**1.8312**	**.00002**	**-.00284**	**9.4972**	**-.00002**	**.00094**
Stddev	.00021	.00060	.00146	.00042	.0104	.00004	.00142	.0551	.00002	.00021
%RSD	421.38	.08868	44.329	.38499	.56573	195.83	50.092	.58033	82.743	22.248
#1	-.00010	.67819	.00226	.10850	1.8239	-.00001	-.00183	9.4582	-.00001	.00108
#2	.00020	.67904	.00432	.10791	1.8385	.00005	-.00384	9.5362	-.00004	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40581**	**.10628**	**4.0120**	**6.4711**	**.12329**	**2.3888**	**.05752**	**.00892**	W **1208.5**	**.00455**
Stddev	.00013	.00072	.0177	.0333	.00001	.0112	.00010	.00020	5.3	.00020
%RSD	.03220	.67689	.44100	.51407	.00567	.46789	.17725	2.2209	.43789	4.4757
#1	.40572	.10577	3.9995	6.4476	.12329	2.3809	.05745	.00878	1204.7	.00469
#2	.40590	.10679	4.0245	6.4946	.12328	2.3967	.05759	.00906	1212.2	.00440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
High Limit									500.00	
Low Limit									10.000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12322**	**.04149**	**.27096**	**-.00484**	**-.00103**	**8.5642**	**-.00057**	**1.9078**	**-.00170**	**.01491**
Stddev	.00356	.00041	.00168	.00055	.00145	.0480	.00073	.0114	.00031	.00044
%RSD	2.8906	.99311	.61869	11.461	140.98	.56074	128.55	.59985	18.142	2.9674
#1	.12574	.04178	.27215	-.00445	.00000	8.5302	-.00005	1.8997	-.00192	.01460
#2	.12071	.04120	.26977	-.00523	-.00206	8.5981	-.00109	1.9159	-.00149	.01522
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.05020**	**-.00019**	**.02332**	**.00428**
Stddev	.00046	.00077	.00045	.00020	.00029
%RSD	130.55	1.5394	241.00	.85558	6.8763
#1	-.00003	.05075	.00013	.02318	.00448
#2	-.00068	.04966	-.00051	.02346	.00407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5067.7**	**63213.**	**5013.9**
Stddev	14.5	253.	6.6
%RSD	.28649	.39953	.13175
#1	5078.0	63392.	5018.6
#2	5057.4	63035.	5009.2

Sample Name: 280-24120-A-1-A Acquired: 12/28/2011 22:00:47 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101344 200.7

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.37438**	**.00250**	**.02559**	**.08247**	**-.00005**	**-.00279**	**42.678**	**.00007**	**.00005**
Stddev	.00019	.00327	.00200	.00009	.00049	.00003	.00076	.037	.00004	.00008
%RSD	68.408	.87264	79.989	.35814	.59412	54.464	27.140	.08734	55.888	175.21
#1	.00041	.37669	.00109	.02553	.08282	-.00003	-.00225	42.704	.00010	-.00001
#2	.00014	.37207	.00391	.02566	.08212	-.00007	-.00332	42.652	.00004	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**.00204**	**.27753**	**1.9427**	**.00539**	**4.7959**	**.00711**	**.00373**	**15.299**	**.00045**
Stddev	.00014	.00037	.00112	.0217	.00091	.0034	.00002	.00002	.405	.00014
%RSD	18.996	18.279	.40510	1.1147	16.940	.07018	.24744	.45283	2.6449	31.501
#1	.00066	.00178	.27674	1.9580	.00475	4.7983	.00710	.00374	15.012	.00035
#2	.00086	.00231	.27833	1.9274	.00604	4.7935	.00712	.00372	15.585	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01727**	**.00098**	**8.2781**	**-.00099**	**-.00152**	**2.8046**	**-.00098**	**.24009**	**.00003**	**.00906**
Stddev	.00094	.00145	.0116	.00056	.00224	.0073	.00064	.00015	.00021	.00031
%RSD	5.4510	148.43	.13966	55.879	147.33	.26196	64.543	.06118	805.17	3.4275
#1	.01794	.00200	8.2863	-.00139	.00006	2.7994	-.00053	.24020	.00017	.00884
#2	.01660	-.00005	8.2699	-.00060	-.00311	2.8098	-.00143	.23999	-.00012	.00928
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00146**	**.00121**	**.03233**	**.00168**
Stddev	.00128	.00550	.00055	.00039	.00008
%RSD	16239.	376.31	45.756	1.1965	5.0364
#1	-.00091	-.00243	.00160	.03260	.00174
#2	.00090	.00535	.00082	.03205	.00162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5463.3**	**71187.**	**5013.1**
Stddev	9.9	17.	3.6
%RSD	.18194	.02390	.07166
#1	5456.3	71175.	5015.6
#2	5470.3	71199.	5010.5

Sample Name: CCVH-1190977 Acquired: 12/28/2011 22:03:17 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00364**	**49.959**	**-.00117**	**.00705**	**.00038**	**.00005**	**1.0296**	**.00936**	**-.00163**	**.00218**	**.00004**	**-.00251**	**49.336**
Stddev	.00033	.107	.00162	.00005	.00010	.00009	.0023	.00102	.00013	.00028	.00005	.00007	.000
%RSD	9.1561	.21362	138.18	.72092	26.952	178.35	.22331	10.895	7.7750	12.639	126.63	2.9056	.00011
#1	.00388	49.883	-.00231	.00709	.00046	.00011	1.0280	.01008	-.00154	.00198	.00008	-.00256	49.336
#2	.00341	50.034	-.00003	.00702	.00031	-.00001	1.0313	.00864	-.00172	.00237	.00000	-.00246	49.336
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08256**	**.00391**	**.02647**	**-.00071**	**-.00121**	**255.89**	**.00180**	**.00330**	**.00074**	**5.3378**	**-.00461**	**-.00122**	**-.01001**
Stddev	.04002	.00257	.00023	.00002	.00044	.25	.00026	.00203	.00125	.0131	.00043	.00194	.00356
%RSD	48.468	65.638	.85984	3.1721	36.456	.09903	14.361	61.388	168.67	.24494	9.3600	158.56	35.583
#1	.11086	.00210	.02663	-.00069	-.00152	255.71	.00162	.00473	.00163	5.3285	-.00491	.00015	-.00749
#2	.05427	.00573	.02631	-.00072	-.00090	256.07	.00199	.00187	-.00014	5.3470	-.00430	-.00260	-.01253
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00041**	**5.0612**	**-.02419**	**.00228**	**10.329**	**.00509**	**.00227**	**-.10926**
Stddev	.00088	.00004	.0123	.00002	.00019	.008	.00011	.00026	.00054
%RSD	239.03	10.490	.24344	.08045	8.2697	.07456	2.1365	11.344	.49062
#1	.00099	.00038	5.0525	-.02421	.00215	10.324	.00517	.00246	-.10963
#2	-.00025	.00044	5.0699	-.02418	.00242	10.335	.00501	.00209	-.10888
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5454.0**	**69255.**	**4978.3**
Stddev	10.5	95.	6.8
%RSD	.19166	.13682	.13610
#1	5446.6	69322.	4973.5
#2	5461.4	69188.	4983.1

Sample Name: CCV-1190978 Acquired: 12/28/2011 22:05:45 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51620**	**.50685**	**1.0139**	**.51751**	**.51302**	**.49196**	**-.00113**	**5.0475**	**.51245**	**.51656**	**.51352**	**.50784**	**2.4733**
Stddev	.00057	.00114	.0020	.00113	.00006	.00084	.00019	.0077	.00079	.00058	.00105	.00179	.0050
%RSD	.11075	.22525	.19737	.21843	.01128	.17154	16.770	.15275	.15392	.11252	.20353	.35283	.20094
#1	.51579	.50605	1.0153	.51831	.51306	.49137	-.00126	5.0420	.51301	.51697	.51426	.50657	2.4698
#2	.51660	.50766	1.0124	.51672	.51298	.49256	-.00100	5.0529	.51189	.51614	.51278	.50911	2.4768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.490**	**1.0233**	**20.169**	**.50276**	**.50804**	**5.3744**	**.51518**	**1.0064**	**1.0293**	**.01367**	**1.0133**	**1.0162**	**4.8947**
Stddev	.131	.0011	.009	.00005	.00063	.0026	.00036	.0040	.0020	.00031	.0024	.0008	.0289
%RSD	.25869	.10311	.04338	.01017	.12422	.04843	.07074	.39323	.19662	2.2659	.23914	.07450	.59047
#1	50.398	1.0226	20.163	.50279	.50848	5.3726	.51544	1.0092	1.0307	.01345	1.0151	1.0168	4.8743
#2	50.583	1.0241	20.176	.50272	.50759	5.3762	.51492	1.0036	1.0278	.01389	1.0116	1.0157	4.9152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0123**	**.50389**	**-.00618**	**.50531**	**1.0566**	**.00685**	**.50898**	**.50025**	**.50133**
Stddev	.0014	.00024	.00072	.00000	.0014	.01619	.00066	.00073	.00162
%RSD	.13919	.04757	11.726	.00004	.12766	236.28	.12950	.14567	.32257
#1	1.0133	.50406	-.00669	.50531	1.0575	.01830	.50945	.50076	.50248
#2	1.0113	.50372	-.00567	.50531	1.0556	-.00460	.50852	.49973	.50019
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5591.9**	**71897.**	**5077.0**
Stddev	10.6	54.	28.8
%RSD	.18958	.07499	.56643
#1	5584.4	71859.	5097.3
#2	5599.3	71935.	5056.7

Sample Name: CCB Acquired: 12/28/2011 22:08:04 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	W **-.02439**	**.00192**	F **.00660**	**.00029**	**-.00002**	**-.00296**	**-.00175**	**-.00012**	**-.00001**
Stddev	.00067	.00027	.00091	.00036	.00011	.00002	.00028	.00029	.00001	.00009
%RSD	3417.6	1.1203	47.671	5.4426	35.702	81.052	9.4433	16.743	7.4533	907.11
#1	-.00045	-.02458	.00127	.00686	.00037	-.00003	-.00277	-.00195	-.00011	-.00007
#2	.00049	-.02420	.00256	.00635	.00022	-.00001	-.00316	-.00154	-.00012	.00005
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00312						
Low Limit		-.01800		-.00312						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00036**	**.00060**	**.05212**	W **.00425**	**-.00109**	**-.00010**	**.00051**	F **.31388**	**-.00005**
Stddev	.00004	.00036	.00100	.04044	.00150	.00025	.00002	.00011	.00601	.00000
%RSD	19.187	102.44	167.15	77.596	35.226	22.982	16.483	22.326	1.9156	8.8687
#1	.00018	.00010	-.00011	.08072	.00319	-.00091	-.00012	.00043	.30963	-.00006
#2	.00023	.00061	.00131	.02352	.00531	-.00127	-.00009	.00059	.31813	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					.00261				.10000	
Low Limit					-.00261				-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00037**	**.00994**	W **.00509**	**-.00004**	**-.01158**	**.00035**	**.00009**	**.00040**	**-.00002**
Stddev	.00146	.00088	.00129	.00184	.00098	.00196	.00015	.00006	.00031	.00004
%RSD	505.40	235.30	13.025	36.154	2734.9	16.937	42.269	70.469	77.988	174.51
#1	.00074	.00025	.01086	.00379	-.00073	-.01020	.00025	.00004	.00018	.00001
#2	-.00132	-.00099	.00903	.00639	.00066	-.01297	.00046	.00013	.00062	-.00005
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00314						
Low Limit				-.00314						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.01090**	**-.00015**	**.00129**	**-.00024**
Stddev	.00056	.02258	.00023	.00019	.00055
%RSD	96.973	207.05	150.57	15.005	227.81
#1	-.00018	.02687	-.00031	.00115	-.00063
#2	-.00097	-.00506	.00001	.00142	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5548.0**	**72577.**	**4981.1**
Stddev	2.6	233.	37.5
%RSD	.04637	.32148	.75264
#1	5549.8	72412.	5007.6
#2	5546.2	72742.	4954.6

Sample Name: CCVL1192076 Acquired: 12/28/2011 22:10:38 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01105**	**.09173**	**.01754**	**.11146**	**.01042**	**.00104**	W **.12794**	**.20632**	**.00545**	**.01106**	**.01065**
Stddev	.00028	.00062	.00061	.00048	.00032	.00001	.00124	.00387	.00000	.00009	.00009
%RSD	2.5604	.67767	3.4609	.42832	3.1001	1.3418	.97070	1.8771	.02163	.84950	.80501
#1	.01125	.09129	.01711	.11180	.01019	.00103	.12707	.20359	.00544	.01113	.01059
#2	.01085	.09217	.01797	.11113	.01065	.00105	.12882	.20906	.00545	.01100	.01072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							.10000				
Range							20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01649**	**.10174**	**3.1668**	F **.01653**	**.22123**	**.01050**	**.02024**	F **1.3154**	**.04459**	**3.0270**	**.00950**
Stddev	.00032	.00277	.0266	.00069	.00140	.00001	.00003	.0101	.00039	.0120	.00092
%RSD	1.9496	2.7197	.84055	4.1969	.63149	.05229	.14229	.76924	.88061	.39625	9.7244
#1	.01671	.09978	3.1856	.01604	.22222	.01050	.02026	1.3083	.04431	3.0185	.01015
#2	.01626	.10369	3.1479	.01702	.22024	.01049	.02022	1.3226	.04487	3.0355	.00885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				.01000				1.0000			
Range				30.000%				30.000%			

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00878**	**.00953**	**.01364**	**.48953**	**.10520**	**.01064**	**.01547**	**.01036**	**.01752**	W **.07579**	**.01030**
Stddev	.00185	.00109	.00148	.00176	.00006	.00004	.00164	.00032	.00019	.00076	.00011
%RSD	21.127	11.487	10.888	.35947	.05379	.42239	10.614	3.1308	1.0621	.99924	1.0484
#1	.00746	.00876	.01469	.48829	.10516	.01067	.01663	.01013	.01765	.07526	.01038
#2	.01009	.01031	.01259	.49078	.10524	.01061	.01431	.01059	.01739	.07633	.01023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value										.06000	
Range										20.000%	

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02312**	**.01646**
Stddev	.00018	.00051
%RSD	.76704	3.0841
#1	.02324	.01682
#2	.02299	.01610
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5692.4**	**73571.**	**5082.2**
Stddev	5.6	103.	14.0
%RSD	.09793	.14015	.27576
#1	5688.4	73498.	5092.1
#2	5696.3	73644.	5072.3

Sample Name: mb 280-100944/1-a Acquired: 12/28/2011 22:13:12 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**-.00524**	**.00225**	F **.01642**	**.00050**	**-.00005**	**-.00249**	W **.10832**	**.00011**	**-.00013**
Stddev	.00025	.00002	.00190	.00015	.00013	.00006	.00198	.00034	.00023	.00033
%RSD	40.631	.42333	84.352	.88943	26.418	120.33	79.436	.31055	198.68	250.98
#1	.00079	-.00522	.00091	.01652	.00041	-.00001	-.00109	.10856	.00028	-.00036
#2	.00044	-.00526	.00360	.01632	.00060	-.00009	-.00389	.10808	-.00005	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit				.01000				.10000		
Low Limit				-.01000				-.10000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00143**	F **.11206**	**.07048**	**.00333**	**.03537**	**.00099**	**.00018**	**.46875**	**.00025**
Stddev	.00007	.00014	.00027	.02245	.00078	.00042	.00000	.00014	.00751	.00009
%RSD	31.576	9.8718	.24499	31.859	23.264	1.1791	.32516	76.758	1.6011	35.037
#1	.00027	.00133	.11225	.08636	.00388	.03567	.00099	.00008	.47406	.00031
#2	.00017	.00153	.11186	.05460	.00279	.03508	.00100	.00028	.46344	.00018
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.10000							
Low Limit			-.10000							

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00295**	**-.00061**	**.04050**	**.00041**	**-.00054**	W **.05450**	**.00773**	**.00057**	**.00033**	**.00020**
Stddev	.00029	.00008	.00039	.00068	.00001	.00683	.00017	.00004	.00018	.00022
%RSD	9.7801	12.460	.96735	165.80	2.4708	12.538	2.2248	6.5820	55.046	107.93
#1	.00315	-.00066	.04022	-.00007	-.00054	.04967	.00785	.00059	.00020	.00005
#2	.00275	-.00056	.04078	.00090	-.00055	.05933	.00761	.00054	.00046	.00036
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						.05000				
Low Limit						-.05000				

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00122**	**.01064**	**-.00004**	**.00342**	**.00027**
Stddev	.00058	.00901	.00029	.00040	.00143
%RSD	47.445	84.675	708.25	11.638	521.39
#1	-.00163	.00427	-.00025	.00314	.00129
#2	-.00081	.01700	.00017	.00370	-.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5649.8**	**74076.**	**5095.7**
Stddev	8.0	19.	14.1
%RSD	.14136	.02544	.27755
#1	5655.4	74063.	5085.7
#2	5644.1	74090.	5105.7

Sample Name: lcs 280-100944/2-a Acquired: 12/28/2011 22:15:48 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05415**	**1.9522**	**.99125**	**1.0438**	**2.0350**	**.04857**	**2.1710**	**48.941**	**.09576**	**.49771**
Stddev	.00028	.0073	.00102	.0005	.0011	.00023	.0022	.047	.00000	.00032
%RSD	.52578	.37326	.10326	.05059	.05488	.47967	.09926	.09560	.00353	.06434
#1	.05395	1.9471	.99053	1.0435	2.0342	.04840	2.1694	48.974	.09577	.49748
#2	.05435	1.9574	.99197	1.0442	2.0357	.04873	2.1725	48.907	.09576	.49794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20244**	**.25093**	**.99270**	**50.840**	**1.0258**	**47.727**	**.49658**	**1.0066**	**52.473**	**.49961**
Stddev	.00024	.00048	.00055	.085	.0038	.045	.00080	.0010	.066	.00002
%RSD	.11661	.18950	.05515	.16790	.36955	.09533	.16167	.10033	.12663	.00456
#1	.20260	.25127	.99231	50.900	1.0231	47.695	.49602	1.0059	52.520	.49960
#2	.20227	.25059	.99308	50.779	1.0285	47.759	.49715	1.0074	52.426	.49963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.106**	**.49856**	**.04348**	**.48172**	**1.9154**	**1.8876**	**1.9548**	**1.0064**	**.98799**	**1.0123**
Stddev	.001	.00091	.00007	.00099	.0003	.0077	.0014	.0005	.00197	.0015
%RSD	.00505	.18173	.15581	.20546	.01796	.40761	.07117	.04711	.19898	.14918
#1	10.107	.49792	.04343	.48242	1.9156	1.8821	1.9538	1.0067	.98660	1.0112
#2	10.106	.49920	.04353	.48102	1.9151	1.8930	1.9558	1.0060	.98938	1.0134
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9861**	**2.1281**	**.51149**	**.47884**	**.48026**
Stddev	.0018	.0064	.00020	.00109	.00196
%RSD	.08894	.30168	.03840	.22775	.40906
#1	1.9848	2.1326	.51136	.47807	.48165
#2	1.9873	2.1235	.51163	.47962	.47887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5365.1**	**69554.**	**5016.4**
Stddev	3.9	107.	8.5
%RSD	.07232	.15359	.17010
#1	5367.9	69629.	5010.4
#2	5362.4	69478.	5022.5

Sample Name: 280-23965-a-21-b Acquired: 12/28/2011 22:18:07 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**83.674**	**.02850**	**.01920**	**.15698**	**.00188**	**-.00351**	**3.4009**	**.00005**	**.01833**
Stddev	.00037	.541	.00140	.00039	.00080	.00000	.00153	.0188	.00003	.00028
%RSD	103.38	.64656	4.9052	2.0464	.51208	.04720	43.649	.55415	60.116	1.5106
#1	-.00063	83.292	.02949	.01948	.15642	.00188	-.00243	3.3876	.00003	.01813
#2	-.00010	84.057	.02751	.01893	.15755	.00188	-.00460	3.4142	.00008	.01853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07931**	**.05508**	**62.010**	**3.0648**	**.06235**	**5.5702**	**.50028**	**.00405**	**.94755**	**.04827**
Stddev	.00058	.00005	.209	.0089	.00462	.0285	.00235	.00037	.01035	.00006
%RSD	.72533	.08281	.33776	.29207	7.4021	.51162	.47024	9.0507	1.0925	.12441
#1	.07972	.05511	61.862	3.0585	.06561	5.5501	.49862	.00379	.94023	.04823
#2	.07890	.05505	62.158	3.0712	.05909	5.5904	.50194	.00431	.95487	.04831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0891**	**.05258**	**1.1430**	**.00327**	**.00007**	**2.5256**	**.00363**	**.03047**	**.01310**	**1.1142**
Stddev	.0002	.00086	.0021	.00246	.00108	.0089	.00080	.00007	.00037	.0024
%RSD	.01840	1.6343	.17975	75.120	1598.6	.35421	21.952	.23194	2.8057	.21808
#1	1.0893	.05319	1.1416	.00153	.00083	2.5319	.00420	.03042	.01284	1.1125
#2	1.0890	.05198	1.1445	.00501	-.00069	2.5193	.00307	.03052	.01336	1.1159
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.04930**	**.11594**	**.15736**	**.01895**
Stddev	.00032	.00752	.00011	.00082	.00261
%RSD	77.746	15.243	.09865	.51978	13.799
#1	-.00064	.05462	.11586	.15678	.02080
#2	-.00019	.04399	.11602	.15794	.01710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5770.0**	**73133.**	**5224.8**
Stddev	11.3	140.	18.6
%RSD	.19622	.19080	.35666
#1	5761.9	73231.	5238.0
#2	5778.0	73034.	5211.6

Sample Name: 280-23965-a-22-d Acquired: 12/28/2011 22:20:36 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**72.001**	**.02260**	**.01635**	**.26958**	**.00159**	**-.00337**	**6.4440**	**.00011**	**.02173**
Stddev	.00027	.337	.00270	.00049	.00159	.00001	.00116	.0064	.00016	.00020
%RSD	77.604	.46759	11.946	2.9769	.58993	.86193	34.435	.09966	138.30	.90611
#1	-.00054	71.763	.02451	.01669	.26846	.00160	-.00255	6.4394	.00000	.02187
#2	-.00016	72.239	.02069	.01601	.27071	.00158	-.00419	6.4485	.00023	.02159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07156**	**.06403**	**59.907**	**3.4591**	**.05531**	**5.7070**	**.94064**	**.00282**	**.64899**	**.04211**
Stddev	.00007	.00017	.294	.0438	.00156	.0104	.00309	.00002	.00899	.00007
%RSD	.10441	.26950	.49049	1.2662	2.8222	.18272	.32841	.78867	1.3852	.16244
#1	.07151	.06390	59.700	3.4281	.05641	5.7144	.94283	.00283	.65534	.04206
#2	.07162	.06415	60.115	3.4900	.05420	5.6996	.93846	.00280	.64263	.04215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4795**	**.06650**	**.84293**	**-.00131**	**-.00105**	**2.6823**	**.00395**	**.04288**	**.01341**	**1.1071**
Stddev	.0001	.00021	.00654	.00101	.00083	.0308	.00075	.00013	.00197	.0062
%RSD	.00469	.32032	.77566	77.244	78.799	1.1498	18.889	.30563	14.672	.56165
#1	1.4794	.06635	.83830	-.00203	-.00046	2.7041	.00448	.04297	.01480	1.1115
#2	1.4795	.06665	.84755	-.00059	-.00163	2.6605	.00342	.04279	.01202	1.1027
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00088**	**.03566**	**.10986**	**.39092**	**.01734**
Stddev	.00055	.03288	.00159	.00258	.00098
%RSD	63.015	92.205	1.4502	.66023	5.6623
#1	-.00049	.01241	.11098	.39275	.01804
#2	-.00127	.05891	.10873	.38910	.01665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5749.6**	**73717.**	**5219.5**
Stddev	1.1	321.	18.1
%RSD	.01904	.43538	.34597
#1	5750.4	73490.	5232.3
#2	5748.9	73944.	5206.8

Sample Name: 280-23965-a-22-dSD@5 Acquired: 12/28/2011 22:23:02 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**15.536**	**.00431**	**.00788**	**.05798**	**.00033**	**-.00197**	**1.3842**	**.00011**	**.00468**
Stddev	.00032	.048	.00009	.00030	.00025	.00003	.00038	.0012	.00004	.00023
%RSD	394.94	.30881	2.1184	3.7848	.43976	7.5893	19.338	.08687	36.006	4.8307
#1	.00030	15.570	.00437	.00766	.05816	.00035	-.00224	1.3833	.00008	.00452
#2	-.00014	15.502	.00424	.00809	.05780	.00032	-.00170	1.3850	.00014	.00484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01559**	**.01365**	**12.713**	**.71587**	**.01495**	**1.2535**	**.19994**	**.00053**	**.28192**	**.00944**
Stddev	.00005	.00026	.007	.02661	.00279	.0008	.00038	.00004	.00303	.00000
%RSD	.34193	1.9362	.05549	3.7177	18.640	.06728	.19217	7.0279	1.0749	.00849
#1	.01555	.01347	12.708	.73469	.01298	1.2529	.19967	.00056	.28407	.00944
#2	.01563	.01384	12.718	.69705	.01692	1.2541	.20021	.00050	.27978	.00944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31593**	**.01375**	**.18970**	**-.00099**	**-.00157**	**.58508**	**.00142**	**.00920**	**.00416**	**.23456**
Stddev	.00314	.00002	.00045	.00047	.00270	.00187	.00069	.00001	.00083	.00019
%RSD	.99492	.11804	.23751	47.864	171.87	.32036	48.388	.07827	19.944	.08082
#1	.31371	.01376	.19002	-.00132	.00034	.58376	.00190	.00920	.00357	.23443
#2	.31815	.01374	.18938	-.00065	-.00348	.58641	.00093	.00921	.00475	.23470
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**-.00478**	**.02352**	**.08735**	**.00300**
Stddev	.00019	.00958	.00006	.00027	.00073
%RSD	21.504	200.24	.24525	.30798	24.337
#1	-.00100	-.01156	.02348	.08716	.00248
#2	-.00073	.00199	.02356	.08754	.00351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5686.7**	**73582.**	**5103.8**
Stddev	4.7	7.	4.7
%RSD	.08308	.00894	.09214
#1	5690.1	73586.	5100.5
#2	5683.4	73577.	5107.2

Sample Name: 280-23965-a-22-e ms Acquired: 12/28/2011 22:25:33 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05317**	**110.54**	**.98891**	**.96242**	**2.3908**	**.05020**	**2.1258**	**55.597**	**.09411**	**.50822**
Stddev	.00004	.22	.00149	.00146	.0019	.00003	.0008	.103	.00033	.00061
%RSD	.07925	.19983	.15032	.15144	.07920	.05440	.03675	.18596	.35404	.12072
#1	.05320	110.39	.98996	.96139	2.3895	.05022	2.1252	55.524	.09387	.50779
#2	.05314	110.70	.98786	.96345	2.3922	.05018	2.1263	55.670	.09434	.50866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29193**	**.31271**	**63.777**	**59.370**	**1.1131**	**54.807**	**1.3860**	**.96323**	**52.833**	**.53806**
Stddev	.00030	.00056	.010	.000	.0056	.091	.0029	.00068	.124	.00098
%RSD	.10235	.17797	.01631	.00032	.50731	.16607	.21202	.07105	.23408	.18238
#1	.29214	.31311	63.784	59.370	1.1171	54.743	1.3839	.96274	52.920	.53737
#2	.29172	.31232	63.769	59.370	1.1091	54.871	1.3881	.96371	52.745	.53876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.929**	**.54707**	**.81028**	**.32304**	**1.8607**	**5.9553**	**1.8422**	**1.0723**	**.96773**	**2.7671**
Stddev	.018	.00093	.00660	.00090	.0004	.0617	.0013	.0008	.00005	.0076
%RSD	.16751	.16982	.81485	.27774	.02166	1.0370	.07008	.07110	.00465	.27353
#1	10.942	.54642	.81495	.32368	1.8604	5.9116	1.8412	1.0728	.96769	2.7617
#2	10.916	.54773	.80561	.32241	1.8610	5.9989	1.8431	1.0717	.96776	2.7724
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8877**	**2.1424**	**.65474**	**.91576**	**.46867**
Stddev	.0029	.0252	.00102	.00198	.00191
%RSD	.15649	1.1765	.15569	.21611	.40814
#1	1.8898	2.1245	.65402	.91436	.46731
#2	1.8856	2.1602	.65546	.91716	.47002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5552.0**	**70569.**	**5138.9**
Stddev	6.6	206.	11.6
%RSD	.11947	.29224	.22524
#1	5556.7	70715.	5147.1
#2	5547.3	70424.	5130.7

Sample Name: 280-23965-a-22-f msd Acquired: 12/28/2011 22:27:49 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05244**	**126.10**	**.96923**	**.94173**	**2.4080**	**.04946**	**2.0757**	**55.592**	**.09239**	**.50374**
Stddev	.00013	.08	.00282	.00117	.0017	.00004	.0003	.070	.00003	.00041
%RSD	.25551	.06596	.29111	.12392	.07043	.07533	.01519	.12535	.03399	.08088
#1	.05253	126.16	.96724	.94090	2.4092	.04943	2.0759	55.642	.09237	.50345
#2	.05234	126.04	.97123	.94255	2.4068	.04949	2.0755	55.543	.09241	.50403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.30267**	**.31686**	**74.701**	**59.438**	**1.1035**	**55.108**	**1.5236**	**.93829**	**51.620**	**.53542**
Stddev	.00033	.00020	.023	.119	.0034	.135	.0037	.00240	.182	.00073
%RSD	.10964	.06231	.03100	.19945	.31053	.24547	.24075	.25550	.35333	.13706
#1	.30243	.31672	74.684	59.522	1.1059	55.203	1.5262	.93659	51.749	.53490
#2	.30290	.31700	74.717	59.354	1.1011	55.012	1.5210	.93998	51.491	.53594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.837**	**.54609**	**.86309**	**.28112**	**1.8200**	**5.5061**	**1.7932**	**1.0601**	**.95117**	**2.9416**
Stddev	.016	.00129	.00377	.00006	.0070	.0478	.0024	.0010	.00369	.0008
%RSD	.14322	.23582	.43648	.02199	.38477	.86871	.13283	.09589	.38762	.02895
#1	10.826	.54700	.86576	.28117	1.8150	5.4723	1.7915	1.0609	.95377	2.9422
#2	10.848	.54518	.86043	.28108	1.8249	5.5399	1.7948	1.0594	.94856	2.9410
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8424**	**2.0906**	**.66762**	**.92784**	**.45810**
Stddev	.0012	.0250	.00113	.00302	.00204
%RSD	.06634	1.1940	.16966	.32593	.44432
#1	1.8415	2.0730	.66842	.92998	.45666
#2	1.8433	2.1083	.66681	.92570	.45954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5584.5**	**70664.**	**5153.4**
Stddev	10.5	328.	17.8
%RSD	.18720	.46381	.34454
#1	5591.9	70432.	5140.9
#2	5577.1	70896.	5166.0

Sample Name: 280-23965-a-22-dPDS Acquired: 12/28/2011 22:30:07 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04761**	**71.197**	**.20725**	**.10832**	**.35923**	**.04765**	**-.00467**	**25.103**	**.04714**	**.06824**
Stddev	.00074	.200	.00109	.00022	.00108	.00012	.00151	.052	.00019	.00000
%RSD	1.5590	.28041	.52423	.20187	.29942	.25585	32.357	.20755	.39696	.00028
#1	.04709	71.056	.20648	.10847	.35847	.04774	-.00361	25.066	.04727	.06824
#2	.04814	71.338	.20802	.10816	.35999	.04757	-.00574	25.140	.04701	.06824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11689**	**.11048**	**59.403**	**22.580**	**.15274**	**23.922**	**.96503**	**.04990**	**20.682**	**.08755**
Stddev	.00022	.00007	.443	.014	.00153	.064	.00207	.00033	.410	.00003
%RSD	.18742	.06651	.74500	.06103	1.0032	.26909	.21422	.65750	1.9845	.03151
#1	.11674	.11043	59.090	22.571	.15382	23.877	.96357	.05013	20.972	.08757
#2	.11705	.11053	59.716	22.590	.15166	23.968	.96649	.04967	20.392	.08753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.2831**	**.15647**	**.83435**	**.09302**	**.18150**	**7.2345**	**.09563**	**.09142**	**.20640**	**1.1473**
Stddev	.0042	.00133	.00641	.00333	.00218	.0098	.00002	.00021	.00067	.0073
%RSD	.12789	.85008	.76849	3.5814	1.2018	.13565	.01723	.23518	.32272	.63433
#1	3.2860	.15553	.82982	.09066	.17996	7.2276	.09561	.09126	.20687	1.1422
#2	3.2801	.15741	.83889	.09538	.18304	7.2414	.09564	.09157	.20593	1.1525
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18860**	**.54499**	**.15831**	**.57089**	**.06434**
Stddev	.00017	.00757	.00010	.00235	.00186
%RSD	.09243	1.3885	.06250	.41168	2.8958
#1	.18872	.53964	.15838	.56923	.06302
#2	.18847	.55034	.15824	.57255	.06566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5695.5**	**72114.**	**5202.6**
Stddev	3.5	245.	7.0
%RSD	.06214	.33999	.13369
#1	5698.0	72287.	5207.5
#2	5693.0	71940.	5197.7

Sample Name: 280-23965-a-23-b Acquired: 12/28/2011 22:32:31 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**82.077**	**.01393**	**.06546**	**.15733**	**.00090**	**-.00334**	**2.3087**	**.00073**	**.00889**
Stddev	.00012	.024	.00068	.00028	.00044	.00001	.00101	.0069	.00010	.00005
%RSD	56.315	.02953	4.8817	.42994	.27894	1.2044	30.107	.29681	13.427	.58453
#1	.00013	82.094	.01345	.06526	.15764	.00089	-.00405	2.3135	.00066	.00893
#2	.00031	82.060	.01441	.06566	.15702	.00090	-.00263	2.3038	.00079	.00885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07635**	**.03377**	**20.212**	**5.5987**	**.08474**	**7.7173**	**.08925**	**.00327**	**31.054**	**.02832**
Stddev	.00002	.00010	.012	.0329	.00011	.0142	.00017	.00010	.015	.00046
%RSD	.03136	.29656	.06116	.58748	.12532	.18372	.19358	3.0804	.04983	1.6309
#1	.07636	.03384	20.220	5.5754	.08482	7.7273	.08937	.00334	31.043	.02865
#2	.07633	.03370	20.203	5.6219	.08467	7.7072	.08913	.00320	31.065	.02800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.36543**	**.06120**	**5.5214**	**.00028**	**-.00189**	**2.6997**	**.00468**	**.05266**	**.01829**	**1.0603**
Stddev	.00208	.00128	.0157	.00089	.00224	.0358	.00070	.00007	.00007	.0032
%RSD	.57013	2.0908	.28398	321.55	118.46	1.3261	15.034	.13068	.35700	.30202
#1	.36690	.06030	5.5325	-.00035	-.00348	2.6744	.00517	.05261	.01824	1.0625
#2	.36396	.06211	5.5103	.00090	-.00031	2.7250	.00418	.05271	.01833	1.0580
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.02560**	**.10235**	**1.0276**	**.03171**
Stddev	.00076	.02553	.00037	.0037	.00097
%RSD	63.105	99.732	.35715	.36183	3.0667
#1	.00175	.00755	.10261	1.0302	.03103
#2	.00067	.04365	.10209	1.0249	.03240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5667.2**	**71918.**	**5123.0**
Stddev	17.9	286.	9.0
%RSD	.31665	.39781	.17577
#1	5654.5	71715.	5129.4
#2	5679.9	72120.	5116.6

Sample Name: CCVH-1190977 Acquired: 12/28/2011 22:34:58 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00330**	**49.624**	**.00101**	**.00692**	**.00039**	**.00006**	**1.0280**	**.00553**	**-.00160**	**.00220**	**-.00019**	**-.00254**	**48.989**
Stddev	.00042	.234	.00209	.00004	.00007	.00004	.0007	.00142	.00014	.00005	.00013	.00010	.324
%RSD	12.860	.47218	207.97	.64452	18.090	68.584	.06469	25.687	8.7929	2.4248	71.430	3.7571	.66056
#1	.00300	49.458	-.00047	.00696	.00044	.00003	1.0285	.00653	-.00170	.00216	-.00028	-.00248	48.760
#2	.00360	49.790	.00249	.00689	.00034	.00008	1.0275	.00452	-.00150	.00224	-.00009	-.00261	49.218
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08939**	**.00486**	**.02546**	**-.00071**	**-.00133**	**255.15**	**.00179**	**.00312**	**.00057**	**5.3206**	**-.00394**	**.00160**	**-.00486**
Stddev	.00903	.00142	.00009	.00001	.00020	1.09	.00010	.00029	.00115	.0056	.00034	.00227	.01146
%RSD	10.097	29.176	.34901	.74347	15.002	.42901	5.6258	9.1545	203.32	.10596	8.6543	142.00	235.53
#1	.08301	.00386	.02540	-.00071	-.00147	254.37	.00186	.00332	.00138	5.3245	-.00369	.00321	.00324
#2	.09577	.00586	.02553	-.00070	-.00119	255.92	.00172	.00292	-.00025	5.3166	-.00418	-.00001	-.01296
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**.00033**	**5.0428**	**-.02395**	**.00199**	**10.330**	**.00499**	**.00237**	**-.10932**
Stddev	.00002	.00002	.0167	.00014	.00166	.014	.00059	.00039	.00325
%RSD	1.8819	6.6519	.33133	.59916	83.324	.13800	11.849	16.238	2.9735
#1	.00107	.00031	5.0310	-.02405	.00082	10.320	.00541	.00265	-.11162
#2	.00110	.00034	5.0546	-.02384	.00316	10.340	.00457	.00210	-.10702
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5442.4**	**69388.**	**4986.3**
Stddev	16.0	247.	31.0
%RSD	.29402	.35526	.62212
#1	5431.1	69562.	5008.3
#2	5453.8	69214.	4964.4

Sample Name: CCV-1190978 Acquired: 12/28/2011 22:37:26 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51733**	**.54431**	**1.0076**	**.51410**	**.51389**	**.48969**	**.00050**	**5.0280**	**.51055**	**.51537**	**.51315**	**.50478**	**2.4557**
Stddev	.00225	.01640	.0006	.00046	.00085	.00054	.00033	.0098	.00010	.00083	.00137	.00181	.0014
%RSD	.43408	3.0125	.05582	.08934	.16512	.10928	65.873	.19411	.01970	.16070	.26664	.35797	.05811
#1	.51892	.53272	1.0080	.51378	.51329	.48932	.00027	5.0211	.51048	.51478	.51219	.50606	2.4567
#2	.51575	.55591	1.0072	.51443	.51449	.49007	.00073	5.0349	.51062	.51595	.51412	.50350	2.4546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.228**	**1.0225**	**20.083**	**.50149**	**.50638**	**5.2368**	**.51275**	**1.0060**	**1.0245**	**.09507**	**1.0027**	**1.0043**	**4.8340**
Stddev	.047	.0048	.062	.00135	.00032	.0156	.00033	.0014	.0028	.01205	.0041	.0010	.0023
%RSD	.09418	.47216	.30908	.26924	.06401	.29867	.06409	.14118	.27194	12.678	.40485	.09774	.04728
#1	50.195	1.0191	20.127	.50244	.50615	5.2478	.51251	1.0071	1.0265	.08655	1.0056	1.0036	4.8324
#2	50.261	1.0260	20.039	.50053	.50661	5.2257	.51298	1.0050	1.0225	.10359	.99988	1.0050	4.8356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0064**	**.50027**	**-.00522**	**.50726**	**1.0475**	**-.00707**	**.51085**	**.50053**	**.50022**
Stddev	.0031	.00020	.00037	.00153	.0001	.02811	.00262	.00195	.00019
%RSD	.31131	.04078	7.1293	.30162	.01414	397.80	.51283	.39036	.03749
#1	1.0041	.50041	-.00548	.50834	1.0474	.01281	.51270	.50192	.50035
#2	1.0086	.50012	-.00496	.50617	1.0476	-.02694	.50900	.49915	.50009
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5540.4**	**71434.**	**5053.0**
Stddev	11.0	34.	7.8
%RSD	.19857	.04739	.15458
#1	5548.2	71410.	5058.5
#2	5532.6	71458.	5047.4

Sample Name: CCB Acquired: 12/28/2011 22:39:45 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**-.01150**	**.00215**	F **.00586**	**.00015**	**.00008**	**.00119**	**.02719**	**.00005**	**.00016**	**.00002**
Stddev	.00075	.00444	.00025	.00039	.00016	.00011	.00082	.00244	.00001	.00000	.00006
%RSD	126.54	38.613	11.759	6.6113	107.12	131.68	68.976	8.9649	23.115	2.2912	301.19
#1	.00112	-.00836	.00233	.00559	.00004	.00001	.00061	.02892	.00006	.00015	.00006
#2	.00006	-.01464	.00198	.00614	.00026	.00016	.00178	.02547	.00004	.00016	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00312							
Low Limit				-.00312							

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.01659**	**.04999**	W **.00436**	F **.05755**	F **.00058**	**.00050**	F **.25359**	**.00026**	**-.00082**	**-.00111**
Stddev	.00014	.00308	.02232	.00053	.01906	.00024	.00009	.00602	.00020	.00073	.00039
%RSD	29.475	18.572	44.649	12.066	33.112	41.936	18.375	2.3727	78.585	88.575	35.106
#1	.00055	.01877	.03421	.00473	.07102	.00076	.00044	.25784	.00041	-.00134	-.00139
#2	.00036	.01442	.06577	.00399	.04407	.00041	.00057	.24933	.00012	-.00031	-.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.00261	.02140	.00051		.10000			
Low Limit				-.00261	-.02140	-.00051		-.10000			

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02735**	W **.00469**	**.00084**	**-.00968**	**-.00011**	W **.00051**	**.00115**	W **.00076**	**.00030**	**.00488**	**.00028**
Stddev	.00933	.00144	.00131	.00168	.00004	.00003	.00002	.00027	.00012	.00019	.00064
%RSD	34.112	30.692	155.01	17.411	34.277	6.4041	2.0196	34.968	40.113	3.8098	229.01
#1	.03395	.00571	-.00008	-.00848	-.00008	.00048	.00113	.00057	.00021	.00475	-.00017
#2	.02075	.00367	.00177	-.01087	-.00014	.00053	.00116	.00095	.00038	.00501	.00073
Check ?	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit		.00314				.00030		.00060			
Low Limit		-.00314				-.00030		-.00060			

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.00196**	**.00124**
Stddev	.00040	.00150
%RSD	20.147	120.47
#1	.00224	.00018
#2	.00168	.00230
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5603.9**	**72911.**	**5016.1**
Stddev	11.6	76.	28.6
%RSD	.20782	.10369	.56990
#1	5612.1	72858.	5036.3
#2	5595.6	72965.	4995.8

Sample Name: CCVL1192076 Acquired: 12/28/2011 22:42:19 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01097**	**.08295**	**.01596**	**.10791**	**.01016**	**.00093**	W **.12030**	**.19550**	**.00514**	**.01070**	**.01036**
Stddev	.00022	.00047	.00001	.00083	.00010	.00008	.00004	.00073	.00005	.00011	.00000
%RSD	2.0198	.56962	.04874	.77067	1.0138	8.3386	.03696	.37523	1.0277	.99487	.03797
#1	.01082	.08328	.01595	.10850	.01008	.00088	.12033	.19498	.00511	.01077	.01036
#2	.01113	.08262	.01596	.10732	.01023	.00099	.12027	.19602	.00518	.01062	.01036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							.10000				
Range							20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01554**	**.09712**	**2.9181**	W **.01273**	**.20959**	**.00988**	**.01971**	**1.1576**	**.04226**	**2.9313**	**.00902**
Stddev	.00010	.00067	.0491	.00242	.00430	.00001	.00006	.0137	.00012	.0016	.00014
%RSD	.62913	.68993	1.6829	19.022	2.0532	.05220	.30368	1.1802	.28682	.05553	1.5107
#1	.01547	.09759	2.9528	.01102	.21263	.00987	.01975	1.1672	.04234	2.9324	.00892
#2	.01561	.09664	2.8834	.01444	.20654	.00988	.01967	1.1479	.04217	2.9301	.00912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				20.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00722**	**.00974**	**.01627**	**.46180**	**.10139**	**.01001**	**.01517**	**.00978**	**.01647**	**.07119**	**.00975**
Stddev	.00158	.00033	.00287	.01357	.00071	.00013	.00101	.00016	.00088	.01171	.00021
%RSD	21.855	3.3425	17.663	2.9388	.70230	1.2673	6.6713	1.6421	5.3322	16.448	2.1207
#1	.00610	.00997	.01831	.47139	.10189	.01010	.01589	.00967	.01709	.07947	.00990
#2	.00834	.00951	.01424	.45220	.10089	.00992	.01446	.00989	.01585	.06291	.00961
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02148**	**.01586**
Stddev	.00025	.00016
%RSD	1.1595	.98129
#1	.02131	.01575
#2	.02166	.01597
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5668.6**	**73726.**	**5081.6**
Stddev	1.8	303.	3.8
%RSD	.03183	.41133	.07443
#1	5667.3	73512.	5084.3
#2	5669.8	73940.	5078.9

Sample Name: 280-23965-a-24-b Acquired: 12/28/2011 22:44:50 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**82.537**	**.02806**	**.01758**	**.17259**	**.00190**	**-.00412**	**1.1590**	**-.00002**	**.01804**
Stddev	.00006	.443	.00105	.00014	.00052	.00001	.00009	.0017	.00014	.00012
%RSD	8.0701	.53650	3.7275	.78543	.30302	.41325	2.2509	.14250	642.13	.67882
#1	-.00081	82.224	.02880	.01768	.17222	.00190	-.00418	1.1579	-.00012	.01795
#2	-.00072	82.850	.02732	.01748	.17296	.00191	-.00405	1.1602	.00008	.01812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08167**	**.05360**	**61.579**	**3.0376**	**.06359**	**5.7094**	**.49383**	**.00383**	**.76015**	**.04673**
Stddev	.00024	.00010	.300	.0304	.00365	.0072	.00066	.00013	.00419	.00015
%RSD	.28845	.18369	.48755	.99980	5.7377	.12610	.13424	3.4223	.55150	.31846
#1	.08183	.05367	61.367	3.0161	.06617	5.7043	.49336	.00392	.76311	.04683
#2	.08150	.05353	61.792	3.0591	.06101	5.7145	.49430	.00373	.75718	.04662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0652**	**.05089**	**1.3200**	**-.00209**	**.00094**	**2.5246**	**.00394**	**.02218**	**.01374**	**1.1286**
Stddev	.0024	.00061	.0058	.00148	.00072	.0069	.00007	.00007	.00011	.0070
%RSD	.22820	1.1955	.44049	70.579	76.479	.27240	1.6750	.30960	.80933	.62155
#1	1.0669	.05046	1.3241	-.00314	.00043	2.5198	.00389	.02214	.01382	1.1236
#2	1.0635	.05132	1.3159	-.00105	.00145	2.5295	.00398	.02223	.01366	1.1335
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.03630**	**.11730**	**.14989**	**.01268**
Stddev	.00062	.00051	.00078	.00035	.00029
%RSD	806.46	1.4009	.66127	.23284	2.2984
#1	-.00052	.03666	.11675	.14964	.01288
#2	.00036	.03594	.11785	.15013	.01247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5785.4**	**73355.**	**5242.3**
Stddev	8.7	29.	34.0
%RSD	.14955	.03971	.64819
#1	5779.3	73334.	5266.4
#2	5791.5	73375.	5218.3

Sample Name: 280-23965-a-28-b Acquired: 12/28/2011 22:47:18 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**112.59**	**.01062**	**.08758**	**.25059**	**.00101**	**-.00888**	**2.0770**	**.00033**	**.01011**
Stddev	.00027	.02	.00032	.00056	.00066	.00003	.00301	.0006	.00002	.00011
%RSD	80.199	.01689	3.0324	.64210	.26404	2.5926	33.942	.02647	7.4055	1.0887
#1	-.00053	112.57	.01085	.08718	.25012	.00103	-.00675	2.0774	.00034	.01003
#2	-.00015	112.60	.01039	.08797	.25106	.00099	-.01101	2.0766	.00031	.01019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10324**	**.02068**	**23.402**	**7.0397**	**.13096**	**8.6832**	**.12932**	**.00217**	**23.556**	**.03390**
Stddev	.00005	.00006	.002	.0043	.00043	.0367	.00091	.00005	.059	.00023
%RSD	.04556	.30645	.00974	.06176	.32865	.42306	.70699	2.0979	.24977	.67994
#1	.10321	.02063	23.401	7.0366	.13127	8.7092	.12997	.00214	23.597	.03406
#2	.10328	.02072	23.404	7.0428	.13066	8.6572	.12867	.00220	23.514	.03374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29456**	**.05214**	**2.9155**	**-.00273**	**-.00134**	**2.7341**	**.00429**	**.05420**	**.02766**	**1.4108**
Stddev	.00070	.00005	.0111	.00043	.00090	.0288	.00016	.00008	.00002	.0066
%RSD	.23749	.08948	.37937	15.674	67.714	1.0530	3.7514	.15253	.06519	.46807
#1	.29406	.05211	2.9076	-.00243	-.00198	2.7137	.00440	.05426	.02768	1.4154
#2	.29505	.05217	2.9233	-.00304	-.00070	2.7544	.00417	.05414	.02765	1.4061
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00423**	**.10728**	**.22135**	**.04706**
Stddev	.0006	.00295	.00057	.00075	.00069
%RSD	70903.	69.816	.53528	.34036	1.4585
#1	-.00042	.00632	.10688	.22082	.04755
#2	.00042	.00214	.10769	.22188	.04658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5701.6**	**71603.**	**5178.9**
Stddev	4.1	75.	15.3
%RSD	.07157	.10534	.29464
#1	5698.8	71657.	5168.1
#2	5704.5	71550.	5189.7

Sample Name: 280-23965-a-29-b Acquired: 12/28/2011 22:49:48 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**45.278**	**.01483**	**.06859**	**.07991**	**.00097**	**-.00607**	**4.3335**	**.00020**	**.00492**
Stddev	.00030	.027	.00012	.00045	.00009	.00007	.00140	.0099	.00002	.00021
%RSD	140.03	.05944	.81421	.66231	.10720	7.2144	23.075	.22878	10.190	4.3360
#1	.00000	45.259	.01474	.06827	.07985	.00092	-.00706	4.3265	.00019	.00507
#2	-.00042	45.297	.01491	.06891	.07997	.00102	-.00508	4.3405	.00022	.00477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05175**	**.04929**	**18.411**	**4.3607**	**.09238**	**7.7555**	**.09078**	**.00468**	**27.478**	**.01815**
Stddev	.00005	.00014	.010	.0144	.00283	.0159	.00001	.00014	.359	.00004
%RSD	.10256	.27480	.05541	.32899	3.0592	.20431	.01170	2.8891	1.3071	.20546
#1	.05171	.04920	18.404	4.3505	.09038	7.7443	.09077	.00458	27.224	.01812
#2	.05179	.04939	18.418	4.3708	.09438	7.7667	.09079	.00477	27.732	.01818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.67253**	**.08322**	**6.5329**	**.00000**	**-.00208**	**2.7064**	**.00294**	**.08528**	**.01504**	**.72419**
Stddev	.00382	.00097	.0202	.00125	.00093	.0466	.00050	.00012	.00115	.00414
%RSD	.56746	1.1652	.30854	30682.	44.669	1.7213	16.864	.14166	7.6251	.57105
#1	.66983	.08391	6.5186	.00089	-.00142	2.6734	.00259	.08519	.01423	.72711
#2	.67523	.08254	6.5471	-.00088	-.00274	2.7393	.00329	.08536	.01585	.72127
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.00187**	**.07511**	**.31343**	**.01580**
Stddev	.00058	.01775	.00016	.00023	.00077
%RSD	78.511	950.73	.20681	.07282	4.8494
#1	-.00033	.01442	.07500	.31327	.01635
#2	-.00115	-.01069	.07522	.31359	.01526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5732.4**	**73554.**	**5210.6**
Stddev	13.6	25.	25.7
%RSD	.23653	.03332	.49255
#1	5742.0	73537.	5192.5
#2	5722.8	73571.	5228.8

Sample Name: 280-23965-a-30-b Acquired: 12/28/2011 22:52:16 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.00015**	**83.503**	k **.01767**	**.05484**	k **.20686**	k **.00123**	k **-.00831**	**2.2620**	k **.00036**	k **.01596**
Stddev	.00006	.458	.00097	.00036	.00079	.00002	.00229	.0129	.00006	.00013
%RSD	41.822	.54904	5.5117	.65834	.38386	1.2782	27.612	.56981	16.600	.82982
#1	k .00011	83.828	k .01836	.05510	k .20742	k .00125	k -.00669	2.2711	k .00041	k .01605
#2	k .00019	83.179	k .01698	.05459	k .20629	k .00122	k -.00993	2.2529	k .00032	k .01586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09334**	k **.03618**	k **44.347**	**6.4148**	**.08722**	k **9.1059**	**.15572**	**.00302**	**21.103**	**.03399**
Stddev	.00020	.00023	.007	.0505	.00067	.0028	.00013	.00014	.397	.00004
%RSD	.21880	.63787	.01564	.78802	.77324	.03033	.08041	4.6341	1.8800	.11248
#1	.09349	k .03602	k 44.342	6.4506	.08770	k 9.1039	.15581	.00292	20.822	.03396
#2	.09320	k .03634	k 44.352	6.3791	.08674	k 9.1078	.15564	.00312	21.383	.03401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39923**	k **.07961**	**4.4927**	k **-.00123**	k **-.00012**	**2.3644**	k **.00361**	**.05456**	k **.06425**	k **1.0060**
Stddev	.00084	.00061	.0038	.00008	.00053	.0297	.00092	.00027	.00054	.0013
%RSD	.20971	.76744	.08534	6.7211	436.08	1.2554	25.429	.48606	.84419	.12558
#1	.39983	k .08005	4.4954	k -.00117	k -.00050	2.3854	k .00425	.05475	k .06463	k 1.0069
#2	.39864	k .07918	4.4900	k -.00129	k .00025	2.3435	k .00296	.05437	k .06386	k 1.0051
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00073**	k **.01249**	k **.14821**	**.10482**	k **.04289**
Stddev	.00057	.01072	.00048	.00014	.00170
%RSD	77.197	85.838	.32420	.13237	3.9729
#1	k -.00033	k .02007	k .14855	.10472	k .04169
#2	k -.00113	k .00491	k .14787	.10491	k .04410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5753.4**	**73011.**	**5227.1**
Stddev	12.4	32.	15.0
%RSD	.21551	.04370	.28656
#1	5744.7	73034.	5216.5
#2	5762.2	72989.	5237.7

Sample Name: 280-23965-a-31-b Acquired: 12/28/2011 22:54:43 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**29.861**	**.01719**	**.11097**	**.02822**	**.00397**	**-.00345**	**8.4084**	**.00035**	**.02096**
Stddev	.00001	.040	.00294	.00010	.00020	.00007	.00239	.0094	.00012	.00005
%RSD	10.472	.13415	17.106	.09051	.69795	1.6537	69.319	.11127	32.659	.22988
#1	.00010	29.889	.01512	.11104	.02836	.00402	-.00514	8.4018	.00027	.02092
#2	.00012	29.833	.01927	.11090	.02808	.00393	-.00176	8.4150	.00044	.02099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03373**	**.03782**	**17.787**	**5.0893**	**.09120**	**12.623**	**.05063**	**.01796**	**73.822**	**.04209**
Stddev	.00021	.00072	.025	.0089	.00230	.091	.00037	.00027	.142	.00012
%RSD	.63509	1.9015	.13868	.17497	2.5200	.72350	.72845	1.5098	.19193	.27328
#1	.03388	.03833	17.770	5.0830	.08957	12.687	.05089	.01777	73.922	.04201
#2	.03358	.03731	17.805	5.0956	.09282	12.558	.05036	.01815	73.722	.04217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2945**	**.01409**	**45.623**	**-.00139**	**.00309**	**1.7780**	**.00229**	**.16039**	**.00303**	**.56305**
Stddev	.0009	.00106	.015	.00099	.00203	.0405	.00088	.00005	.00000	.00333
%RSD	.07209	7.5122	.03317	70.841	65.735	2.2791	38.280	.03237	.15824	.59182
#1	1.2939	.01334	45.633	-.00209	.00453	1.8067	.00292	.16036	.00303	.56540
#2	1.2952	.01484	45.612	-.00070	.00166	1.7494	.00167	.16043	.00303	.56069
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**.00426**	**.04717**	**2.3146**	**.01047**
Stddev	.00006	.00804	.00057	.0186	.00082
%RSD	5.3640	188.70	1.2004	.80473	7.8414
#1	-.00113	-.00143	.04757	2.3277	.01105
#2	-.00122	.00995	.04677	2.3014	.00989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5742.4**	**73988.**	**5300.9**
Stddev	2.3	482.	27.2
%RSD	.03943	.65147	.51349
#1	5740.8	73647.	5281.7
#2	5744.0	74328.	5320.2

Sample Name: 280-23965-a-32-b Acquired: 12/28/2011 22:57:11 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**169.98**	**.01587**	**.07357**	**.35813**	**.00246**	**-.00903**	**2.3966**	**.00019**	**.01345**
Stddev	.00015	.26	.00065	.00022	.00046	.00004	.00055	.0133	.00010	.00000
%RSD	60.495	.15226	4.0869	.29597	.12942	1.5683	6.0750	.55287	50.580	.02777
#1	-.00035	170.17	.01541	.07341	.35846	.00248	-.00864	2.4060	.00026	.01345
#2	-.00014	169.80	.01633	.07372	.35780	.00243	-.00942	2.3873	.00012	.01345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14772**	**.04629**	**30.865**	**10.017**	**.11442**	**9.6844**	**.10682**	**.00458**	**24.821**	**.04647**
Stddev	.00007	.00020	.056	.007	.00097	.0240	.00008	.00007	.163	.00034
%RSD	.04670	.43814	.18049	.07397	.85134	.24796	.07314	1.5638	.65647	.72356
#1	.14777	.04615	30.904	10.012	.11511	9.6674	.10687	.00463	24.936	.04623
#2	.14768	.04644	30.825	10.022	.11373	9.7014	.10676	.00453	24.706	.04670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40006**	**.07965**	**6.3759**	**-.00165**	**-.00364**	**2.5729**	**.00504**	**.06215**	**.03579**	**1.9109**
Stddev	.00152	.00074	.0142	.00022	.00557	.0196	.00020	.00014	.00071	.0019
%RSD	.37925	.92822	.22314	13.626	153.25	.76246	3.9862	.22886	1.9922	.09699
#1	.39898	.08018	6.3659	-.00181	.00030	2.5868	.00490	.06205	.03529	1.9096
#2	.40113	.07913	6.3860	-.00149	-.00758	2.5590	.00518	.06225	.03630	1.9122
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00123**	**-.00632**	**.17802**	**.15024**	**.06564**
Stddev	.00086	.01766	.00020	.00023	.00177
%RSD	69.893	279.52	.11506	.15492	2.6897
#1	.00062	-.01880	.17788	.15007	.06689
#2	.00184	.00617	.17816	.15040	.06439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5762.0**	**71759.**	**5255.2**
Stddev	5.6	105.	1.4
%RSD	.09765	.14562	.02653
#1	5766.0	71832.	5256.2
#2	5758.0	71685.	5254.2

Sample Name: CCVH-1190977 Acquired: 12/28/2011 22:59:38 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00309**	**49.450**	**-.00099**	**.00621**	**.00069**	**.00006**	**1.0210**	**.00394**	**-.00165**	**.00216**	**.00003**	**-.00295**	**48.833**
Stddev	.00050	.126	.00096	.00064	.00005	.00001	.0005	.00282	.00004	.00029	.00007	.00029	.216
%RSD	16.061	.25399	96.480	10.338	7.8004	12.417	.05042	71.745	2.4901	13.494	240.78	9.9818	.44156
#1	.00344	49.539	-.00167	.00666	.00073	.00005	1.0207	.00194	-.00168	.00196	-.00002	-.00316	48.985
#2	.00274	49.361	-.00031	.00576	.00065	.00006	1.0214	.00593	-.00162	.00237	.00008	-.00274	48.680
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07353**	**.00456**	**.02922**	**-.00074**	**-.00115**	**256.15**	**.00167**	**.00411**	**-.00019**	**5.2745**	**-.00499**	**.00240**	**.00039**
Stddev	.02155	.00126	.00111	.00000	.00020	1.10	.00005	.00171	.00048	.0058	.00044	.00148	.00035
%RSD	29.312	27.565	3.8076	.09103	17.791	.42779	2.6927	41.665	254.63	.10991	8.7936	61.821	88.724
#1	.05829	.00545	.03000	-.00075	-.00130	256.92	.00164	.00290	.00015	5.2786	-.00530	.00345	.00015
#2	.08877	.00367	.02843	-.00074	-.00101	255.37	.00171	.00532	-.00053	5.2704	-.00468	.00135	.00064
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00046**	**5.0581**	**-.02355**	**.00230**	**10.347**	**.00512**	**.00222**	**-.10986**
Stddev	.00048	.00001	.0069	.00002	.00172	.011	.00038	.00009	.00141
%RSD	86.337	2.8976	.13612	.10219	74.781	.10264	7.3414	4.0680	1.2876
#1	.00089	.00047	5.0629	-.02354	.00352	10.354	.00486	.00228	-.10886
#2	.00021	.00045	5.0532	-.02357	.00108	10.339	.00539	.00215	-.11086
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5450.8**	**69319.**	**4955.1**
Stddev	.1	10.	5.6
%RSD	.00107	.01433	.11323
#1	5450.8	69326.	4959.1
#2	5450.7	69312.	4951.1

Sample Name: CCV-1190978 Acquired: 12/28/2011 23:02:09 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52002**	**.50261**	**1.0038**	**.51344**	**.51457**	**.48675**	**.00132**	**5.0666**	**.51127**	**.51612**	**.51311**	**.50104**	**2.4494**
Stddev	.00089	.00153	.0014	.00043	.00186	.00173	.00001	.0114	.00006	.00092	.00023	.00066	.0101
%RSD	.17140	.30402	.13413	.08308	.36192	.35536	.60453	.22431	.01076	.17770	.04523	.13117	.41219
#1	.51939	.50153	1.0047	.51374	.51325	.48552	.00132	5.0586	.51123	.51677	.51327	.50057	2.4423
#2	.52065	.50369	1.0028	.51313	.51589	.48797	.00131	5.0746	.51130	.51547	.51294	.50150	2.4566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.103**	**1.0287**	**19.911**	**.49771**	**.50583**	**5.2053**	**.51021**	**1.0023**	**1.0224**	**.01064**	**1.0027**	**.99758**	**4.8626**
Stddev	.062	.0025	.015	.00049	.00021	.0255	.00082	.0019	.0012	.00128	.0004	.00248	.0041
%RSD	.12283	.24385	.07740	.09939	.04145	.49043	.16053	.18634	.11602	12.065	.03994	.24905	.08518
#1	50.059	1.0270	19.900	.49736	.50598	5.1872	.51079	1.0009	1.0233	.00973	1.0030	.99582	4.8655
#2	50.146	1.0305	19.922	.49806	.50568	5.2233	.50964	1.0036	1.0216	.01155	1.0025	.99933	4.8597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99887**	**.49761**	**-.00602**	**.50933**	**1.0492**	**-.00273**	**.51298**	**.49855**	**.50165**
Stddev	.00275	.00187	.00024	.00067	.0008	.01357	.00122	.00009	.00261
%RSD	.27557	.37482	3.9730	.13204	.07658	497.10	.23698	.01819	.52010
#1	.99692	.49629	-.00585	.50886	1.0498	-.01232	.51212	.49848	.49981
#2	1.0008	.49893	-.00619	.50981	1.0486	.00686	.51384	.49861	.50350
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5568.2**	**71569.**	**5041.9**
Stddev	.7	115.	24.2
%RSD	.01336	.16108	.48005
#1	5568.7	71487.	5059.1
#2	5567.6	71650.	5024.8

Sample Name: CCB Acquired: 12/28/2011 23:04:28 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	W **-.02105**	**.00227**	F **.00478**	**.00014**	**-.00007**	**.00003**	**-.00601**	**.00004**	**.00004**	**-.00008**
Stddev	.00033	.00017	.00083	.00003	.00022	.00001	.00058	.00108	.00007	.00004	.00003
%RSD	114.40	.82413	36.607	.57486	160.00	13.192	1908.6	17.987	188.67	103.97	33.345
#1	.00006	-.02117	.00168	.00476	.00029	-.00006	-.00038	-.00525	-.00001	.00001	-.00010
#2	.00053	-.02093	.00286	.00480	-.00002	-.00007	.00044	-.00678	.00009	.00006	-.00006
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00312							
Low Limit		-.01800		-.00312							

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00054**	**.03942**	F **.00562**	**-.00021**	**-.00019**	**.00047**	F **.15777**	**.00018**	**-.00178**	**-.00132**
Stddev	.00026	.00042	.05408	.00070	.00072	.00002	.00025	.00579	.00015	.00130	.00047
%RSD	155.78	77.742	137.19	12.376	342.51	12.189	52.744	3.6710	87.841	72.734	35.679
#1	-.00035	-.00083	.07767	.00513	.00030	-.00017	.00029	.16187	.00029	-.00270	-.00166
#2	.00002	-.00024	.00118	.00612	-.00072	-.00021	.00064	.15368	.00007	-.00087	-.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.00522				.10000			
Low Limit				-.00522				-.10000			

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00789**	W **.00520**	**-.00254**	**-.00096**	**-.00028**	**.00005**	**-.00040**	**.00010**	**-.00005**	**.02931**	**.00035**
Stddev	.00112	.00005	.00269	.00452	.00040	.00002	.00099	.00009	.00073	.00576	.00031
%RSD	14.129	1.0044	105.72	469.66	142.07	29.012	246.79	81.903	1427.2	19.650	87.818
#1	.00711	.00524	-.00444	-.00416	-.00057	.00006	-.00110	.00017	-.00057	.03338	.00013
#2	.00868	.00517	-.00064	.00223	.00000	.00004	.00030	.00004	.00047	.02523	.00057
Check ?	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.00314									
Low Limit		-.00314									

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.00164**	**.00056**
Stddev	.00010	.00143
%RSD	6.1201	254.34
#1	.00171	.00157
#2	.00157	-.00045
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5603.8**	**72921.**	**5053.6**
Stddev	11.6	53.	16.2
%RSD	.20740	.07328	.32139
#1	5612.0	72959.	5042.1
#2	5595.5	72883.	5065.1

Sample Name: CCVL1192076 Acquired: 12/28/2011 23:07:02 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01101**	**.08660**	**.01551**	**.10709**	**.00998**	**.00092**	W **.12056**	**.19486**	**.00506**	**.01067**	**.01027**
Stddev	.00048	.00027	.00261	.00037	.00018	.00001	.00018	.00124	.00007	.00002	.00015
%RSD	4.3907	.30983	16.832	.34646	1.8001	1.4660	.14693	.63590	1.4157	.19907	1.4475
#1	.01067	.08641	.01735	.10735	.00985	.00091	.12044	.19574	.00511	.01068	.01038
#2	.01136	.08679	.01366	.10683	.01011	.00093	.12069	.19399	.00501	.01065	.01017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							.10000				
Range							20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01515**	**.09473**	**2.9137**	W **.01274**	**.20600**	**.00985**	**.01993**	**1.1300**	**.04227**	**2.9399**	**.01001**
Stddev	.00029	.00118	.0146	.00032	.00023	.00003	.00005	.0092	.00004	.0154	.00028
%RSD	1.9395	1.2404	.50037	2.5425	.11220	.29406	.23736	.81606	.09302	.52266	2.8064
#1	.01535	.09390	2.9240	.01297	.20616	.00987	.01990	1.1365	.04230	2.9290	.01021
#2	.01494	.09556	2.9034	.01251	.20584	.00983	.01997	1.1235	.04224	2.9507	.00981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				20.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00822**	**.00983**	**.01513**	**.47236**	**.10030**	**.00994**	**.01406**	**.01010**	**.01542**	W **.07348**	**.00958**
Stddev	.00179	.00046	.00064	.01964	.00075	.00009	.00108	.00003	.00045	.01582	.00006
%RSD	21.752	4.6518	4.2345	4.1569	.74946	.95186	7.6636	.32346	2.9239	21.532	.57845
#1	.00949	.00950	.01468	.45847	.10084	.01001	.01482	.01008	.01574	.06229	.00962
#2	.00696	.01015	.01559	.48624	.09977	.00987	.01330	.01012	.01510	.08467	.00954
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value										.06000	
Range										20.000%	

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02095**	**.01561**
Stddev	.00027	.00076
%RSD	1.2818	4.8884
#1	.02114	.01507
#2	.02076	.01614
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5663.7**	**73573.**	**5084.0**
Stddev	10.6	503.	20.9
%RSD	.18795	.68306	.41063
#1	5671.3	73218.	5069.2
#2	5656.2	73928.	5098.7

Sample Name: 280-23965-a-33-b Acquired: 12/28/2011 23:09:34 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**33.216**	**.00902**	**.01504**	**.02865**	**.00060**	**-.00078**	**.81616**	**.00011**	**.00633**
Stddev	.00080	.078	.00002	.00003	.00023	.00009	.00001	.00390	.00001	.00037
%RSD	145.94	.23344	.22548	.19970	.79868	15.058	1.0616	.47803	6.0482	5.8563
#1	.00112	33.161	.00904	.01501	.02882	.00054	-.00077	.81892	.00011	.00607
#2	-.00002	33.271	.00901	.01506	.02849	.00066	-.00078	.81340	.00012	.00659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03201**	**.91559**	**60.889**	**1.2673**	**.02717**	**1.8491**	**.86477**	**.00440**	**1.1398**	**.01987**
Stddev	.00013	.00072	.194	.0327	.00306	.0012	.00066	.00007	.0120	.00001
%RSD	.42013	.07901	.31837	2.5808	11.250	.06638	.07597	1.4928	1.0486	.04094
#1	.03211	.91610	60.752	1.2904	.02501	1.8499	.86523	.00436	1.1313	.01988
#2	.03192	.91507	61.026	1.2442	.02933	1.8482	.86430	.00445	1.1482	.01986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0029**	**.07488**	**1.0634**	**-.00005**	**.00036**	**2.6765**	**.01024**	**.01583**	**.00176**	**.45081**
Stddev	.0046	.00027	.0041	.00150	.00047	.0086	.00017	.00006	.00138	.00045
%RSD	.45361	.36642	.38253	2819.4	131.73	.32263	1.6274	.36515	78.032	.10080
#1	1.0061	.07469	1.0663	-.00111	.00069	2.6826	.01012	.01579	.00274	.45049
#2	.99970	.07507	1.0605	.00101	.00002	2.6704	.01036	.01587	.00079	.45113
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**.05236**	**.04431**	**3.1193**	**.00784**
Stddev	.00059	.00044	.00022	.0063	.00038
%RSD	47.583	.83138	.49258	.20061	4.8255
#1	-.00082	.05267	.04446	3.1237	.00811
#2	-.00166	.05205	.04415	3.1148	.00757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5664.0**	**73137.**	**5123.6**
Stddev	2.1	82.	8.4
%RSD	.03672	.11147	.16365
#1	5662.5	73079.	5129.5
#2	5665.5	73194.	5117.6

Sample Name: 280-23965-a-34-b Acquired: 12/28/2011 23:12:03 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00052**	**152.34**	k **.02185**	**.03867**	k **.35241**	k **.00144**	kW **-.01112**	**1.5446**	k **.00036**	k **.01483**
Stddev	.00049	.59	.00182	.00010	.00104	.00009	.00087	.0055	.00008	.00010
%RSD	93.152	.38776	8.3115	.25707	.29583	6.5884	7.8431	.35312	20.845	.70801
#1	k -.00018	152.76	k .02313	.03874	k .35314	k .00150	k -.01050	1.5484	k .00031	k .01490
#2	k -.00087	151.92	k .02056	.03860	k .35167	k .00137	k -.01173	1.5407	k .00042	k .01475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit							3.0000			
Low Limit							-.01000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15505**	k **.45377**	k **43.599**	**7.2395**	**.12099**	k **9.4151**	**.20732**	**.00482**	**8.1161**	**.04648**
Stddev	.00020	.00039	.218	.0295	.00036	.0142	.00042	.00007	.0378	.00061
%RSD	.12663	.08563	.49992	.40708	.30158	.15087	.20414	1.3927	.46562	1.3128
#1	.15518	k .45405	k 43.753	7.2604	.12125	k 9.4251	.20762	.00487	8.1428	.04605
#2	.15491	k .45350	k 43.444	7.2187	.12073	k 9.4050	.20702	.00478	8.0894	.04691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.64481**	k **.11320**	**3.6832**	k **-.00206**	k **-.00194**	**2.7584**	k **.00401**	**.04620**	k **.07974**	k **1.3347**
Stddev	.00034	.00021	.0024	.00082	.00367	.0194	.00093	.00027	.00157	.0013
%RSD	.05246	.18937	.06398	39.605	189.47	.70290	23.167	.57619	1.9725	.09351
#1	.64457	k .11335	3.6815	k -.00148	k .00066	2.7447	k .00335	.04639	k .07863	k 1.3356
#2	.64505	k .11305	3.6848	k -.00264	k -.00454	2.7721	k .00466	.04601	k .08085	k 1.3338
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00166**	k **.00614**	k **.23538**	**.40644**	k **.04585**
Stddev	.00024	.00131	.00041	.00077	.00022
%RSD	14.480	21.391	.17522	.18827	.48159
#1	k -.00149	k .00521	k .23509	.40698	k .04569
#2	k -.00183	k .00707	k .23567	.40590	k .04601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5870.5**	**74249.**	**5379.4**
Stddev	5.4	231.	22.3
%RSD	.09155	.31069	.41503
#1	5866.7	74086.	5363.6
#2	5874.3	74412.	5395.2

Sample Name: 280-23965-a-37-b Acquired: 12/28/2011 23:14:28 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**10.491**	**.00458**	**.07834**	**.01932**	**.00048**	**-.00326**	**5.0053**	**.00165**	**.00262**
Stddev	.00000	.036	.00152	.00035	.00001	.00007	.00038	.0102	.00022	.00028
%RSD	1.0752	.34196	33.087	.44509	.03964	14.087	11.571	.20463	13.345	10.795
#1	.00034	10.466	.00565	.07859	.01931	.00043	-.00299	4.9980	.00180	.00282
#2	.00034	10.517	.00351	.07810	.01932	.00053	-.00353	5.0125	.00149	.00242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03058**	**.16547**	**8.9577**	**3.0922**	**.02148**	**8.6581**	**.09326**	**.00169**	**45.365**	**.01331**
Stddev	.00005	.00073	.0099	.0209	.00132	.0265	.00013	.00007	.115	.00010
%RSD	.17053	.43948	.11073	.67710	6.1441	.30612	.13440	4.2361	.25436	.72552
#1	.03054	.16598	8.9507	3.1070	.02054	8.6769	.09335	.00164	45.447	.01324
#2	.03061	.16495	8.9648	3.0774	.02241	8.6394	.09317	.00174	45.283	.01338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1214**	**.41787**	**7.3537**	**.01079**	**.00058**	**1.5485**	**.01088**	**.08200**	**.00265**	**.33459**
Stddev	.0004	.00088	.0150	.00113	.00256	.0051	.00046	.00006	.00045	.00107
%RSD	.03322	.20964	.20416	10.468	440.86	.32810	4.2491	.07750	16.907	.32080
#1	1.1217	.41725	7.3431	.01159	-.00123	1.5449	.01056	.08204	.00234	.33535
#2	1.1211	.41849	7.3643	.00999	.00239	1.5521	.01121	.08195	.00297	.33383
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00150**	**.00777**	**.02018**	**2.6598**	**.00584**
Stddev	.00083	.01888	.00022	.0034	.00170
%RSD	55.450	243.00	1.0969	.12597	29.173
#1	-.00209	-.00558	.02003	2.6621	.00705
#2	-.00091	.02113	.02034	2.6574	.00464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5593.2**	**72135.**	**5152.6**
Stddev	5.2	10.	11.1
%RSD	.09355	.01330	.21488
#1	5596.9	72142.	5144.8
#2	5589.5	72128.	5160.5

Sample Name: 280-23965-a-38-b Acquired: 12/28/2011 23:16:56 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**148.37**	**.04593**	**.12076**	**.17396**	**.00477**	**-.00848**	**11.291**	**.00081**	**.02145**
Stddev	.00036	.31	.00051	.00069	.00055	.00001	.00191	.016	.00004	.00011
%RSD	107.81	.20805	1.1197	.56963	.31333	.31021	22.464	.14261	5.1682	.50068
#1	-.00059	148.15	.04557	.12028	.17357	.00476	-.00983	11.279	.00084	.02153
#2	-.00008	148.59	.04629	.12125	.17435	.00478	-.00713	11.302	.00078	.02137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14403**	**.10376**	**53.056**	**11.285**	**.14059**	**21.608**	**.59794**	**.00593**	**62.617**	**.06939**
Stddev	.00030	.00031	.179	.019	.00034	.036	.00044	.00013	.446	.00007
%RSD	.20597	.30260	.33806	.16796	.23950	.16450	.07292	2.1344	.71251	.10427
#1	.14424	.10354	52.929	11.272	.14035	21.583	.59763	.00584	62.301	.06934
#2	.14382	.10398	53.182	11.298	.14083	21.633	.59825	.00602	62.932	.06944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.3267**	**.07813**	**42.867**	**-.00365**	**.00571**	**2.7549**	**.00475**	**.19246**	**.02219**	**1.7213**
Stddev	.0078	.00038	.092	.00187	.00017	.0182	.00017	.00017	.00067	.0014
%RSD	.33658	.48747	.21538	51.262	2.9318	.66111	3.5760	.08791	2.9980	.08090
#1	2.3322	.07786	42.933	-.00497	.00560	2.7420	.00463	.19258	.02266	1.7223
#2	2.3212	.07840	42.802	-.00233	.00583	2.7677	.00487	.19234	.02172	1.7203
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.01366**	**.18913**	**.39740**	**.06130**
Stddev	.00006	.00065	.00002	.00035	.00093
%RSD	16.016	4.7284	.00954	.08869	1.5132
#1	.00044	.01320	.18914	.39715	.06064
#2	.00035	.01411	.18911	.39765	.06195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5960.9**	**75309.**	**5502.2**
Stddev	3.7	34.	15.5
%RSD	.06202	.04554	.28102
#1	5958.3	75285.	5513.1
#2	5963.6	75333.	5491.2

Sample Name: 280-23965-a-39-b Acquired: 12/28/2011 23:19:22 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**52.557**	**.01909**	**.03475**	**.12732**	**.00146**	**-.00214**	**2.2573**	**.00015**	**.00878**
Stddev	.00018	.121	.00196	.00041	.00033	.00001	.00044	.0125	.00007	.00007
%RSD	51.216	.23055	10.247	1.1718	.25843	.99212	20.664	.55472	42.696	.76443
#1	-.00022	52.472	.02048	.03446	.12709	.00145	-.00245	2.2485	.00011	.00873
#2	-.00047	52.643	.01771	.03504	.12756	.00147	-.00182	2.2662	.00020	.00883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05618**	**.15903**	**37.387**	**3.2418**	**.05251**	**6.1013**	**.23853**	**.00318**	**15.808**	**.03302**
Stddev	.00004	.00007	.104	.0187	.00018	.0024	.00003	.00019	.028	.00015
%RSD	.06467	.04492	.27767	.57546	.34362	.03929	.01312	6.1175	.17724	.46648
#1	.05620	.15898	37.314	3.2550	.05238	6.0996	.23851	.00331	15.788	.03291
#2	.05615	.15908	37.461	3.2286	.05264	6.1030	.23855	.00304	15.828	.03312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0886**	**.47519**	**2.4864**	**.00224**	**.00076**	**2.0521**	**.00690**	**.05004**	**.01050**	**.80359**
Stddev	.0019	.00145	.0030	.00141	.00103	.0372	.00006	.00024	.00168	.00159
%RSD	.17237	.30567	.12100	62.766	134.90	1.8139	.79928	.47634	15.991	.19812
#1	1.0872	.47416	2.4886	.00324	.00149	2.0784	.00694	.04987	.00931	.80246
#2	1.0899	.47621	2.4843	.00125	.00004	2.0258	.00686	.05020	.01169	.80471
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.01811**	**.07862**	**.69225**	**.01170**
Stddev	.00055	.00411	.00061	.00102	.00073
%RSD	274.69	22.710	.77704	.14696	6.2335
#1	.00019	.02102	.07818	.69153	.01221
#2	-.00059	.01521	.07905	.69297	.01118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5757.6**	**73544.**	**5222.0**
Stddev	4.2	32.	2.6
%RSD	.07341	.04407	.05031
#1	5760.6	73521.	5223.8
#2	5754.6	73567.	5220.1

Sample Name: 280-23965-a-40-b Acquired: 12/28/2011 23:21:49 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 100944 SOIL/DOD4/6010C

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**10.071**	**.00553**	**.01132**	**.03998**	**.00025**	**-.00511**	**.70506**	**.00042**	**.00198**
Stddev	.00012	.036	.00217	.00020	.00007	.00001	.00020	.00287	.00016	.00013
%RSD	64.079	.35939	39.124	1.7347	.17967	3.8233	3.8991	.40732	37.631	6.3687
#1	.00010	10.096	.00400	.01146	.03993	.00025	-.00497	.70709	.00031	.00207
#2	.00027	10.045	.00706	.01118	.04003	.00026	-.00525	.70303	.00053	.00189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01302**	**.03506**	**4.3555**	**.79373**	**.01385**	**1.6108**	**.05057**	**.00034**	**7.6471**	**.00639**
Stddev	.00005	.00015	.0140	.02524	.00247	.0001	.00003	.00010	.0368	.00036
%RSD	.41825	.43064	.32237	3.1801	17.805	.00402	.06277	29.357	.48125	5.6776
#1	.01305	.03517	4.3654	.81158	.01211	1.6108	.05059	.00042	7.6731	.00665
#2	.01298	.03495	4.3456	.77588	.01560	1.6109	.05055	.00027	7.6211	.00614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17537**	**.10053**	**1.6487**	**.00063**	**.00159**	**1.4903**	**.00556**	**.01655**	**.00636**	**.26601**
Stddev	.00118	.00061	.0058	.00045	.00006	.0065	.00063	.00006	.00048	.00076
%RSD	.67134	.60896	.34931	70.985	3.9545	.43866	11.319	.34259	7.5291	.28703
#1	.17621	.10010	1.6528	.00032	.00164	1.4949	.00512	.01659	.00602	.26655
#2	.17454	.10097	1.6446	.00095	.00155	1.4857	.00601	.01651	.00670	.26547
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**.01237**	**.01265**	**.25151**	**.00376**
Stddev	.00029	.01885	.00042	.00063	.00032
%RSD	33.795	152.41	3.3462	.25109	8.4224
#1	-.00065	.02570	.01295	.25106	.00399
#2	-.00106	-.00096	.01235	.25196	.00354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5694.8**	**73816.**	**5165.0**
Stddev	2.9	110.	11.6
%RSD	.05057	.14840	.22555
#1	5692.8	73894.	5156.7
#2	5696.8	73739.	5173.2

Sample Name: CCVH-1190977 Acquired: 12/28/2011 23:24:20 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00364**	**49.354**	**-.00050**	**.00629**	**.00007**	**-.00002**	**1.0200**	**.00253**	**-.00149**	**.00232**	**-.00016**	**-.00289**	**48.408**
Stddev	.00046	.261	.00059	.00063	.00041	.00008	.0010	.00126	.00004	.00017	.00008	.00027	.176
%RSD	12.520	.52848	116.07	10.045	606.09	499.94	.09327	49.879	2.9054	7.4606	49.724	9.5018	.36365
#1	.00332	49.170	-.00009	.00673	.00036	.00004	1.0193	.00342	-.00152	.00245	-.00021	-.00270	48.283
#2	.00396	49.539	-.00092	.00584	-.00022	-.00007	1.0206	.00164	-.00146	.00220	-.00010	-.00309	48.532
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03418**	**.00595**	**.02586**	**-.00079**	**-.00119**	**253.27**	**.00165**	**.00475**	**.00169**	**5.2772**	**-.00428**	**.00176**	**-.00641**
Stddev	.05479	.00071	.00180	.00001	.00002	1.89	.00001	.00259	.00133	.0042	.00062	.00192	.00036
%RSD	160.30	11.970	6.9775	1.4659	1.7772	.74607	.50461	54.503	78.543	.07933	14.550	108.81	5.5626
#1	.07293	.00646	.02458	-.00079	-.00121	251.93	.00165	.00658	.00075	5.2743	-.00473	.00312	-.00666
#2	-.00456	.00545	.02713	-.00078	-.00118	254.60	.00166	.00292	.00263	5.2802	-.00384	.00041	-.00615
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**.00028**	**5.0494**	**-.02356**	**.00211**	**10.280**	**.00471**	**.00221**	**-.11304**
Stddev	.00010	.00005	.0141	.00030	.00054	.041	.00019	.00017	.00153
%RSD	8.8533	18.601	.28026	1.2603	25.416	.39747	4.0894	7.7396	1.3500
#1	.00117	.00024	5.0594	-.02377	.00249	10.309	.00485	.00233	-.11411
#2	.00103	.00032	5.0394	-.02335	.00173	10.251	.00458	.00209	-.11196
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5474.2**	**69729.**	**5028.4**
Stddev	4.1	302.	18.8
%RSD	.07430	.43272	.37454
#1	5471.3	69516.	5041.7
#2	5477.1	69942.	5015.1

Sample Name: CCV-1190978 Acquired: 12/28/2011 23:26:49 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51557**	**.49878**	**1.0062**	**.51290**	**.51126**	**.48351**	**-.00067**	**5.0100**	**.51137**	**.51531**	**.51354**	**.49929**	**2.4311**
Stddev	.00355	.00214	.0016	.00136	.00151	.00073	.00058	.0220	.00075	.00050	.00009	.00261	.0112
%RSD	.68805	.42810	.15673	.26493	.29579	.15186	87.043	.43820	.14746	.09791	.01824	.52341	.46086
#1	.51808	.49727	1.0051	.51194	.51233	.48403	-.00026	5.0255	.51084	.51495	.51361	.50114	2.4390
#2	.51307	.50029	1.0073	.51386	.51019	.48299	-.00108	4.9944	.51190	.51567	.51348	.49745	2.4232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.791**	**1.0195**	**19.855**	**.49701**	**.50550**	**5.1826**	**.51110**	**1.0038**	**1.0257**	**.00608**	**1.0044**	**1.0055**	**4.8093**
Stddev	.107	.0014	.113	.00336	.00025	.0220	.00009	.0023	.0008	.00210	.0038	.0053	.0286
%RSD	.21394	.13640	.56684	.67504	.04858	.42464	.01679	.23002	.07295	34.526	.37554	.52203	.59483
#1	49.866	1.0205	19.935	.49938	.50567	5.1981	.51104	1.0021	1.0262	.00756	1.0017	1.0018	4.8295
#2	49.715	1.0185	19.776	.49464	.50532	5.1670	.51116	1.0054	1.0251	.00459	1.0071	1.0093	4.7890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0002**	**.49378**	**-.00569**	**.50494**	**1.0505**	**-.02314**	**.51060**	**.49769**	**.49500**
Stddev	.0023	.00116	.00060	.00350	.0010	.01115	.00386	.00250	.00048
%RSD	.22902	.23443	10.624	.69327	.09252	48.197	.75576	.50330	.09715
#1	.99856	.49460	-.00527	.50742	1.0498	-.03102	.51333	.49946	.49534
#2	1.0018	.49296	-.00612	.50247	1.0512	-.01525	.50787	.49591	.49466
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5588.2**	**71871.**	**5068.5**
Stddev	1.0	375.	2.5
%RSD	.01766	.52175	.04897
#1	5588.9	71606.	5070.3
#2	5587.5	72136.	5066.8

Sample Name: CCB Acquired: 12/28/2011 23:29:09 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	W **-.02427**	**.00265**	F **.00502**	**-.00004**	**-.00003**	**.00031**	**-.00537**	**-.00007**	**-.00004**
Stddev	.0004	.00079	.00083	.00001	.00014	.00011	.00053	.00058	.00005	.00022
%RSD	8544.7	3.2496	31.321	.11287	377.97	372.54	172.37	10.856	70.403	502.75
#1	.00027	-.02483	.00206	.00501	.00006	-.00010	-.00007	-.00578	-.00004	-.00020
#2	-.00028	-.02372	.00323	.00502	-.00013	.00005	.00068	-.00496	-.00011	.00011
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00312						
Low Limit		-.01800		-.00312						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00036**	**.01219**	**-.02355**	**.00240**	**.00118**	**-.00019**	**.00035**	F **.14150**	**.00023**
Stddev	.00004	.00002	.00003	.00486	.00205	.00323	.00003	.00007	.01357	.00019
%RSD	96.615	5.2716	.24348	20.657	85.537	274.07	14.675	20.383	9.5916	81.829
#1	-.00007	-.00038	.01221	-.02699	.00095	-.00110	-.00017	.00030	.13191	.00010
#2	-.00001	-.00035	.01217	-.02011	.00385	.00346	-.00021	.00040	.15110	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit									.10000	
Low Limit									-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00251**	**-.00116**	**.00493**	**.00312**	**.00067**	**.00457**	**-.00074**	**-.00003**	**.00054**	**.00025**
Stddev	.00212	.00188	.00201	.00002	.00237	.00959	.00009	.00003	.00106	.00015
%RSD	84.239	162.00	40.687	.71444	354.42	209.83	12.510	93.056	193.91	58.787
#1	-.00401	.00017	.00635	.00314	-.00101	-.00221	-.00067	-.00005	-.00020	.00015
#2	-.00102	-.00249	.00351	.00310	.00235	.01135	-.00080	-.00001	.00129	.00036
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.01319**	**-.00029**	**.00167**	**-.00001**
Stddev	.00090	.01575	.00056	.00014	.00096
%RSD	372.85	119.44	196.88	8.5649	16803.
#1	-.00088	.02432	-.00069	.00157	.00067
#2	.00039	.00205	.00011	.00177	-.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5616.0**	**73010.**	**5040.8**
Stddev	3.6	231.	34.9
%RSD	.06369	.31576	.69288
#1	5618.6	73173.	5065.5
#2	5613.5	72847.	5016.1

Sample Name: CCVL1192076 Acquired: 12/28/2011 23:31:44 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01058**	**.08529**	**.01581**	**.10738**	**.01017**	**.00092**	**.11999**	**.19339**	**.00514**	**.01064**	**.01021**
Stddev	.00011	.00072	.00029	.00047	.00007	.00008	.00023	.00369	.00025	.00014	.00009
%RSD	1.0603	.84656	1.8220	.44088	.71507	8.9012	.19534	1.9083	4.9417	1.3373	.86846
#1	.01050	.08580	.01561	.10705	.01012	.00098	.12015	.19600	.00532	.01074	.01027
#2	.01066	.08478	.01602	.10772	.01023	.00086	.11982	.19078	.00496	.01054	.01014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01532**	**.09680**	**2.9608**	F **.01554**	**.20684**	**.00993**	**.01971**	**1.1144**	**.04156**	**2.9368**	**.01010**
Stddev	.00008	.00089	.0039	.00495	.00157	.00003	.00010	.0080	.00020	.0008	.00079
%RSD	.53285	.91910	.13053	31.836	.75686	.25920	.52599	.71818	.48868	.02804	7.8193
#1	.01538	.09617	2.9635	.01904	.20794	.00995	.01979	1.1201	.04171	2.9374	.00955
#2	.01526	.09743	2.9581	.01205	.20573	.00991	.01964	1.1088	.04142	2.9362	.01066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				30.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00463**	**.01017**	**.01312**	**.47527**	**.10030**	**.00992**	**.01504**	**.00988**	**.01669**	W **.07720**	**.01010**
Stddev	.00187	.00155	.00139	.00602	.00043	.00003	.00053	.00032	.00119	.03138	.00068
%RSD	40.347	15.246	10.573	1.2675	.43291	.29028	3.5245	3.2740	7.1132	40.653	6.6972
#1	.00595	.00908	.01410	.47953	.10061	.00990	.01542	.00965	.01753	.05501	.01058
#2	.00331	.01127	.01214	.47101	.09999	.00994	.01467	.01011	.01585	.09939	.00962
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value										.06000	
Range										20.000%	

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02122**	**.01590**
Stddev	.00031	.00080
%RSD	1.4807	5.0191
#1	.02144	.01534
#2	.02100	.01646
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5681.1**	**73816.**	**5088.3**
Stddev	.9	214.	24.5
%RSD	.01505	.29037	.48209
#1	5681.7	73664.	5071.0
#2	5680.5	73967.	5105.7

Sample Name: mb 280-101493/1-b Acquired: 12/28/2011 23:34:18 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101501 6010C/DOD4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**-.02164**	**.00304**	**.00396**	**-.00013**	**-.00002**	**.00172**	**-.00221**	**-.00013**	**.00006**
Stddev	.00014	.00016	.00176	.00014	.00003	.00001	.00255	.00040	.00001	.00011
%RSD	31.144	.75230	58.002	3.5174	24.976	79.399	148.20	17.951	8.3656	178.50
#1	.00054	-.02153	.00179	.00386	-.00010	-.00001	.00353	-.00193	-.00014	.00014
#2	.00035	-.02176	.00428	.00406	-.00015	-.00003	-.00008	-.00249	-.00012	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00008**	**.00509**	**-.01358**	**.00345**	**-.00029**	**-.00013**	**-.00010**	**.10689**	**.00028**
Stddev	.00006	.00009	.00018	.01120	.00351	.00098	.00003	.00024	.00720	.00001
%RSD	81.810	114.96	3.5332	82.491	101.74	341.60	23.955	252.50	6.7327	4.7645
#1	-.00003	.00001	.00496	-.00566	.00593	-.00098	-.00015	.00008	.10180	.00029
#2	-.00011	.00014	.00521	-.02150	.00097	.00040	-.00011	-.00027	.11198	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00277**	**-.00077**	**.00405**	**-.00056**	**-.00254**	**-.00990**	**.00018**	**.00002**	**-.00021**	**-.00004**
Stddev	.00005	.00126	.00143	.00006	.00245	.01191	.00021	.00006	.00096	.00010
%RSD	1.8080	163.95	35.168	11.487	96.518	120.25	115.49	388.76	449.39	237.43
#1	-.00280	-.00165	.00304	-.00052	-.00081	-.01832	.00033	.00006	-.00089	.00003
#2	-.00273	.00012	.00506	-.00061	-.00427	-.00148	.00003	-.00003	.00047	-.00011
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**.00498**	**-.00022**	**.00238**	**-.00035**
Stddev	.00103	.02391	.00013	.00010	.00039
%RSD	83.618	479.58	56.462	4.1035	112.80
#1	-.00051	.02189	-.00031	.00245	-.00062
#2	-.00197	-.01192	-.00013	.00231	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5677.2**	**73962.**	**5135.4**
Stddev	2.7	44.	35.7
%RSD	.04822	.05975	.69483
#1	5679.2	73931.	5160.6
#2	5675.3	73993.	5110.2

Sample Name: lcs 280-101493/2-b Acquired: 12/28/2011 23:36:52 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101501 6010C/DOD4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05580**	**1.9380**	**1.0136**	**1.0379**	**2.0340**	**.04817**	**2.1907**	**48.980**	**.09798**	**.49918**
Stddev	.00031	.0091	.0004	.0015	.0017	.00000	.0061	.065	.00016	.00123
%RSD	.56227	.46679	.04168	.14250	.08280	.00654	.27641	.13282	.16706	.24546
#1	.05602	1.9316	1.0133	1.0368	2.0352	.04817	2.1864	48.934	.09810	.49832
#2	.05558	1.9444	1.0139	1.0389	2.0328	.04816	2.1950	49.026	.09787	.50005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20253**	**.24825**	**.96702**	**50.499**	**1.0273**	**48.858**	**.49556**	**1.0072**	**52.163**	**.49981**
Stddev	.00024	.00010	.00116	.002	.0001	.030	.00033	.0018	.018	.00107
%RSD	.12047	.04023	.12046	.00359	.01200	.06215	.06667	.17657	.03538	.21317
#1	.20270	.24818	.96620	50.500	1.0272	48.836	.49533	1.0059	52.176	.49906
#2	.20236	.24832	.96785	50.497	1.0274	48.879	.49579	1.0085	52.150	.50056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.352**	**.50403**	**.01162**	**.51116**	**2.0049**	**9.7067**	**1.9678**	**.99411**	**1.0004**	**1.0226**
Stddev	.018	.00039	.00332	.00190	.0026	.0220	.0016	.00043	.0016	.0010
%RSD	.17497	.07766	28.596	.37191	.13117	.22682	.07975	.04296	.15547	.09685
#1	10.339	.50375	.00927	.51251	2.0031	9.6911	1.9667	.99381	.99926	1.0219
#2	10.365	.50430	.01397	.50982	2.0068	9.7223	1.9689	.99441	1.0015	1.0233
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0218**	**2.1193**	**.51770**	**.48876**	**.48468**
Stddev	.0037	.0200	.00074	.00119	.00251
%RSD	.18326	.94346	.14377	.24308	.51864
#1	2.0192	2.1052	.51718	.48960	.48290
#2	2.0244	2.1334	.51823	.48792	.48646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5458.2**	**70353.**	**5108.0**
Stddev	2.1	60.	14.4
%RSD	.03916	.08481	.28109
#1	5456.7	70311.	5097.8
#2	5459.7	70395.	5118.1

Sample Name: lcsd 280-101493/5-b Acquired: 12/28/2011 23:39:10 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101501 6010C/DOD4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05623**	**1.9606**	**1.0252**	**1.0478**	**2.0576**	**.04886**	**2.2164**	**49.505**	**.09894**	**.50427**
Stddev	.00047	.0020	.0010	.0016	.0013	.00003	.0055	.049	.00030	.00098
%RSD	.82761	.10218	.10099	.15492	.06123	.05507	.24604	.09904	.30781	.19421
#1	.05656	1.9620	1.0245	1.0490	2.0567	.04888	2.2202	49.470	.09915	.50496
#2	.05590	1.9591	1.0260	1.0467	2.0585	.04884	2.2125	49.540	.09872	.50358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20427**	**.25159**	**.97634**	**51.085**	**1.0379**	**49.487**	**.50160**	**1.0146**	**52.475**	**.50584**
Stddev	.00030	.00079	.00299	.066	.0016	.032	.00055	.0017	.277	.00114
%RSD	.14565	.31513	.30609	.12979	.15423	.06479	.10922	.16372	.52821	.22579
#1	.20448	.25215	.97845	51.038	1.0368	49.510	.50122	1.0158	52.671	.50665
#2	.20406	.25103	.97423	51.132	1.0390	49.464	.50199	1.0135	52.279	.50503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.465**	**.51002**	**.01226**	**.51478**	**2.0302**	**9.7848**	**1.9817**	**1.0051**	**1.0133**	**1.0323**
Stddev	.022	.00291	.00109	.00052	.0094	.0103	.0049	.0012	.0006	.0017
%RSD	.20600	.57009	8.8561	.10058	.46195	.10474	.24845	.11895	.05824	.16281
#1	10.480	.51208	.01149	.51514	2.0368	9.7775	1.9851	1.0042	1.0137	1.0311
#2	10.450	.50797	.01302	.51441	2.0236	9.7920	1.9782	1.0059	1.0128	1.0335
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0427**	**2.1631**	**.52445**	**.49459**	**.48742**
Stddev	.0036	.0208	.00009	.00182	.00240
%RSD	.17530	.96244	.01651	.36767	.49151
#1	2.0402	2.1484	.52439	.49330	.48911
#2	2.0452	2.1779	.52451	.49588	.48572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5443.5**	**70142.**	**5093.7**
Stddev	9.9	211.	2.9
%RSD	.18117	.30128	.05663
#1	5436.6	70291.	5095.7
#2	5450.5	69992.	5091.7

Sample Name: 280-23879-b-32-e Acquired: 12/28/2011 23:41:27 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101501 6010C/DOD4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**-.02156**	**.00296**	**.11102**	**.21911**	**-.00003**	**-.00463**	**79.451**	**.00040**	**.00026**
Stddev	.00010	.00016	.00039	.00084	.00029	.00000	.00145	.054	.00010	.00002
%RSD	30.177	.72299	13.167	.75569	.13445	6.8992	31.395	.06838	25.264	6.2419
#1	.00042	-.02145	.00269	.11161	.21890	-.00003	-.00566	79.413	.00033	.00027
#2	.00027	-.02167	.00324	.11043	.21932	-.00003	-.00360	79.490	.00048	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00569**	**.00160**	**.00361**	**3.1165**	**.02375**	**16.462**	**.00063**	**.00135**	**113.30**	**.00154**
Stddev	.00003	.00017	.00178	.0043	.00101	.006	.00004	.00042	.23	.00064
%RSD	.52596	10.895	49.385	.13894	4.2408	.03566	6.8806	30.743	.20660	41.309
#1	.00567	.00147	.00487	3.1134	.02304	16.458	.00060	.00106	113.13	.00109
#2	.00571	.00172	.00235	3.1196	.02446	16.466	.00066	.00164	113.46	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04938**	**-.00110**	**7.7992**	**-.00082**	**.00243**	**12.606**	**.00000**	**.22310**	**.00064**	**.00002**
Stddev	.00187	.00012	.0106	.00131	.00219	.005	.0002	.00046	.00075	.00006
%RSD	3.7858	10.729	.13627	159.51	90.052	.03633	3738.7	.20684	117.95	290.10
#1	.04806	-.00102	7.7917	-.00174	.00088	12.609	.00011	.22278	.00117	-.00002
#2	.05071	-.00119	7.8067	.00010	.00398	12.602	-.00012	.22343	.00011	.00007
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.01214**	**.00254**	**.01794**	**.00070**
Stddev	.00052	.01713	.00018	.00007	.00094
%RSD	49.469	141.12	7.2048	.40389	132.88
#1	.00068	.00003	.00267	.01800	.00137
#2	.00141	.02425	.00241	.01789	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5420.4**	**69561.**	**5099.5**
Stddev	7.4	21.	6.1
%RSD	.13712	.03031	.11966
#1	5415.1	69546.	5103.8
#2	5425.6	69576.	5095.2

Sample Name: 280-23879-b-37-d Acquired: 12/28/2011 23:43:59 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101501 6010C/DOD4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.02193**	**.00439**	**.18058**	**.30110**	**-.00009**	**-.00251**	**97.644**	**.00015**	**.00014**
Stddev	.00008	.00033	.00133	.00069	.00263	.00003	.00196	.821	.00003	.00008
%RSD	33.019	1.4901	30.248	.38445	.87488	35.618	77.966	.84065	23.109	58.026
#1	.00029	-.02216	.00345	.18008	.29923	-.00011	-.00389	97.063	.00017	.00019
#2	.00018	-.02170	.00532	.18107	.30296	-.00007	-.00113	98.224	.00012	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00283**	**.00074**	**.00118**	**3.0337**	**.02743**	**27.225**	**.04431**	**.00030**	**39.979**	**.00234**
Stddev	.00011	.00048	.00179	.0191	.00066	.004	.00014	.00000	.254	.00022
%RSD	3.7878	65.384	151.95	.62821	2.3965	.01421	.30683	.50133	.63476	9.5163
#1	.00275	.00108	.00245	3.0203	.02696	27.228	.04422	.00030	39.800	.00250
#2	.00290	.00040	-.00009	3.0472	.02789	27.222	.04441	.00030	40.159	.00218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01791**	**-.00150**	**7.0358**	**-.00182**	**.00273**	**11.560**	**-.00063**	**.41353**	**-.00034**	**-.00017**
Stddev	.00085	.00136	.0126	.00002	.00192	.061	.00019	.00268	.00018	.00001
%RSD	4.7460	90.767	.17878	.84860	70.307	.52680	29.711	.64695	51.611	8.1478
#1	.01852	-.00246	7.0269	-.00181	.00409	11.517	-.00076	.41164	-.00022	-.00018
#2	.01731	-.00054	7.0447	-.00184	.00137	11.603	-.00050	.41542	-.00046	-.00016
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**-.00466**	**.00146**	**.00366**	**-.00003**
Stddev	.00115	.01179	.00035	.00005	.00124
%RSD	127.07	253.00	24.217	1.2503	3739.6
#1	.00172	-.01299	.00171	.00362	-.00091
#2	.00009	.00368	.00121	.00369	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5463.0**	**70484.**	**5109.2**
Stddev	15.7	95.	21.1
%RSD	.28692	.13429	.41377
#1	5474.1	70417.	5124.2
#2	5452.0	70551.	5094.3

Sample Name: 280-23879-b-37-dSD@5 Acquired: 12/28/2011 23:46:31 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101501 6010C/DOD4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.02298**	**.00209**	**.04030**	**.06288**	**.00000**	**-.00161**	**20.342**	**.00007**	**-.00011**
Stddev	.00025	.00021	.00324	.00005	.00019	.0001	.00328	.116	.00004	.00004
%RSD	676.95	.93220	155.12	.12572	.30767	1327.7	203.47	.56925	57.052	36.887
#1	.00014	-.02283	.00438	.04033	.06275	-.00004	.00071	20.260	.00010	-.00008
#2	-.00022	-.02313	-.00020	.04026	.06302	.00003	-.00393	20.424	.00004	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**-.00031**	**.00179**	**.58369**	**.00556**	**5.7080**	**.00920**	**-.00007**	**7.9259**	**.00065**
Stddev	.00014	.00008	.00019	.02358	.00069	.0116	.00001	.00021	.0399	.00033
%RSD	18.038	26.318	10.912	4.0392	12.455	.20386	.12731	295.70	.50347	50.672
#1	.00070	-.00037	.00192	.60036	.00605	5.6998	.00919	.00008	7.8977	.00042
#2	.00090	-.00026	.00165	.56702	.00507	5.7162	.00921	-.00022	7.9542	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00265**	**.00035**	**1.3930**	**-.00146**	**.00058**	**2.3576**	**-.00049**	**.08663**	**.00045**	**-.00013**
Stddev	.00022	.00075	.0023	.00092	.00014	.0012	.00028	.00049	.00061	.00014
%RSD	8.3913	211.32	.16545	62.996	24.085	.04949	57.576	.56440	135.77	103.65
#1	.00249	.00088	1.3946	-.00211	.00048	2.3584	-.00069	.08628	.00002	-.00004
#2	.00281	-.00017	1.3914	-.00081	.00068	2.3567	-.00029	.08697	.00088	-.00023
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.01312**	**.00025**	**.00462**	**-.00082**
Stddev	.00057	.00436	.00001	.00000	.00045
%RSD	153.74	33.244	4.3177	.06787	54.986
#1	-.00077	.01003	.00025	.00463	-.00050
#2	.00003	.01620	.00026	.00462	-.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5554.7**	**71969.**	**5067.1**
Stddev	16.6	69.	20.0
%RSD	.29864	.09519	.39454
#1	5543.0	72017.	5081.3
#2	5566.4	71920.	5053.0

Sample Name: 280-23879-b-37-e ms Acquired: 12/28/2011 23:49:04 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101501 6010C/DOD4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05649**	**1.9170**	**1.0338**	**1.2099**	**2.3641**	**.04918**	**2.1996**	**147.04**	**.09885**	**.49492**
Stddev	.00022	.0007	.0006	.0009	.0001	.00005	.0036	.14	.00008	.00016
%RSD	.39153	.03679	.05273	.07200	.00252	.09241	.16307	.09673	.07996	.03322
#1	.05664	1.9165	1.0342	1.2093	2.3640	.04915	2.1971	146.94	.09880	.49480
#2	.05633	1.9175	1.0335	1.2105	2.3641	.04922	2.2021	147.14	.09891	.49503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20650**	**.25197**	**.96869**	**55.086**	**1.0721**	**75.851**	**.54228**	**1.0108**	**92.164**	**.49722**
Stddev	.00001	.00005	.00142	.010	.0011	.144	.00113	.0015	.406	.00103
%RSD	.00286	.01981	.14678	.01767	.10194	.18970	.20827	.15205	.44066	.20801
#1	.20650	.25200	.96769	55.093	1.0729	75.952	.54308	1.0097	92.452	.49649
#2	.20651	.25193	.96970	55.080	1.0713	75.749	.54148	1.0119	91.877	.49795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.615**	**.49995**	**7.1753**	**.51345**	**2.0180**	**21.477**	**1.9557**	**1.4270**	**1.0163**	**1.0285**
Stddev	.007	.00041	.0066	.00090	.0083	.011	.0023	.0004	.0030	.0017
%RSD	.06471	.08135	.09259	.17455	.41297	.04932	.11944	.02848	.29201	.16894
#1	10.610	.50024	7.1706	.51281	2.0238	21.484	1.9574	1.4273	1.0184	1.0298
#2	10.620	.49967	7.1800	.51408	2.0121	21.469	1.9541	1.4267	1.0142	1.0273
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9623**	**2.1275**	**.52493**	**.48912**	**.48787**
Stddev	.0010	.0102	.00166	.00149	.00187
%RSD	.05222	.48069	.31564	.30545	.38304
#1	1.9616	2.1203	.52610	.49018	.48920
#2	1.9630	2.1347	.52376	.48807	.48655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5331.1**	**68506.**	**5053.5**
Stddev	7.4	78.	11.6
%RSD	.13829	.11330	.22926
#1	5336.3	68451.	5061.7
#2	5325.9	68561.	5045.3

Sample Name: 280-23879-b-37-f msd Acquired: 12/28/2011 23:51:20 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101501 6010C/DOD4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05553**	**1.8714**	**1.0044**	**1.1796**	**2.3092**	**.04791**	**2.1347**	**143.35**	**.09642**	**.48291**
Stddev	.00016	.0105	.0059	.0067	.0046	.00016	.0114	.34	.00052	.00220
%RSD	.29458	.56059	.58466	.56567	.20105	.33601	.53411	.23588	.54143	.45524
#1	.05541	1.8640	1.0002	1.1749	2.3125	.04802	2.1266	143.59	.09605	.48135
#2	.05565	1.8788	1.0085	1.1843	2.3059	.04779	2.1427	143.11	.09679	.48446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20172**	**.24712**	**.94311**	**53.709**	**1.0452**	**74.183**	**.53019**	**.98903**	**90.414**	**.48492**
Stddev	.00129	.00045	.00594	.174	.0039	.325	.00225	.00627	.239	.00292
%RSD	.63908	.18189	.62967	.32306	.37597	.43786	.42370	.63348	.26433	.60281
#1	.20081	.24744	.94731	53.831	1.0480	74.412	.53178	.98459	90.583	.48286
#2	.20263	.24681	.93891	53.586	1.0424	73.953	.52860	.99346	90.245	.48699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.313**	**.48706**	**6.9528**	**.49972**	**1.9588**	**20.931**	**1.9148**	**1.3890**	**.99284**	**1.0112**
Stddev	.072	.00208	.0390	.00394	.0179	.073	.0122	.0028	.00476	.0056
%RSD	.69753	.42637	.56071	.78910	.91341	.34773	.63703	.19873	.47993	.55342
#1	10.262	.48560	6.9252	.49693	1.9462	20.983	1.9061	1.3909	.99620	1.0152
#2	10.363	.48853	6.9804	.50251	1.9715	20.880	1.9234	1.3870	.98947	1.0073
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9146**	**2.1027**	**.51505**	**.47568**	**.47649**
Stddev	.0118	.0021	.00266	.00201	.00126
%RSD	.61777	.10139	.51687	.42257	.26447
#1	1.9062	2.1012	.51694	.47710	.47738
#2	1.9229	2.1042	.51317	.47426	.47560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5348.8**	**68566.**	**5049.3**
Stddev	19.5	243.	29.4
%RSD	.36386	.35403	.58216
#1	5362.6	68395.	5028.5
#2	5335.0	68738.	5070.1

Sample Name: 280-23879-b-37-dPDS Acquired: 12/28/2011 23:53:36 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101501 6010C/DOD4

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05111**	**.95291**	**.20214**	**.28013**	**.39771**	**.04761**	**-.00420**	**115.65**	**.05004**	**.04818**
Stddev	.00044	.00290	.00101	.00065	.00274	.00029	.00098	.46	.00011	.00019
%RSD	.86719	.30436	.49994	.23370	.68924	.61292	23.245	.39748	.21111	.38553
#1	.05080	.95496	.20285	.28060	.39965	.04781	-.00351	115.97	.04996	.04831
#2	.05142	.95086	.20142	.27967	.39577	.04740	-.00489	115.32	.05011	.04804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05275**	**.18055**	**.96168**	**23.005**	**.12962**	**45.494**	**.09167**	**.04995**	**59.786**	**.05089**
Stddev	.00015	.00024	.00647	.113	.00213	.087	.00014	.00039	.138	.00028
%RSD	.29186	.13147	.67265	.49094	1.6419	.19187	.14798	.78084	.23165	.55487
#1	.05286	.18072	.96626	23.084	.13113	45.432	.09157	.04968	59.884	.05069
#2	.05264	.18039	.95711	22.925	.12812	45.555	.09176	.05023	59.688	.05109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0510**	**1.0611**	**7.0010**	**.10045**	**.19902**	**16.277**	**.10545**	**.46069**	**.19671**	**.04886**
Stddev	.0022	.0006	.0114	.00008	.00095	.030	.00007	.00202	.00001	.00030
%RSD	.10678	.05920	.16338	.08440	.47716	.18673	.06554	.43860	.00492	.61110
#1	2.0494	1.0606	7.0091	.10039	.19969	16.298	.10550	.46212	.19672	.04865
#2	2.0525	1.0615	6.9929	.10051	.19835	16.255	.10540	.45927	.19671	.04907
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19549**	**.51736**	**.05265**	**.20091**	**.04643**
Stddev	.00047	.00006	.00035	.00053	.00307
%RSD	.23971	.01212	.67181	.26567	6.6222
#1	.19516	.51740	.05290	.20053	.04860
#2	.19582	.51731	.05240	.20129	.04425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5391.5**	**69722.**	**5055.2**
Stddev	12.1	178.	12.1
%RSD	.22480	.25597	.23860
#1	5400.0	69848.	5063.7
#2	5382.9	69596.	5046.7

Sample Name: CCVH-1190977 Acquired: 12/28/2011 23:55:58 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00343**	**49.368**	**.00061**	**.00843**	**.00059**	**-.00001**	**1.0250**	**.01346**	**-.00168**	**.00228**	**.00006**	**-.00300**	**48.546**
Stddev	.00001	.164	.00026	.00063	.00013	.00008	.0035	.00121	.00000	.00023	.00001	.00007	.024
%RSD	.22432	.33161	41.910	7.4151	22.565	811.86	.34314	8.9631	.24333	10.059	13.681	2.4135	.04860
#1	.00342	49.484	.00043	.00888	.00068	.00005	1.0225	.01431	-.00168	.00244	.00006	-.00305	48.529
#2	.00344	49.252	.00079	.00799	.00050	-.00007	1.0275	.01261	-.00168	.00211	.00007	-.00294	48.562
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04393**	**.00552**	**.03169**	**-.00086**	**-.00110**	**254.66**	**.00171**	**.00270**	**.00154**	**5.2972**	**-.00619**	**-.00083**	**.01293**
Stddev	.00125	.00286	.00236	.00001	.00004	.67	.00010	.00091	.00143	.0093	.00015	.00125	.00434
%RSD	2.8526	51.828	7.4505	.92337	3.8083	.26332	5.5582	33.658	92.797	.17581	2.4589	151.33	33.558
#1	.04481	.00350	.03335	-.00085	-.00113	255.14	.00164	.00206	.00254	5.2906	-.00608	-.00172	.01600
#2	.04304	.00754	.03002	-.00086	-.00107	254.19	.00178	.00335	.00053	5.3037	-.00630	.00006	.00986
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**.00046**	**5.0766**	**-.02387**	**.00247**	**10.371**	**.00487**	**.00244**	**-.11075**
Stddev	.00090	.00002	.0054	.00020	.00009	.009	.00069	.00032	.00060
%RSD	105.82	4.3922	.10669	.85581	3.6300	.08922	14.166	13.238	.53951
#1	.00148	.00045	5.0804	-.02401	.00253	10.365	.00438	.00266	-.11118
#2	.00021	.00048	5.0728	-.02372	.00240	10.378	.00536	.00221	-.11033
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5430.1**	**69179.**	**5013.3**
Stddev	10.1	67.	19.6
%RSD	.18659	.09632	.39019
#1	5437.2	69132.	4999.5
#2	5422.9	69226.	5027.1

Sample Name: CCV-1190978 Acquired: 12/28/2011 23:58:27 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51930**	**.49787**	**1.0059**	**.51736**	**.51488**	**.48658**	**.00123**	**5.0362**	**.51312**	**.51602**	**.51414**	**.50230**	**2.4479**
Stddev	.00073	.00200	.0079	.00060	.00161	.00156	.00054	.0252	.00028	.00001	.00033	.00012	.0178
%RSD	.14119	.40156	.78189	.11595	.31245	.31997	43.587	.50003	.05444	.00184	.06508	.02325	.72800
#1	.51878	.49645	1.0115	.51693	.51374	.48548	.00161	5.0184	.51293	.51601	.51438	.50238	2.4353
#2	.51982	.49928	1.0004	.51778	.51602	.48768	.00085	5.0540	.51332	.51603	.51390	.50222	2.4605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.079**	**1.0275**	**19.883**	**.49662**	**.50663**	**5.2238**	**.51149**	**1.0049**	**1.0266**	**.00508**	**1.0114**	**.99940**	**4.8281**
Stddev	.257	.0061	.067	.00108	.00001	.0046	.00040	.0001	.0001	.00113	.0011	.00285	.0490
%RSD	.51320	.59563	.33834	.21799	.00223	.08784	.07902	.00554	.00585	22.196	.11032	.28554	1.0158
#1	49.897	1.0231	19.835	.49585	.50664	5.2271	.51120	1.0049	1.0265	.00429	1.0106	.99738	4.7935
#2	50.260	1.0318	19.930	.49738	.50662	5.2206	.51177	1.0049	1.0266	.00588	1.0122	1.0014	4.8628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0009**	**.49809**	**-.00494**	**.50695**	**1.0533**	**.01653**	**.51257**	**.49508**	**.49857**
Stddev	.0019	.00273	.00021	.00034	.0050	.01354	.00074	.00208	.00232
%RSD	.19464	.54858	4.2973	.06722	.47444	81.945	.14427	.41963	.46597
#1	1.0023	.49616	-.00509	.50671	1.0498	.00695	.51309	.49361	.49693
#2	.99956	.50002	-.00479	.50719	1.0569	.02610	.51204	.49655	.50021
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5555.8**	**71700.**	**5060.7**
Stddev	6.6	34.	13.1
%RSD	.11920	.04728	.25980
#1	5551.1	71724.	5070.0
#2	5560.4	71676.	5051.4

Sample Name: CCB Acquired: 12/29/2011 0:00:47 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	W **-.02422**	**.00182**	F **.00741**	**.00002**	**.00000**	**-.00231**	**-.00154**	**.00009**	**.00001**
Stddev	.00008	.00002	.00174	.00033	.00006	.0000	.00245	.00002	.00004	.00022
%RSD	16.326	.07388	95.818	4.4615	393.10	1053.7	105.98	1.1683	48.702	2503.5
#1	.00053	-.02420	.00305	.00765	.00006	.00003	-.00405	-.00153	.00011	.00016
#2	.00042	-.02423	.00059	.00718	-.00003	-.00003	-.00058	-.00156	.00006	-.00015
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00312						
Low Limit		-.01800		-.00312						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00014**	**-.00024**	**.02613**	F **.00580**	**.00010**	**-.00015**	**.00042**	F **.14749**	**.00028**
Stddev	.00001	.00013	.00310	.00555	.00031	.00124	.00006	.00000	.00627	.00013
%RSD	20.397	91.839	1312.5	21.227	5.3851	1236.5	41.212	.37805	4.2514	46.633
#1	-.00003	-.00023	-.00243	.02221	.00558	.00098	-.00010	.00042	.14305	.00019
#2	-.00002	-.00005	.00196	.03006	.00602	-.00078	-.00019	.00042	.15192	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					.00522				.10000	
Low Limit					-.00522				-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00271**	**-.00014**	**.00182**	W **.00392**	**-.00005**	**-.00843**	**.00005**	**.00014**	**.00017**	**.00006**
Stddev	.00046	.00066	.00034	.00225	.00021	.00926	.00020	.00003	.00041	.00000
%RSD	17.032	471.82	18.788	57.433	397.89	109.84	430.62	21.302	242.78	3.0304
#1	-.00239	.00033	.00158	.00233	-.00020	-.01498	-.00009	.00012	-.00012	.00006
#2	-.00304	-.00061	.00207	.00551	.00010	-.00188	.00019	.00016	.00046	.00006
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00314						
Low Limit				-.00314						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00765**	**-.00017**	**.00176**	**.00091**
Stddev	.00089	.00549	.00001	.00006	.00085
%RSD	990.54	71.837	7.2119	3.1357	93.765
#1	-.00072	-.00376	-.00016	.00172	.00151
#2	.00054	-.01153	-.00018	.00180	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5663.9**	**74027.**	**5101.8**
Stddev	11.9	35.	7.6
%RSD	.21026	.04695	.14818
#1	5672.3	74052.	5096.4
#2	5655.4	74003.	5107.1

Sample Name: CCVL1192076 Acquired: 12/29/2011 0:03:24 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01093**	**.08350**	W **.01834**	**.10886**	**.01009**	**.00094**	W **.12168**	**.19801**	**.00508**	**.01077**	**.01029**
Stddev	.00013	.00041	.00039	.00035	.00023	.00009	.00271	.00011	.00007	.00004	.00001
%RSD	1.2077	.49359	2.1051	.32330	2.2560	9.4741	2.2244	.05572	1.3256	.33226	.06760
#1	.01083	.08321	.01807	.10911	.00993	.00088	.12359	.19793	.00513	.01074	.01029
#2	.01102	.08379	.01861	.10861	.01025	.00100	.11976	.19809	.00503	.01079	.01028
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.01500				.10000				
Range			20.000%				20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01561**	**.09617**	**2.9440**	F **.01442**	**.21038**	**.01002**	**.01997**	**1.1207**	**.04208**	**2.9487**	**.01044**
Stddev	.00037	.00185	.0066	.00118	.00070	.00004	.00005	.0048	.00009	.0080	.00076
%RSD	2.3812	1.9213	.22542	8.2058	.33466	.42624	.24944	.42657	.20533	.27133	7.2660
#1	.01587	.09486	2.9393	.01526	.20988	.01005	.02000	1.1173	.04201	2.9430	.01098
#2	.01534	.09748	2.9487	.01358	.21088	.00999	.01993	1.1241	.04214	2.9543	.00991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				30.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00402**	**.00978**	**.01466**	**.47522**	**.10083**	**.01002**	**.01545**	**.00990**	**.01703**	W **.07218**	**.01002**
Stddev	.00121	.00095	.00224	.00181	.00016	.00004	.00137	.00041	.00029	.00785	.00052
%RSD	30.152	9.7239	15.263	.37983	.15773	.39959	8.8765	4.1525	1.6760	10.871	5.1500
#1	.00488	.00911	.01308	.47395	.10071	.00999	.01448	.01019	.01724	.07772	.00965
#2	.00317	.01045	.01624	.47650	.10094	.01004	.01642	.00961	.01683	.06663	.01038
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value										.06000	
Range										20.000%	

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02133**	**.01643**
Stddev	.00025	.00140
%RSD	1.1498	8.4971
#1	.02116	.01742
#2	.02151	.01544
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5682.1**	**73717.**	**5095.7**
Stddev	9.1	71.	22.1
%RSD	.15949	.09651	.43466
#1	5688.5	73666.	5111.3
#2	5675.6	73767.	5080.0

Sample Name: mb 280-101312/1-a Acquired: 12/29/2011 0:05:57 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.01741**	**.00192**	W **.00520**	**-.00007**	**-.00007**	**-.00418**	**.00436**	**-.00009**	**-.00015**
Stddev	.00019	.00023	.00275	.00036	.00037	.00005	.00086	.00478	.00003	.00011
%RSD	40.845	1.3157	143.42	7.0072	495.06	68.213	20.526	109.40	32.394	72.605
#1	.00060	-.01758	.00387	.00546	.00018	-.00011	-.00478	.00774	-.00011	-.00007
#2	.00033	-.01725	-.00003	.00494	-.00033	-.00004	-.00357	.00099	-.00007	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00500						
Low Limit				-.00500						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00010**	**.00507**	**-.02011**	**.00411**	**.00306**	**-.00002**	**.00006**	**.12223**	**.00028**
Stddev	.00014	.00009	.00173	.00942	.00265	.00280	.00005	.00013	.00188	.00022
%RSD	81.076	89.828	34.135	46.820	64.490	91.500	206.20	209.02	1.5342	78.815
#1	-.00028	-.00004	.00384	-.02677	.00599	.00503	-.00006	.00016	.12090	.00013
#2	-.00007	-.00016	.00629	-.01346	.00224	.00108	.00001	-.00003	.12356	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00088**	**-.00033**	**.00372**	**-.00020**	**-.00146**	**-.01555**	**.00020**	**.00007**	**-.00050**	**-.00008**
Stddev	.00034	.00019	.00108	.00061	.00055	.01479	.00002	.00006	.00006	.00014
%RSD	38.420	58.000	28.988	305.61	37.634	95.071	8.4858	88.992	12.971	176.87
#1	-.00112	-.00046	.00448	-.00063	-.00107	-.00510	.00019	.00003	-.00055	-.00018
#2	-.00064	-.00019	.00296	.00023	-.00184	-.02601	.00022	.00012	-.00045	.00002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00129**	**.01672**	**-.00006**	**.00262**	**.00014**
Stddev	.00082	.02349	.00022	.00021	.00102
%RSD	63.595	140.47	351.64	8.0932	715.28
#1	-.00071	.03333	-.00022	.00247	-.00058
#2	-.00187	.00011	.00009	.00277	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5610.1**	**73766.**	**5096.7**
Stddev	7.1	433.	6.7
%RSD	.12700	.58703	.13229
#1	5615.2	73460.	5101.5
#2	5605.1	74072.	5091.9

Sample Name: lcs 280-101312/2-a Acquired: 12/29/2011 0:08:32 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05465**	**1.9013**	**.97870**	**.99010**	**2.0125**	**.04754**	**2.1435**	**48.263**	**.09557**	**.49406**
Stddev	.00022	.0015	.00071	.00379	.0077	.00021	.0128	.246	.00094	.00057
%RSD	.39521	.07781	.07215	.38311	.38068	.45097	.59688	.51057	.97864	.11607
#1	.05450	1.9024	.97820	.99278	2.0180	.04770	2.1525	48.438	.09623	.49446
#2	.05480	1.9003	.97920	.98742	2.0071	.04739	2.1345	48.089	.09490	.49365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20124**	**.24470**	**.95312**	**49.651**	**1.0155**	**47.434**	**.49068**	**1.0040**	**51.267**	**.49300**
Stddev	.00065	.00003	.00592	.236	.0055	.139	.00097	.0026	.155	.00126
%RSD	.32121	.01329	.62063	.47515	.54586	.29369	.19756	.25416	.30305	.25645
#1	.20170	.24473	.95730	49.818	1.0194	47.335	.49000	1.0058	51.377	.49389
#2	.20078	.24468	.94894	49.485	1.0116	47.532	.49137	1.0022	51.157	.49211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9766**	**.49814**	**.01226**	**.49854**	**1.9029**	**9.5800**	**1.9407**	**.98121**	**.99557**	**1.0186**
Stddev	.0171	.00007	.00331	.00399	.0110	.0288	.0012	.00352	.00153	.0017
%RSD	.17112	.01421	26.977	.80123	.58041	.30105	.05969	.35833	.15348	.17124
#1	9.9887	.49809	.01459	.50137	1.9107	9.6004	1.9415	.98370	.99449	1.0173
#2	9.9646	.49819	.00992	.49572	1.8951	9.5596	1.9399	.97873	.99665	1.0198
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9759**	**2.1252**	**.51536**	**.47712**	**.48113**
Stddev	.0091	.0168	.00192	.00037	.00319
%RSD	.45809	.78883	.37320	.07727	.66294
#1	1.9823	2.1371	.51400	.47686	.48338
#2	1.9695	2.1134	.51672	.47739	.47887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5387.2**	**69606.**	**5053.3**
Stddev	9.0	98.	6.9
%RSD	.16756	.14058	.13697
#1	5380.8	69675.	5048.4
#2	5393.6	69537.	5058.1

Sample Name: lcsd 280-101312/3-a Acquired: 12/29/2011 0:10:50 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05419**	**1.8947**	**.98043**	**.98295**	**2.0246**	**.04764**	**2.1287**	**48.463**	**.09512**	**.49231**
Stddev	.00005	.0102	.00130	.00045	.0086	.00025	.0016	.217	.00023	.00076
%RSD	.08852	.53917	.13272	.04531	.42657	.52468	.07441	.44863	.24176	.15504
#1	.05416	1.8875	.97951	.98326	2.0307	.04782	2.1276	48.617	.09528	.49177
#2	.05423	1.9019	.98135	.98263	2.0185	.04747	2.1298	48.309	.09496	.49285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20063**	**.24517**	**1.0107**	**49.835**	**1.0255**	**47.489**	**.48947**	**.99872**	**51.800**	**.49075**
Stddev	.00054	.00020	.0056	.261	.0008	.053	.00054	.00137	.062	.00078
%RSD	.27090	.07981	.55021	.52409	.07340	.11207	.11127	.13674	.11974	.15989
#1	.20024	.24530	1.0146	50.020	1.0260	47.527	.48985	.99776	51.844	.49019
#2	.20101	.24503	1.0068	49.650	1.0249	47.452	.48908	.99969	51.756	.49130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9269**	**.49491**	**.01363**	**.49202**	**1.8966**	**9.5508**	**1.9228**	**.98329**	**.99602**	**1.0177**
Stddev	.0170	.00180	.00142	.00146	.0022	.0262	.0042	.00510	.00016	.0001
%RSD	.17157	.36277	10.421	.29708	.11416	.27412	.21829	.51866	.01639	.00953
#1	9.9149	.49364	.01263	.49099	1.8950	9.5694	1.9198	.98690	.99614	1.0176
#2	9.9390	.49617	.01464	.49305	1.8981	9.5323	1.9258	.97968	.99591	1.0177
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9692**	**2.1111**	**.51606**	**.47873**	**.47888**
Stddev	.0004	.0012	.00045	.00101	.00397
%RSD	.02208	.05550	.08628	.21129	.82843
#1	1.9689	2.1103	.51575	.47945	.48168
#2	1.9695	2.1120	.51638	.47802	.47607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5380.5**	**69261.**	**5039.0**
Stddev	15.7	35.	19.8
%RSD	.29126	.04990	.39324
#1	5391.6	69237.	5025.0
#2	5369.4	69286.	5053.0

Sample Name: 280-23455-a-1-b Acquired: 12/29/2011 0:13:09 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**-.02212**	**.00265**	**.02841**	**.02461**	**-.00010**	**-.00291**	**35.108**	**.00011**	**.00009**
Stddev	.00045	.00059	.00002	.00039	.00029	.00004	.00327	.155	.00001	.00005
%RSD	105.56	2.6509	.86734	1.3557	1.1629	38.344	112.42	.44178	6.4149	52.021
#1	.00011	-.02253	.00267	.02869	.02481	-.00007	-.00522	35.218	.00010	.00012
#2	.00075	-.02170	.00264	.02814	.02440	-.00013	-.00060	34.998	.00011	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00356**	**.00214**	**1.4220**	**.00358**	**8.4782**	**.00001**	**.00181**	W **9.3892**	W **9.8774**
Stddev	.00007	.00016	.00297	.0073	.00162	.0036	.00001	.00007	.0332	.1665
%RSD	391.55	4.3782	138.81	.51049	45.230	.04260	89.322	3.6909	.35389	1.6858
#1	-.00003	.00345	.00423	1.4169	.00473	8.4756	.00000	.00186	9.4127	9.9951
#2	.00007	.00367	.00004	1.4271	.00244	8.4807	.00002	.00176	9.3657	9.7596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn
High Limit									9.0000	500.00
Low Limit									-.50000	10.000

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00048**	**.00025**	**6.9920**	**.00141**	**.00188**	**.48134**	**-.00024**	**.16088**	**.00103**
Stddev	.00000	.00008	.00009	.0158	.00108	.00131	.00135	.00033	.00076	.00039
%RSD	.14201	16.220	35.374	.22540	76.557	69.609	.28136	140.43	.47095	37.779
#1	.00059	.00054	.00018	6.9809	.00217	.00281	.48038	-.00047	.16141	.00131
#2	.00058	.00043	.00031	7.0032	.00065	.00096	.48229	.00000	.16034	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.00117**	**-.00035**	**.00040**	**.00337**	**.00141**
Stddev	.00018	.00029	.03205	.00001	.00051	.00002
%RSD	69.746	24.815	9128.4	2.9641	15.224	1.2773
#1	-.00013	-.00097	-.02301	.00041	.00373	.00142
#2	-.00039	-.00138	.02231	.00039	.00301	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5430.7**	**71115.**	**5035.3**
Stddev	1.7	160.	21.7
%RSD	.03105	.22461	.43104
#1	5429.5	71002.	5020.0
#2	5431.9	71228.	5050.7

Sample Name: 280-23455-a-1-bSD@5 Acquired: 12/29/2011 0:15:43 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.02301**	**.00132**	**.00996**	**.00529**	**-.00008**	**-.00249**	**7.2649**	**.00017**	**.00001**
Stddev	.00028	.00050	.00261	.00016	.00018	.00001	.00033	.0071	.00002	.00001
%RSD	169.02	2.1564	198.46	1.6297	3.3271	13.109	13.104	.09784	11.204	124.71
#1	.00037	-.02336	-.00053	.00985	.00541	-.00009	-.00226	7.2598	.00015	.00002
#2	-.00003	-.02266	.00317	.01008	.00517	-.00007	-.00272	7.2699	.00018	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00016**	**.00014**	**.28674**	**.00537**	**1.8102**	**-.00010**	**.00037**	**2.0159**	**.00002**
Stddev	.00001	.00004	.00015	.00479	.00227	.0029	.00000	.00004	.0002	.00014
%RSD	32.094	22.363	109.90	1.6705	42.294	.15823	2.1120	11.274	.00823	705.40
#1	.00003	.00018	.00025	.28335	.00376	1.8122	-.00010	.00040	2.0161	-.00008
#2	.00005	.00013	.00003	.29013	.00697	1.8081	-.00010	.00034	2.0158	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00069**	**1.4360**	**.00028**	**-.00292**	**.08223**	**.00039**	**.03318**	**-.00096**	**-.00022**
Stddev	.00075	.00016	.0064	.00045	.00097	.00405	.00006	.00003	.00059	.00001
%RSD	236.60	22.995	.44444	161.04	33.094	4.9286	15.946	.09166	61.629	5.7417
#1	.00021	.00058	1.4405	-.00004	-.00360	.08510	.00034	.03320	-.00054	-.00023
#2	-.00085	.00081	1.4314	.00059	-.00223	.07936	.00043	.03316	-.00138	-.00021
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00131**	**.00339**	**.00008**	**.00460**	**.00056**
Stddev	.00011	.00001	.00027	.00000	.00079
%RSD	8.3237	.16803	348.87	.06808	139.46
#1	-.00139	.00340	.00026	.00460	.00112
#2	-.00123	.00339	-.00011	.00459	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5572.3**	**72671.**	**5058.5**
Stddev	2.8	16.	4.4
%RSD	.04973	.02138	.08660
#1	5570.3	72660.	5055.4
#2	5574.3	72682.	5061.6

Sample Name: 280-23455-a-2-b Acquired: 12/29/2011 0:18:16 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.02091**	**.00239**	**.26886**	**.05021**	**.00007**	**-.00360**	**25.339**	**.00029**	**.00017**
Stddev	.00014	.00092	.00202	.00064	.00026	.00001	.00044	.016	.00012	.00014
%RSD	47.597	4.4198	84.574	.23690	.51668	9.1796	12.290	.06496	41.548	81.571
#1	.00040	-.02025	.00382	.26931	.05039	.00007	-.00391	25.327	.00038	.00026
#2	.00020	-.02156	.00096	.26841	.05002	.00008	-.00329	25.350	.00021	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00309**	**.00950**	**5.7994**	**.08008**	**21.026**	**.00003**	**.00154**	**174.62**	**.00281**
Stddev	.00001	.00020	.00082	.0530	.00380	.060	.00004	.00004	.19	.00010
%RSD	9.9627	6.5221	8.6716	.91420	4.7506	.28505	110.11	2.4606	.10985	3.6727
#1	-.00006	.00295	.01008	5.8369	.08277	20.984	.00001	.00151	174.76	.00273
#2	-.00006	.00323	.00891	5.7619	.07739	21.069	.00006	.00156	174.49	.00288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01343**	**-.00005**	**45.529**	**.00021**	**-.00054**	**.25405**	**-.00017**	**.27811**	**-.00039**	**-.00012**
Stddev	.00061	.00032	.055	.00027	.00097	.00759	.00015	.00017	.00055	.00006
%RSD	4.5325	674.01	.12120	124.72	181.27	2.9857	87.934	.05987	142.88	55.748
#1	.01300	.00018	45.569	.00040	-.00122	.25942	-.00007	.27799	.00000	-.00016
#2	.01386	-.00027	45.490	.00003	.00015	.24869	-.00028	.27823	-.00077	-.00007
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00116**	**.01634**	**.00117**	**.00529**	**.00009**
Stddev	.00031	.01043	.00001	.00024	.00189
%RSD	26.707	63.832	.57487	4.5489	2043.7
#1	-.00094	.00896	.00117	.00546	.00143
#2	-.00138	.02371	.00118	.00512	-.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5301.0**	**68219.**	**5011.6**
Stddev	3.8	217.	20.5
%RSD	.07218	.31791	.40835
#1	5298.3	68373.	5026.1
#2	5303.7	68066.	4997.1

Sample Name: 280-23455-a-3-b Acquired: 12/29/2011 0:20:59 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.01918**	**-.00055**	**.02899**	**.02352**	**.00001**	**-.00300**	**35.115**	**.00020**	**.00001**
Stddev	.00016	.00025	.00255	.00043	.00001	.00002	.00216	.126	.00001	.00004
%RSD	59.340	1.2916	462.83	1.4854	.03418	353.57	71.873	.35886	4.7929	584.65
#1	.00039	-.01901	.00125	.02868	.02353	-.00001	-.00453	35.026	.00021	.00003
#2	.00016	-.01936	-.00235	.02929	.02352	.00002	-.00148	35.204	.00020	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00116**	**.00306**	**1.5923**	**.00352**	**8.6071**	**-.00010**	**.00117**	**13.829**	**.00087**
Stddev	.00006	.00020	.00150	.0126	.00048	.0135	.00009	.00013	.145	.00014
%RSD	131.33	17.091	49.090	.79257	13.786	.15625	83.811	10.859	1.0461	16.601
#1	.00000	.00130	.00200	1.6012	.00317	8.5976	-.00017	.00126	13.931	.00077
#2	-.00009	.00102	.00412	1.5834	.00386	8.6166	-.00004	.00108	13.726	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00171**	**.00049**	**7.8570**	**.00029**	**.00145**	**.37045**	**.00006**	**.18198**	**.00112**	**-.00050**
Stddev	.00152	.00096	.0031	.00088	.00331	.01325	.00020	.00069	.00155	.00017
%RSD	89.064	194.87	.03912	303.51	228.32	3.5767	326.41	.37887	138.21	34.713
#1	.00279	.00117	7.8548	.00091	-.00089	.37982	-.00008	.18149	.00003	-.00038
#2	.00063	-.00019	7.8591	-.00033	.00379	.36108	.00020	.18247	.00222	-.00062
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00130**	**.00040**	**.01472**	**.00145**
Stddev	.00046	.00681	.00032	.00008	.00006
%RSD	150.22	522.64	80.057	.55889	4.3049
#1	.00002	-.00351	.00017	.01478	.00149
#2	-.00064	.00612	.00063	.01467	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5443.2**	**71050.**	**5065.3**
Stddev	6.0	14.	12.6
%RSD	.11016	.01970	.24876
#1	5447.4	71060.	5056.4
#2	5438.9	71040.	5074.2

Sample Name: 280-23455-a-4-b Acquired: 12/29/2011 0:23:31 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.02779**	**.00060**	**.01209**	**.01510**	**-.00003**	**-.00365**	**11.036**	**.00024**	**-.00009**
Stddev	.00009	.00027	.00001	.00009	.00005	.00001	.00026	.020	.00010	.00014
%RSD	16.579	.98202	2.1921	.71344	.34980	37.003	7.1112	.18250	40.995	161.34
#1	.00062	.02759	.00061	.01216	.01507	-.00004	-.00346	11.050	.00030	.00001
#2	.00049	.02798	.00059	.01203	.01514	-.00002	-.00383	11.021	.00017	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00153**	**.11786**	**.79531**	**.00538**	**2.6781**	**.00112**	**.00022**	**5.2034**	**-.00007**
Stddev	.00004	.00036	.00046	.04133	.00102	.0046	.00001	.00005	.0150	.00017
%RSD	30.552	23.429	.39049	5.1973	18.860	.17241	.70529	20.414	.28824	235.96
#1	.00011	.00178	.11818	.76608	.00466	2.6814	.00111	.00026	5.2140	.00005
#2	.00017	.00127	.11753	.82454	.00610	2.6748	.00112	.00019	5.1928	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00271**	**-.00076**	**2.3983**	**-.00030**	**.00231**	**2.2242**	**-.00029**	**.05908**	**.00065**	**.00038**
Stddev	.00097	.00030	.0025	.00035	.00125	.0073	.00041	.00013	.00069	.00017
%RSD	35.922	38.978	.10350	115.18	54.073	.33013	142.65	.21428	104.92	44.030
#1	.00340	-.00055	2.3965	-.00055	.00319	2.2293	-.00058	.05917	.00114	.00050
#2	.00202	-.00097	2.4000	-.00006	.00143	2.2190	.00000	.05899	.00017	.00026
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00182**	**.00191**	**.00003**	**.00487**	**.00050**
Stddev	.00156	.00412	.00041	.00017	.00158
%RSD	85.559	216.16	1308.2	3.5789	314.52
#1	-.00292	-.00101	-.00026	.00474	.00162
#2	-.00072	.00482	.00032	.00499	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5501.6**	**72234.**	**5058.7**
Stddev	.6	151.	12.0
%RSD	.01054	.20885	.23821
#1	5501.2	72128.	5050.2
#2	5502.0	72341.	5067.2

Sample Name: CCVH-1190977 Acquired: 12/29/2011 0:26:05 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00335**	**49.494**	**.00541**	**.00468**	**.00034**	**.00004**	**1.0276**	**.01048**	**-.00179**	**.00220**	**.00001**	**-.00327**	**48.534**
Stddev	.00034	.192	.00547	.00059	.00011	.00005	.0037	.00194	.00014	.00037	.00017	.00005	.297
%RSD	10.082	.38838	101.13	12.617	32.619	142.58	.36331	18.535	7.8571	16.997	2006.0	1.6303	.61151
#1	.00311	49.358	.00154	.00509	.00026	.00007	1.0249	.01185	-.00169	.00246	-.00011	-.00330	48.324
#2	.00359	49.630	.00928	.00426	.00042	.00000	1.0302	.00910	-.00189	.00193	.00013	-.00323	48.744
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08313**	**.00614**	**.02732**	**-.00079**	**-.00120**	**255.23**	**.00170**	**.00462**	**.00090**	**5.3086**	**-.00485**	**-.00038**	**.00740**
Stddev	.02713	.00023	.00071	.00003	.00015	.80	.00003	.00020	.00014	.0180	.00087	.00170	.00663
%RSD	32.642	3.7444	2.6137	3.4177	12.328	.31304	1.7470	4.3228	15.357	.33821	17.974	447.52	89.575
#1	.06394	.00598	.02782	-.00081	-.00110	254.66	.00172	.00476	.00080	5.2959	-.00547	.00082	.00271
#2	.10231	.00630	.02681	-.00077	-.00131	255.79	.00168	.00448	.00100	5.3213	-.00423	-.00158	.01208
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00045**	**5.0967**	**-.02418**	**.00063**	**10.385**	**.00538**	**.00246**	**-.11681**
Stddev	.00041	.00002	.0035	.00012	.00008	.067	.00005	.00003	.00004
%RSD	66.714	3.6943	.06926	.47983	13.204	.64188	.87111	1.2902	.03485
#1	.00032	.00046	5.0942	-.02410	.00069	10.338	.00535	.00248	-.11684
#2	.00090	.00043	5.0992	-.02426	.00057	10.432	.00541	.00243	-.11679
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5443.4**	**69456.**	**5016.5**
Stddev	5.4	122.	14.3
%RSD	.09847	.17559	.28510
#1	5447.2	69370.	5026.6
#2	5439.6	69543.	5006.4

Sample Name: CCV-1190978 Acquired: 12/29/2011 0:28:38 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52516**	**.50002**	**1.0049**	**.51555**	**.51466**	**.48239**	**-.00026**	**5.0309**	**.51498**	**.51698**	**.51456**	**.50268**	**2.4243**
Stddev	.00099	.00258	.0050	.00014	.00048	.00002	.00192	.0055	.00015	.00088	.00087	.00160	.0050
%RSD	.18903	.51625	.49412	.02739	.09414	.00407	725.27	.11015	.02972	.17084	.16911	.31928	.20811
#1	.52446	.49820	1.0014	.51545	.51432	.48238	-.00162	5.0269	.51488	.51761	.51518	.50154	2.4279
#2	.52586	.50185	1.0084	.51565	.51501	.48240	.00109	5.0348	.51509	.51636	.51395	.50381	2.4208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.921**	**1.0279**	**19.934**	**.49725**	**.50550**	**5.1848**	**.51043**	**1.0097**	**1.0301**	**.00645**	**1.0108**	**1.0048**	**4.8257**
Stddev	.041	.0034	.084	.00169	.00091	.0115	.00129	.0048	.0028	.00100	.0001	.0016	.0070
%RSD	.08159	.33198	.42004	.33975	.18096	.22240	.25265	.47161	.27388	15.461	.01451	.15999	.14480
#1	49.892	1.0255	19.874	.49605	.50615	5.1930	.51134	1.0063	1.0321	.00574	1.0107	1.0059	4.8208
#2	49.949	1.0303	19.993	.49844	.50485	5.1767	.50951	1.0131	1.0281	.00715	1.0109	1.0037	4.8306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99998**	**.49445**	**-.00634**	**.51022**	**1.0565**	**.00702**	**.51645**	**.50001**	**.49945**
Stddev	.00126	.00022	.00050	.00147	.0015	.00582	.00175	.00119	.00078
%RSD	.12567	.04397	7.8213	.28870	.14593	82.880	.33870	.23878	.15562
#1	1.0009	.49429	-.00669	.50918	1.0576	.01114	.51522	.49917	.50000
#2	.99909	.49460	-.00599	.51127	1.0554	.00291	.51769	.50086	.49890
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5553.5**	**71452.**	**5020.0**
Stddev	9.1	136.	6.3
%RSD	.16347	.19065	.12508
#1	5547.1	71548.	5024.5
#2	5560.0	71355.	5015.6

Sample Name: CCB Acquired: 12/29/2011 0:30:57 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	W **-.02455**	**.00188**	F **.00326**	**.00019**	**-.00004**	**.00089**	**-.00356**	**-.00017**	**-.00012**
Stddev	.00020	.00007	.00170	.00075	.00012	.00000	.00025	.00311	.00001	.00015
%RSD	38.573	.27525	90.359	22.935	62.359	9.4440	28.429	87.504	7.3223	122.08
#1	.00067	-.02450	.00308	.00379	.00028	-.00005	.00107	-.00576	-.00016	-.00002
#2	.00038	-.02459	.00068	.00274	.00011	-.00004	.00071	-.00136	-.00018	-.00023
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00312						
Low Limit		-.01800		-.00312						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00020**	**-.00115**	**.01096**	W **.00476**	**.00028**	**-.00021**	**.00053**	F **.13841**	**.00031**
Stddev	.00013	.00018	.00122	.00112	.00006	.00069	.00003	.00014	.00039	.00001
%RSD	1448.3	87.084	105.32	10.177	1.3567	248.20	14.351	27.229	.28469	1.7952
#1	.00008	-.00008	-.00201	.01175	.00481	-.00021	-.00019	.00043	.13868	.00031
#2	-.00010	-.00033	-.00029	.01017	.00471	.00076	-.00023	.00063	.13813	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					.00261				.10000	
Low Limit					-.00261				-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00199**	**-.00048**	**.00145**	W **.00435**	**-.00056**	**-.01686**	**-.00005**	**.00000**	**.00028**	**.00001**
Stddev	.00073	.00002	.00224	.00020	.00278	.00504	.00003	.0000	.00031	.00021
%RSD	36.794	4.2459	154.16	4.7006	494.64	29.870	56.035	2259.7	112.26	2791.6
#1	-.00147	-.00047	-.00013	.00449	.00140	-.02042	-.00008	-.00002	.00050	.00015
#2	-.00250	-.00050	.00303	.00420	-.00252	-.01330	-.00003	.00002	.00006	-.00014
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00314						
Low Limit				-.00314						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00572**	**.00008**	**.00137**	**.00210**
Stddev	.00033	.00283	.00032	.00019	.00002
%RSD	76.856	49.412	371.84	14.156	.85770
#1	-.00020	.00372	-.00014	.00123	.00211
#2	-.00067	.00772	.00031	.00151	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5592.5**	**72586.**	**5020.5**
Stddev	8.2	279.	18.2
%RSD	.14590	.38497	.36197
#1	5586.7	72784.	5033.3
#2	5598.2	72388.	5007.6

Sample Name: CCVL1192076 Acquired: 12/29/2011 0:33:32 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01127**	**.08302**	**.01706**	**.10616**	**.01015**	**.00090**	W **.12147**	**.19460**	**.00511**	**.01080**	**.01024**
Stddev	.00029	.00033	.00309	.00021	.00028	.00001	.00233	.00511	.00002	.00007	.00000
%RSD	2.5283	.39293	18.128	.19865	2.7151	.67591	1.9212	2.6270	.37906	.63886	.03138
#1	.01147	.08279	.01925	.10601	.01034	.00090	.11982	.19822	.00513	.01084	.01023
#2	.01107	.08325	.01487	.10631	.00995	.00091	.12312	.19099	.00510	.01075	.01024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							.10000				
Range							20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01524**	**.09394**	**2.9734**	F **.01491**	**.20876**	**.00998**	**.01982**	**1.1339**	**.04219**	**2.9497**	**.00934**
Stddev	.00002	.00171	.0131	.00206	.00000	.00001	.00039	.0082	.00004	.0058	.00120
%RSD	.10225	1.8249	.44099	13.816	.00129	.06965	1.9496	.72330	.10028	.19632	12.825
#1	.01523	.09516	2.9641	.01637	.20876	.00998	.01954	1.1281	.04222	2.9456	.01019
#2	.01525	.09273	2.9826	.01346	.20876	.00997	.02009	1.1397	.04216	2.9538	.00849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				30.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00194**	W **.01212**	**.01423**	**.46192**	**.10087**	**.00995**	**.01579**	**.01009**	**.01703**	W **.07216**	**.00978**
Stddev	.00022	.00195	.00394	.01605	.00003	.00001	.00001	.00008	.00075	.00523	.00017
%RSD	11.455	16.085	27.672	3.4742	.03139	.12469	.03978	.75050	4.3818	7.2492	1.6930
#1	.00209	.01074	.01702	.47327	.10085	.00996	.01578	.01014	.01650	.06847	.00989
#2	.00178	.01350	.01145	.45057	.10090	.00994	.01579	.01003	.01755	.07586	.00966
Check ?	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value		.01000								.06000	
Range		20.000%								20.000%	

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02147**	**.01461**
Stddev	.00035	.00212
%RSD	1.6367	14.478
#1	.02122	.01611
#2	.02172	.01312
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5654.4**	**73115.**	**5068.1**
Stddev	3.0	11.	15.7
%RSD	.05306	.01481	.30940
#1	5656.5	73107.	5057.0
#2	5652.3	73122.	5079.2

Sample Name: 280-23455-a-5-b Acquired: 12/29/2011 0:36:06 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**-.01459**	**.00121**	**.00788**	**.01369**	**-.00004**	**-.00368**	**14.127**	**.00019**	**-.00019**
Stddev	.00064	.00011	.00008	.00018	.00016	.00003	.00100	.090	.00005	.00006
%RSD	128.56	.78197	6.6077	2.2578	1.1611	85.490	27.118	.63667	24.167	31.184
#1	.00004	-.01467	.00116	.00801	.01380	-.00006	-.00297	14.191	.00022	-.00015
#2	.00094	-.01451	.00127	.00776	.01358	-.00002	-.00438	14.063	.00016	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00191**	**.00061**	**1.0184**	**.00387**	**1.5372**	**.00063**	**.00009**	**14.288**	**-.00005**
Stddev	.00026	.00036	.00052	.0410	.00061	.0023	.00001	.00009	.185	.00002
%RSD	478.74	19.124	85.027	4.0283	15.828	.14767	2.2774	96.620	1.2971	39.836
#1	.00023	.00216	.00024	1.0474	.00430	1.5388	.00062	.00003	14.157	-.00006
#2	-.00013	.00165	.00098	.98942	.00343	1.5356	.00064	.00016	14.419	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04217**	**-.00042**	**3.8599**	**.00164**	**.00078**	**3.2462**	**-.00002**	**.05279**	**-.00013**	**-.00039**
Stddev	.00113	.00054	.0048	.00128	.00027	.0213	.00022	.00023	.00084	.00018
%RSD	2.6738	129.18	.12387	77.906	34.055	.65659	1369.2	.44110	672.25	45.430
#1	.04138	-.00004	3.8566	.00255	.00059	3.2613	-.00017	.05295	-.00072	-.00051
#2	.04297	-.00081	3.8633	.00074	.00097	3.2312	.00014	.05262	.00047	-.00026
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00170**	**-.00051**	**.00022**	**.01707**	**.00154**
Stddev	.00020	.00642	.00026	.00025	.00092
%RSD	12.030	1251.1	118.88	1.4733	59.394
#1	-.00156	-.00506	.00040	.01725	.00219
#2	-.00185	.00403	.00003	.01689	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5474.8**	**71785.**	**5031.9**
Stddev	2.7	225.	27.7
%RSD	.05023	.31408	.55030
#1	5472.9	71945.	5012.3
#2	5476.8	71626.	5051.5

Sample Name: 280-23455-a-6-b Acquired: 12/29/2011 0:38:39 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.01373**	**.00105**	**.01910**	**.01311**	**-.00005**	**-.00347**	**25.195**	**.00025**	**-.00011**
Stddev	.00002	.00000	.00215	.00029	.00032	.00011	.00171	.093	.00001	.00000
%RSD	7.6927	.01226	205.45	1.5178	2.4332	230.85	49.197	.37019	5.0279	2.1895
#1	.00030	-.01373	-.00047	.01930	.01334	-.00012	-.00468	25.129	.00026	-.00011
#2	.00033	-.01373	.00257	.01889	.01289	.00003	-.00226	25.261	.00025	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00186**	**.01342**	**1.9977**	**.00774**	**7.8763**	**-.00001**	**.00043**	**19.330**	**.00097**
Stddev	.00003	.00037	.00048	.0336	.00063	.0019	.00005	.00017	.598	.00020
%RSD	28.203	20.127	3.5684	1.6807	8.1449	.02392	411.04	38.172	3.0923	21.130
#1	.00011	.00160	.01309	1.9739	.00819	7.8750	.00003	.00055	18.907	.00082
#2	.00008	.00213	.01376	2.0214	.00730	7.8777	-.00005	.00032	19.753	.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02888**	**.00054**	**5.0758**	**-.00114**	**-.00028**	**1.8806**	**-.00036**	**.16066**	**-.00024**	**-.00009**
Stddev	.00206	.00097	.0151	.00028	.00203	.0286	.00011	.00027	.00026	.00007
%RSD	7.1355	181.75	.29835	24.551	723.16	1.5226	30.795	.16805	105.82	78.478
#1	.03034	.00123	5.0865	-.00133	.00116	1.8604	-.00044	.16047	-.00006	-.00004
#2	.02743	-.00015	5.0651	-.00094	-.00172	1.9009	-.00028	.16085	-.00042	-.00013
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00165**	**.01898**	**.00062**	**.01224**	**.00192**
Stddev	.00027	.00109	.00040	.00019	.00004
%RSD	16.353	5.7520	64.929	1.5888	2.0942
#1	-.00185	.01821	.00090	.01238	.00189
#2	-.00146	.01975	.00033	.01211	.00195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5452.3**	**71287.**	**5039.0**
Stddev	10.9	63.	16.7
%RSD	.20080	.08905	.33223
#1	5444.5	71332.	5050.8
#2	5460.0	71242.	5027.2

Sample Name: 280-23455-a-7-b Acquired: 12/29/2011 0:41:13 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.02152**	**.00261**	**.02635**	**.02403**	**-.00006**	**-.00423**	**36.986**	**.00019**	**-.00013**
Stddev	.00020	.00003	.00033	.00014	.00038	.00004	.00023	.170	.00005	.00004
%RSD	110.62	.12090	12.578	.53588	1.5662	66.062	5.4248	.46053	27.982	26.425
#1	.00004	-.02150	.00238	.02645	.02429	-.00009	-.00439	37.106	.00023	-.00016
#2	.00033	-.02153	.00285	.02625	.02376	-.00003	-.00407	36.865	.00015	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00055**	**.00547**	**1.4261**	**.00609**	**11.854**	**-.00005**	**.00104**	**7.1795**	**.00010**
Stddev	.00004	.00013	.00255	.0377	.00089	.007	.00001	.00013	.0113	.00002
%RSD	11.996	23.680	46.636	2.6429	14.616	.06004	15.031	12.385	.15716	24.461
#1	.00037	.00064	.00728	1.3995	.00672	11.849	-.00004	.00095	7.1875	.00008
#2	.00031	.00046	.00367	1.4528	.00546	11.859	-.00006	.00113	7.1715	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00029**	**7.0141**	**.00188**	**-.00097**	**.77865**	**.00008**	**.12971**	**-.00002**	**-.00031**
Stddev	.00038	.00143	.0153	.00075	.00298	.01126	.00058	.00062	.00027	.00001
%RSD	186.94	487.49	.21834	40.031	307.37	1.4464	716.06	.48043	1360.6	3.0271
#1	.00047	-.00131	7.0249	.00242	.00114	.78661	-.00033	.13015	.00017	-.00032
#2	-.00006	.00072	7.0033	.00135	-.00308	.77069	.00049	.12927	-.00021	-.00030
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.00189**	**.00050**	**.00467**	**.00044**
Stddev	.00062	.00849	.00052	.00026	.00086
%RSD	95.296	448.26	104.03	5.4647	193.67
#1	-.00109	-.00411	.00013	.00449	.00105
#2	-.00021	.00790	.00087	.00485	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5433.5**	**70938.**	**5053.3**
Stddev	1.7	31.	4.2
%RSD	.03179	.04364	.08293
#1	5432.3	70917.	5050.4
#2	5434.7	70960.	5056.3

Sample Name: 280-23455-a-8-b Acquired: 12/29/2011 0:43:45 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**-.02090**	**.00347**	**.06497**	**.10604**	**-.00011**	**-.00344**	**52.777**	**.00033**	**-.00012**
Stddev	.00000	.00046	.00158	.00063	.00020	.00003	.00047	.099	.00004	.00005
%RSD	1.2155	2.1802	45.536	.97169	.19269	30.409	13.632	.18705	13.475	39.156
#1	.00033	-.02058	.00235	.06452	.10589	-.00013	-.00311	52.707	.00036	-.00016
#2	.00033	-.02122	.00459	.06541	.10618	-.00008	-.00378	52.847	.00030	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00165**	**.00534**	**7.8576**	**.06078**	**31.437**	**.00013**	**.00295**	**48.324**	**.00200**
Stddev	.00012	.00009	.00072	.0382	.00005	.024	.00005	.00010	.079	.00010
%RSD	269.09	5.7088	13.399	.48602	.08555	.07519	34.533	3.2863	.16426	4.8039
#1	.00004	.00159	.00584	7.8847	.06081	31.420	.00010	.00288	48.380	.00193
#2	-.00013	.00172	.00483	7.8306	.06074	31.454	.00017	.00302	48.268	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02699**	**-.00129**	**31.733**	**.00067**	**.00060**	**7.1061**	**.00034**	**.29109**	**-.00001**	**-.00054**
Stddev	.00030	.00015	.013	.00078	.00145	.0288	.00018	.00021	.00027	.00001
%RSD	1.1295	11.358	.04233	115.06	241.69	.40460	53.386	.07049	3306.7	1.7466
#1	.02677	-.00140	31.723	.00013	-.00043	7.0858	.00021	.29094	.00019	-.00053
#2	.02720	-.00119	31.742	.00122	.00163	7.1264	.00046	.29123	-.00020	-.00054
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**-.00161**	**.00199**	**.00714**	**.00105**
Stddev	.00006	.00434	.00004	.00002	.00167
%RSD	6.0029	269.69	1.9583	.32202	158.15
#1	-.00090	-.00468	.00197	.00716	.00223
#2	-.00098	.00146	.00202	.00712	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5339.8**	**69280.**	**5020.1**
Stddev	4.6	169.	5.7
%RSD	.08679	.24377	.11397
#1	5343.1	69160.	5024.2
#2	5336.5	69399.	5016.1

Sample Name: 280-23455-a-9-b Acquired: 12/29/2011 0:46:19 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.04106**	**.00514**	**.07262**	**.04989**	**-.00004**	**-.00462**	**68.271**	**.00037**	**.00012**
Stddev	.00003	.00027	.00193	.00036	.00044	.00002	.00070	.172	.00002	.00009
%RSD	6.4178	.66326	37.448	.49400	.87609	41.185	15.128	.25218	6.4604	71.219
#1	.00046	.04087	.00378	.07287	.04958	-.00003	-.00512	68.393	.00039	.00018
#2	.00042	.04126	.00650	.07236	.05020	-.00005	-.00413	68.149	.00035	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00108**	**.00304**	**10.610**	**.05413**	**35.319**	**.00002**	**.00212**	**69.422**	**.00179**
Stddev	.00014	.00007	.00025	.040	.00064	.071	.00002	.00025	.025	.00008
%RSD	56.453	6.0805	8.1895	.37379	1.1849	.20202	129.25	11.816	.03626	4.2807
#1	-.00015	.00103	.00287	10.582	.05458	35.369	.00003	.00194	69.405	.00173
#2	-.00035	.00112	.00322	10.638	.05367	35.268	.00000	.00229	69.440	.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09464**	**-.00066**	**67.387**	**.00103**	**.00115**	**1.8439**	**-.00026**	**.35956**	**.00115**	**-.00042**
Stddev	.00013	.00021	.368	.00125	.00265	.0171	.00027	.00072	.00009	.00002
%RSD	.13528	32.698	.54555	121.35	229.96	.92877	105.01	.20028	7.7165	3.9719
#1	.09455	-.00050	67.127	.00192	-.00072	1.8560	-.00007	.36006	.00121	-.00040
#2	.09473	-.00081	67.647	.00015	.00303	1.8318	-.00045	.35905	.00108	-.00043
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.00471**	**.00186**	**.00616**	**.00025**
Stddev	.00042	.00577	.00005	.00085	.00052
%RSD	86.057	122.55	2.6371	13.864	206.70
#1	-.00019	.00063	.00183	.00556	.00061
#2	-.00079	.00879	.00189	.00677	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5291.9**	**68660.**	**4990.3**
Stddev	19.8	76.	9.4
%RSD	.37498	.11118	.18758
#1	5306.0	68714.	4983.7
#2	5277.9	68606.	4996.9

Sample Name: 280-23455-a-10-b Acquired: 12/29/2011 0:48:52 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101312 6010C

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**-.01095**	**.00310**	**.01553**	**.01891**	**.00000**	**-.00299**	**35.684**	**.00012**	**-.00015**
Stddev	.00012	.00097	.00092	.00043	.00022	.0000	.00100	.010	.00004	.00015
%RSD	24.880	8.8185	29.553	2.7996	1.1751	634.01	33.420	.02796	34.195	101.08
#1	.00041	-.01027	.00245	.01522	.01907	.00001	-.00370	35.677	.00015	-.00004
#2	.00058	-.01163	.00375	.01583	.01875	-.00001	-.00228	35.692	.00009	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00088**	**.09078**	**1.1715**	**.00678**	**9.8489**	**.00030**	**.00003**	**2.1674**	**.00039**
Stddev	.00004	.00022	.00089	.0215	.00029	.0039	.00002	.00017	.0014	.00055
%RSD	47.906	24.834	.97652	1.8306	4.2158	.03975	6.4137	621.72	.06653	140.33
#1	.00011	.00072	.09141	1.1563	.00698	9.8517	.00029	-.00009	2.1684	.00079
#2	.00006	.00103	.09015	1.1867	.00658	9.8461	.00032	.00014	2.1664	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00578**	**-.00014**	**.51889**	**-.00012**	**.00218**	**9.0857**	**.00013**	**.05802**	**.00079**	**.00006**
Stddev	.00148	.00035	.00043	.00053	.00111	.0082	.00016	.00023	.00042	.00011
%RSD	25.592	249.45	.08226	446.49	50.796	.09064	125.34	.38905	52.540	190.42
#1	.00682	.00011	.51859	.00026	.00140	9.0916	.00025	.05818	.00108	.00014
#2	.00473	-.00039	.51920	-.00050	.00296	9.0799	.00001	.05786	.00050	-.00002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00147**	**.00039**	**.00737**	**-.00098**
Stddev	.00041	.01584	.00008	.00064	.00027
%RSD	387.33	1078.4	21.960	8.7270	27.525
#1	-.00018	-.01267	.00045	.00691	-.00117
#2	.00039	.00973	.00033	.00782	-.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5519.9**	**72177.**	**5058.4**
Stddev	5.1	119.	15.3
%RSD	.09319	.16507	.30250
#1	5516.3	72092.	5069.2
#2	5523.6	72261.	5047.6

Sample Name: CCVH-1190977 Acquired: 12/29/2011 0:51:25 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00337**	**49.619**	**-.00221**	**.00338**	**.00067**	**-.00001**	**1.0214**	**.01033**	**-.00165**	**.00225**	**-.00009**	**-.00359**	**48.494**
Stddev	.00009	.193	.00216	.00072	.00032	.00002	.0011	.00430	.00007	.00011	.00001	.00012	.007
%RSD	2.5683	.38862	97.608	21.333	47.557	123.37	.10625	41.614	4.3323	4.8834	9.3567	3.2893	.01342
#1	.00343	49.755	-.00374	.00287	.00045	.00000	1.0222	.00729	-.00160	.00233	-.00010	-.00367	48.489
#2	.00330	49.483	-.00069	.00389	.00090	-.00003	1.0207	.01336	-.00170	.00217	-.00009	-.00351	48.498
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02494**	**.00238**	**.03111**	**-.00078**	**-.00117**	**254.31**	**.00200**	**.00246**	**.00066**	**5.3103**	**-.00323**	**.00022**	**-.01170**
Stddev	.02143	.00236	.00503	.00003	.00034	1.25	.00029	.00002	.00003	.0114	.00046	.00048	.00912
%RSD	85.892	99.063	16.166	4.4596	29.018	.49245	14.378	.67058	3.9828	.21497	14.247	217.92	77.971
#1	.00979	.00071	.03467	-.00075	-.00093	255.20	.00179	.00244	.00068	5.3022	-.00356	-.00012	-.01814
#2	.04009	.00405	.02756	-.00080	-.00141	253.43	.00220	.00247	.00064	5.3184	-.00291	.00056	-.00525
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**.00044**	**5.1054**	**-.02383**	**.00211**	**10.369**	**.00455**	**.00226**	**-.11819**
Stddev	.00006	.00002	.0025	.00024	.00108	.056	.00002	.00049	.00243
%RSD	8.9485	5.1013	.04908	1.0180	51.219	.54233	.54479	21.881	2.0572
#1	.00069	.00042	5.1036	-.02400	.00135	10.329	.00456	.00191	-.11647
#2	.00061	.00046	5.1072	-.02366	.00288	10.409	.00453	.00261	-.11991
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5447.3**	**69245.**	**5017.0**
Stddev	.1	68.	4.5
%RSD	.00145	.09839	.09053
#1	5447.4	69196.	5020.2
#2	5447.3	69293.	5013.8

Sample Name: CCV-1190978 Acquired: 12/29/2011 0:53:55 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52303**	**.49708**	**1.0051**	**.51197**	**.51222**	**.48136**	**.00162**	**5.0189**	**.51250**	**.51646**	**.51429**	**.49980**	**2.4211**
Stddev	.00213	.00237	.0040	.00027	.00032	.00135	.00112	.0102	.00002	.00014	.00055	.00137	.0097
%RSD	.40733	.47634	.39716	.05203	.06266	.27943	69.168	.20266	.00354	.02766	.10622	.27504	.40243
#1	.52454	.49540	1.0023	.51215	.51199	.48231	.00083	5.0261	.51251	.51656	.51390	.50077	2.4279
#2	.52152	.49875	1.0079	.51178	.51244	.48041	.00241	5.0117	.51248	.51636	.51467	.49883	2.4142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.760**	**1.0230**	**19.865**	**.49665**	**.50569**	**5.1866**	**.50980**	**1.0016**	**1.0282**	**.00650**	**1.0029**	**1.0048**	**4.8135**
Stddev	.113	.0003	.039	.00054	.00020	.0258	.00006	.0024	.0004	.00074	.0049	.0009	.0086
%RSD	.22761	.03366	.19708	.10779	.04024	.49811	.01163	.24270	.04155	11.394	.48808	.09262	.17759
#1	49.840	1.0233	19.893	.49703	.50555	5.2048	.50976	1.0033	1.0279	.00702	1.0064	1.0054	4.8075
#2	49.680	1.0228	19.838	.49628	.50583	5.1683	.50984	.99991	1.0285	.00597	.99943	1.0041	4.8196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99673**	**.49248**	**-.00481**	**.50936**	**1.0531**	**.00690**	**.51554**	**.49808**	**.49419**
Stddev	.00405	.00059	.00066	.00075	.0030	.00176	.00111	.00092	.00152
%RSD	.40632	.11936	13.645	.14819	.28062	25.529	.21477	.18381	.30834
#1	.99386	.49290	-.00435	.50990	1.0510	.00815	.51632	.49743	.49527
#2	.99959	.49206	-.00528	.50883	1.0552	.00565	.51476	.49873	.49312
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5554.5**	**71555.**	**5041.4**
Stddev	1.3	18.	25.9
%RSD	.02365	.02456	.51458
#1	5555.4	71568.	5023.1
#2	5553.6	71543.	5059.8

Sample Name: CCB Acquired: 12/29/2011 0:56:15 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	W **-.02482**	**.00163**	W **.00272**	**-.00002**	**.00000**	**.00000**	**-.00323**	**.00002**	**.00004**
Stddev	.00005	.00016	.00064	.00042	.00011	.00007	.0015	.00142	.00004	.00020
%RSD	7.9959	.66382	39.612	15.587	525.98	15642.	287890.	43.843	276.49	570.60
#1	.00064	-.02494	.00117	.00302	-.00010	-.00005	-.00109	-.00423	.00005	-.00011
#2	.00057	-.02471	.00208	.00242	.00006	.00005	.00109	-.00223	-.00002	.00018
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00156						
Low Limit		-.01800		-.00156						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00014**	**-.00129**	**.01031**	W **.00519**	**.00086**	**-.00019**	**.00048**	F **.13334**	**.00028**
Stddev	.00018	.00010	.00067	.02482	.00314	.00032	.00003	.00002	.00913	.00012
%RSD	394.84	75.646	52.417	240.62	60.391	36.682	17.815	4.5448	6.8472	41.365
#1	-.00008	-.00021	-.00176	.02786	.00741	.00109	-.00021	.00047	.13979	.00020
#2	.00017	-.00006	-.00081	-.00723	.00297	.00064	-.00016	.00050	.12688	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					.00261				.10000	
Low Limit					-.00261				-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00254**	**-.00018**	**.00286**	W **.00399**	**-.00061**	**-.01093**	**-.00005**	**.00012**	**.00065**	**-.00012**
Stddev	.00148	.00008	.00188	.00059	.00231	.00111	.00068	.00005	.00068	.00025
%RSD	58.230	44.629	65.765	14.713	376.76	10.160	1312.8	37.810	104.99	207.72
#1	-.00149	-.00012	.00419	.00358	.00102	-.01014	-.00053	.00016	.00114	-.00029
#2	-.00358	-.00024	.00153	.00441	-.00225	-.01171	.00043	.00009	.00017	.00006
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00314						
Low Limit				-.00314						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.01504**	**.00018**	**.00148**	**-.00084**
Stddev	.00070	.01025	.00065	.00042	.00162
%RSD	256.21	68.149	370.87	28.078	192.26
#1	-.00076	.00779	-.00029	.00119	-.00199
#2	.00022	.02229	.00064	.00177	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5580.3**	**72882.**	**5011.6**
Stddev	4.5	115.	15.5
%RSD	.08093	.15838	.30945
#1	5583.5	72964.	5000.6
#2	5577.1	72800.	5022.5

Sample Name: CCVL1192076 Acquired: 12/29/2011 0:58:52 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01123**	**.08352**	**.01475**	**.10543**	**.01017**	**.00096**	W **.12046**	**.19570**	**.00505**	**.01075**	**.01031**
Stddev	.00005	.00039	.00023	.00085	.00008	.00007	.00115	.00175	.00013	.00006	.00006
%RSD	.46675	.46354	1.5534	.80694	.78203	7.7146	.95240	.89373	2.4831	.51796	.59404
#1	.01119	.08324	.01459	.10483	.01023	.00090	.11965	.19446	.00496	.01079	.01035
#2	.01126	.08379	.01491	.10604	.01011	.00101	.12127	.19694	.00514	.01071	.01026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							.10000				
Range							20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01508**	**.09506**	**2.9219**	F **.01304**	**.20609**	**.00993**	**.01976**	**1.1290**	**.04222**	**2.9417**	**.01000**
Stddev	.00006	.00096	.0162	.00088	.00007	.00006	.00020	.0058	.00004	.0009	.00008
%RSD	.39331	1.0138	.55516	6.7285	.03459	.65112	1.0302	.51126	.08907	.02929	.77948
#1	.01513	.09574	2.9104	.01242	.20604	.00997	.01962	1.1331	.04224	2.9411	.01005
#2	.01504	.09438	2.9334	.01366	.20614	.00988	.01990	1.1249	.04219	2.9423	.00994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				30.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00291**	**.00926**	**.01515**	**.46951**	**.10083**	**.00997**	**.01397**	**.00987**	**.01720**	F **.09406**	**.01024**
Stddev	.00176	.00156	.00393	.01778	.00003	.00013	.00078	.00027	.00069	.01166	.00001
%RSD	60.521	16.870	25.959	3.7869	.03210	1.2731	5.5760	2.7623	4.0214	12.395	.08098
#1	.00415	.01037	.01794	.48209	.10081	.00988	.01452	.00967	.01671	.10230	.01024
#2	.00166	.00816	.01237	.45694	.10085	.01006	.01342	.01006	.01769	.08581	.01025
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value										.06000	
Range										30.000%	

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02153**	**.01566**
Stddev	.00014	.00065
%RSD	.67296	4.1633
#1	.02164	.01612
#2	.02143	.01520
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5636.2**	**73456.**	**5042.8**
Stddev	1.7	125.	14.4
%RSD	.02966	.16988	.28651
#1	5637.4	73368.	5032.5
#2	5635.0	73545.	5053.0

Sample Name: mb 280-101476/1-a Acquired: 12/29/2011 1:01:24 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101476 DOD4/6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**-.02319**	**.00072**	**.00173**	**.00006**	**-.00006**	**.00039**	**-.00192**	**-.00008**	**.00001**
Stddev	.00012	.00029	.00028	.00007	.00025	.00003	.00205	.00412	.00011	.00007
%RSD	24.310	1.2536	38.593	4.2501	433.39	39.329	523.52	214.33	139.75	673.77
#1	.00042	-.02339	.00092	.00168	.00023	-.00008	.00184	.00099	-.00015	.00006
#2	.00060	-.02298	.00052	.00178	-.00012	-.00005	-.00106	-.00484	.00000	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00012**	**.00422**	**-.02546**	W **.00509**	**.00085**	**-.00013**	**-.00016**	**.09954**	**.00035**
Stddev	.00001	.00007	.00107	.02873	.00222	.00119	.00005	.00005	.00791	.00001
%RSD	16.269	59.847	25.371	112.83	43.685	140.79	35.145	31.572	7.9430	2.7134
#1	.00006	-.00018	.00347	-.04577	.00666	.00169	-.00017	-.00019	.09395	.00035
#2	.00005	-.00007	.00498	-.00515	.00352	.00000	-.00010	-.00012	.10513	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.00500					
Low Limit					-.00500					

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**.00122**	**.00356**	**.00021**	**-.00026**	**-.00147**	**-.00035**	**.00008**	**.00005**	**.00022**
Stddev	.00116	.00036	.00066	.00042	.00219	.00691	.00011	.00000	.00043	.00009
%RSD	124.68	29.385	18.661	197.73	847.82	468.75	30.178	4.0621	934.04	42.727
#1	-.00011	.00097	.00309	.00052	.00129	-.00636	-.00043	.00009	-.00026	.00015
#2	-.00176	.00147	.00403	-.00009	-.00181	.00341	-.00028	.00008	.00035	.00029
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**.01070**	**-.00023**	**.00238**	**-.00047**
Stddev	.00013	.00689	.00010	.00007	.00029
%RSD	19.905	64.349	40.797	2.8395	60.408
#1	-.00055	.01557	-.00030	.00243	-.00068
#2	-.00074	.00583	-.00017	.00233	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5630.2**	**73704.**	**5049.8**
Stddev	3.1	67.	2.3
%RSD	.05528	.09094	.04489
#1	5628.0	73752.	5048.2
#2	5632.4	73657.	5051.4

Sample Name: lcs 280-101476/2-a Acquired: 12/29/2011 1:04:01 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101476 DOD4/6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05631**	**1.9527**	**1.0170**	**1.0413**	**2.0614**	**.04859**	F **2.2114**	**49.547**	**.09884**	**.50518**
Stddev	.00027	.0072	.0034	.0006	.0066	.00003	.0050	.170	.00032	.00038
%RSD	.47354	.36800	.33764	.05322	.32240	.05154	.22649	.34279	.32134	.07493
#1	.05650	1.9476	1.0194	1.0417	2.0567	.04857	2.2150	49.427	.09907	.50545
#2	.05612	1.9578	1.0146	1.0409	2.0661	.04860	2.2079	49.667	.09862	.50491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							2.2000			
Low Limit							1.8000			

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20446**	**.25057**	**.97149**	**51.174**	**1.0404**	**49.354**	**.50159**	**1.0092**	**52.810**	**.50381**
Stddev	.00022	.00079	.00649	.073	.0013	.050	.00063	.0008	.371	.00032
%RSD	.10765	.31494	.66843	.14236	.12607	.10085	.12499	.08150	.70276	.06288
#1	.20430	.25113	.96690	51.122	1.0395	49.319	.50115	1.0098	52.547	.50403
#2	.20462	.25001	.97608	51.225	1.0414	49.389	.50204	1.0086	53.072	.50359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.451**	**.51136**	**.01123**	**.50878**	**2.0237**	**9.7437**	**1.9685**	**1.0045**	**1.0148**	**1.0286**
Stddev	.014	.00048	.00494	.00163	.0056	.0099	.0022	.0032	.0046	.0020
%RSD	.13578	.09334	43.989	.31995	.27405	.10191	.11125	.32322	.44994	.19332
#1	10.461	.51103	.01473	.50994	2.0277	9.7367	1.9670	1.0022	1.0115	1.0272
#2	10.441	.51170	.00774	.50763	2.0198	9.7507	1.9701	1.0068	1.0180	1.0300
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0436**	**2.1461**	**.52477**	**.49352**	**.48472**
Stddev	.0040	.0238	.00014	.00147	.00465
%RSD	.19344	1.1068	.02741	.29798	.95955
#1	2.0464	2.1629	.52467	.49248	.48143
#2	2.0408	2.1293	.52487	.49456	.48801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5415.3**	**69495.**	**5003.3**
Stddev	6.2	12.	3.8
%RSD	.11523	.01734	.07671
#1	5410.9	69486.	5006.1
#2	5419.7	69503.	5000.6

Sample Name: 280-23566-d-1-b Acquired: 12/29/2011 1:06:19 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101476 DOD4/6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.02094**	**.00213**	**.02585**	**.03411**	**-.00002**	**-.00126**	**88.799**	**-.00010**	**.00003**
Stddev	.00029	.00016	.00008	.00056	.00004	.00005	.00017	.109	.00003	.00008
%RSD	139.61	.76387	3.9569	2.1596	.12161	317.58	13.630	.12261	25.845	250.40
#1	.00000	-.02105	.00207	.02624	.03408	-.00005	-.00114	88.722	-.00012	-.00003
#2	.00041	-.02083	.00219	.02545	.03414	.00002	-.00139	88.876	-.00008	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00157**	**.00110**	**.00609**	**3.6190**	**.00612**	**9.2008**	**.00017**	**.00133**	**79.659**	**.00101**
Stddev	.00000	.00013	.00077	.0131	.00066	.0107	.00001	.00002	.450	.00038
%RSD	.21184	11.563	12.707	.36089	10.766	.11586	6.3685	1.8396	.56476	37.212
#1	.00157	.00119	.00663	3.6283	.00659	9.2084	.00018	.00131	79.341	.00074
#2	.00157	.00101	.00554	3.6098	.00566	9.1933	.00016	.00135	79.977	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00189**	**-.00036**	**8.3573**	**-.00048**	**.00153**	**3.0896**	**-.00010**	**.24189**	**.00074**	**.00011**
Stddev	.00154	.00024	.0042	.00076	.00011	.0010	.00090	.00022	.00155	.00017
%RSD	81.692	65.222	.05059	160.81	7.2010	.03355	917.96	.09259	210.59	164.52
#1	.00298	-.00053	8.3543	.00007	.00161	3.0904	-.00074	.24173	.00183	.00023
#2	.00080	-.00020	8.3603	-.00102	.00145	3.0889	.00054	.24205	-.00036	-.00002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00146**	**.02421**	**.00057**	**.00343**	**-.00089**
Stddev	.00021	.01030	.00032	.00029	.00113
%RSD	14.442	42.562	55.172	8.3163	127.52
#1	.00131	.03150	.00080	.00363	-.00169
#2	.00160	.01692	.00035	.00323	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5370.0**	**69488.**	**5013.7**
Stddev	6.0	26.	19.3
%RSD	.11081	.03760	.38416
#1	5365.8	69469.	5000.1
#2	5374.2	69506.	5027.3

Sample Name: 280-23566-d-1-bSD@5 Acquired: 12/29/2011 1:08:52 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101476 DOD4/6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**-.02358**	**.00294**	**.00651**	**.00716**	**-.00008**	**.00086**	**18.642**	**.00006**	**.00017**
Stddev	.00010	.00019	.00063	.00053	.00024	.00001	.00188	.104	.00002	.00002
%RSD	14.593	.80092	21.484	8.1807	3.3419	9.5879	217.93	.55731	41.113	13.049
#1	.00075	-.02371	.00249	.00689	.00733	-.00008	-.00047	18.715	.00007	.00016
#2	.00061	-.02345	.00338	.00613	.00699	-.00007	.00219	18.568	.00004	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.00012**	**-.00002**	**.76519**	**.00637**	**1.9690**	**-.00009**	**.00008**	**17.079**	**.00043**
Stddev	.00003	.00018	.00084	.01461	.00349	.0009	.00006	.00012	.033	.00027
%RSD	6.9812	156.64	5526.5	1.9088	54.770	.04609	67.183	155.73	.19384	63.775
#1	.00039	.00001	.00058	.77552	.00391	1.9684	-.00013	-.00001	17.102	.00062
#2	.00043	-.00025	-.00061	.75487	.00884	1.9696	-.00005	.00016	17.055	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	**.00027**	**1.6568**	**.00016**	**-.00033**	**.63008**	**-.00106**	**.05112**	**.00064**	**-.00050**
Stddev	.00066	.00108	.0018	.00006	.00167	.01157	.00066	.00038	.00075	.00008
%RSD	47.595	400.39	.11085	36.935	508.54	1.8371	62.390	.74080	116.69	15.731
#1	-.00186	.00103	1.6555	.00012	-.00151	.63826	-.00059	.05139	.00011	-.00044
#2	-.00092	-.00049	1.6581	.00021	.00085	.62189	-.00152	.05085	.00117	-.00055
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00308**	**.00030**	**.00403**	**.00071**
Stddev	.00035	.00554	.00015	.00024	.00011
%RSD	372.30	179.99	48.558	5.8612	15.678
#1	-.00034	.00700	.00040	.00386	.00063
#2	.00015	-.00084	.00020	.00420	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5478.3**	**71275.**	**5005.9**
Stddev	3.4	54.	15.6
%RSD	.06248	.07506	.31076
#1	5475.9	71238.	4994.9
#2	5480.8	71313.	5016.9

Sample Name: 280-23566-d-1-c ms Acquired: 12/29/2011 1:11:25 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101476 DOD4/6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05672**	**1.9131**	**1.0327**	**1.0591**	**2.0776**	**.04831**	**2.1782**	**134.36**	**.09881**	**.49841**
Stddev	.00022	.0018	.0033	.0006	.0015	.00033	.0034	.15	.00025	.00017
%RSD	.38613	.09149	.32275	.05693	.07287	.68606	.15596	.11182	.25505	.03354
#1	.05688	1.9144	1.0351	1.0595	2.0765	.04807	2.1758	134.25	.09899	.49853
#2	.05657	1.9119	1.0304	1.0586	2.0786	.04854	2.1806	134.46	.09863	.49830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20571**	**.25085**	**.95988**	**55.079**	**1.0401**	**57.129**	**.49788**	**1.0147**	**128.81**	**.49679**
Stddev	.00015	.00080	.00220	.022	.0060	.253	.00236	.0008	.15	.00092
%RSD	.07322	.31930	.22960	.03952	.57294	.44311	.47471	.07501	.11922	.18512
#1	.20582	.25142	.95832	55.094	1.0359	57.308	.49955	1.0153	128.92	.49744
#2	.20561	.25029	.96144	55.063	1.0443	56.950	.49620	1.0142	128.71	.49614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.625**	**.50273**	**8.2060**	**.51379**	**2.0242**	**12.738**	**1.9577**	**1.2268**	**1.0202**	**1.0354**
Stddev	.007	.00122	.0004	.00233	.0009	.008	.0027	.0002	.0069	.0051
%RSD	.06678	.24197	.00503	.45266	.04515	.06222	.14013	.01746	.67570	.48864
#1	10.630	.50359	8.2057	.51544	2.0249	12.733	1.9596	1.2270	1.0251	1.0389
#2	10.620	.50187	8.2063	.51215	2.0236	12.744	1.9557	1.2267	1.0153	1.0318
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9327**	**2.1195**	**.52812**	**.49044**	**.48230**
Stddev	.0009	.0149	.00340	.00190	.00051
%RSD	.04764	.70480	.64301	.38766	.10585
#1	1.9321	2.1089	.53052	.49179	.48193
#2	1.9334	2.1300	.52572	.48910	.48266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5242.3**	**67527.**	**4972.7**
Stddev	15.1	181.	11.8
%RSD	.28771	.26789	.23772
#1	5231.6	67399.	4981.0
#2	5252.9	67655.	4964.3

Sample Name: 280-23566-d-1-d msd Acquired: 12/29/2011 1:13:42 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101476 DOD4/6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05675**	**1.9289**	**1.0363**	**1.0625**	**2.1022**	**.04881**	**2.1835**	**138.50**	**.09935**	**.50209**
Stddev	.00061	.0008	.0016	.0007	.0011	.00001	.0018	.11	.00010	.00032
%RSD	1.0714	.04288	.15806	.06986	.05249	.01183	.08227	.07737	.09720	.06422
#1	.05718	1.9294	1.0375	1.0620	2.1014	.04881	2.1822	138.42	.09928	.50232
#2	.05632	1.9283	1.0351	1.0630	2.1030	.04880	2.1848	138.57	.09941	.50186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20726**	**.24824**	**.97413**	**55.839**	**1.0562**	**57.263**	**.49551**	**1.0216**	**133.32**	**.49962**
Stddev	.00007	.00259	.00024	.049	.0023	.860	.00758	.0004	.47	.00074
%RSD	.03315	1.0446	.02457	.08820	.21714	1.5025	1.5307	.04017	.35509	.14908
#1	.20731	.25007	.97430	55.874	1.0578	57.871	.50087	1.0219	133.66	.50015
#2	.20721	.24640	.97396	55.804	1.0545	56.654	.49015	1.0214	132.99	.49910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.678**	**.50458**	**8.4611**	**.51240**	**2.0278**	**12.973**	**1.9652**	**1.2470**	**1.0155**	**1.0350**
Stddev	.019	.00110	.0015	.00101	.0030	.001	.0008	.0004	.0147	.0151
%RSD	.17801	.21762	.01732	.19774	.14719	.00919	.04004	.02888	1.4454	1.4604
#1	10.665	.50380	8.4622	.51169	2.0257	12.973	1.9646	1.2467	1.0259	1.0457
#2	10.692	.50536	8.4601	.51312	2.0299	12.972	1.9657	1.2472	1.0051	1.0243
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9414**	**2.1380**	**.52734**	**.49094**	**.48846**
Stddev	.0019	.0543	.00697	.00837	.00106
%RSD	.09583	2.5399	1.3216	1.7058	.21767
#1	1.9401	2.1764	.53227	.49686	.48771
#2	1.9427	2.0996	.52241	.48502	.48921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5219.2**	**67301.**	**4928.9**
Stddev	2.2	748.	3.4
%RSD	.04235	1.1109	.06859
#1	5217.7	66772.	4926.5
#2	5220.8	67829.	4931.3

Sample Name: 280-23566-d-1-bPDS Acquired: 12/29/2011 1:15:58 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101476 DOD4/6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05252**	**.96693**	**.20401**	**.12823**	**.13369**	**.04739**	**-.00115**	**106.33**	**.05083**	**.04962**
Stddev	.00020	.00165	.00085	.00030	.00095	.00036	.00080	.49	.00007	.00022
%RSD	.38859	.17059	.41893	.23281	.71428	.76144	69.424	.46079	.14403	.43854
#1	.05266	.96809	.20461	.12844	.13437	.04765	-.00171	106.68	.05088	.04978
#2	.05237	.96576	.20341	.12801	.13301	.04714	-.00058	105.99	.05078	.04947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05203**	**.05051**	**.94486**	**23.606**	**.10791**	**27.958**	**.04897**	**.05122**	**98.736**	**.05008**
Stddev	.00011	.00027	.00714	.137	.00166	.047	.00002	.00034	.454	.00015
%RSD	.21846	.53578	.75523	.57911	1.5414	.16887	.04082	.66484	.45954	.30175
#1	.05195	.05032	.94991	23.703	.10909	27.991	.04898	.05098	99.057	.04997
#2	.05211	.05070	.93981	23.509	.10673	27.925	.04895	.05146	98.415	.05019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0851**	**.09883**	**8.2813**	**.10024**	**.20201**	**7.7841**	**.09591**	**.28624**	**.20015**	**.05023**
Stddev	.0063	.00034	.0066	.00021	.00066	.0294	.00069	.00134	.00107	.00023
%RSD	.30439	.34336	.07985	.20737	.32706	.37802	.72387	.46924	.53527	.45242
#1	2.0806	.09907	8.2859	.10039	.20154	7.8049	.09640	.28719	.20091	.05039
#2	2.0896	.09859	8.2766	.10010	.20248	7.7632	.09542	.28529	.19939	.05007
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19475**	**.53276**	**.05255**	**.20137**	**.04666**
Stddev	.00022	.01320	.00007	.00103	.00031
%RSD	.11345	2.4784	.12606	.51182	.66367
#1	.19490	.54210	.05260	.20210	.04644
#2	.19459	.52342	.05250	.20064	.04688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5297.8**	**68108.**	**4974.9**
Stddev	19.1	133.	13.0
%RSD	.36146	.19541	.26130
#1	5284.2	68014.	4965.7
#2	5311.3	68202.	4984.1

Sample Name: 280-23566-d-2-d Acquired: 12/29/2011 1:18:26 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101476 DOD4/6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**-.02205**	**.00264**	**.00310**	**.00022**	**-.00005**	**.00123**	**.06670**	**-.00003**	**.00007**
Stddev	.00011	.00024	.00073	.00004	.00031	.00005	.00142	.00504	.00003	.00005
%RSD	19.872	1.0758	27.608	1.2126	140.76	109.44	115.99	7.5510	94.510	76.195
#1	.00050	-.02188	.00212	.00308	.00000	-.00001	.00022	.07026	-.00001	.00003
#2	.00066	-.02221	.00315	.00313	.00044	-.00008	.00223	.06314	-.00005	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00005**	**.00473**	**.01156**	**.00135**	**.00396**	**-.00006**	**.00014**	**.17436**	**.00063**
Stddev	.00004	.00032	.00067	.02068	.00019	.00088	.00008	.00010	.00879	.00030
%RSD	58.467	584.09	14.177	178.90	13.950	22.249	152.47	74.040	5.0411	47.599
#1	.00009	.00017	.00426	.02618	.00121	.00458	.00000	.00021	.18057	.00085
#2	.00004	-.00028	.00520	-.00306	.00148	.00334	-.00011	.00007	.16814	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00263**	**-.00027**	**.00769**	**-.00070**	**.00313**	**.00238**	**.00008**	**.00014**	**.00091**	**.00007**
Stddev	.00066	.00033	.00077	.00053	.00117	.00072	.00015	.00007	.00197	.00020
%RSD	25.182	121.48	9.9890	75.244	37.297	30.375	179.46	47.226	217.37	295.86
#1	-.00216	-.00051	.00714	-.00033	.00230	.00289	.00019	.00010	.00230	.00021
#2	-.00309	-.00004	.00823	-.00107	.00395	.00187	-.00002	.00019	-.00049	-.00007
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**.00509**	**-.00008**	**.00356**	**.00016**
Stddev	.00124	.01056	.00006	.00020	.00155
%RSD	168.99	207.54	85.619	5.6548	978.38
#1	.00161	.01256	-.00003	.00371	.00125
#2	-.00014	-.00238	-.00012	.00342	-.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5601.5**	**72927.**	**5042.9**
Stddev	4.7	121.	33.3
%RSD	.08398	.16623	.66009
#1	5598.2	72842.	5019.3
#2	5604.8	73013.	5066.4

Sample Name: CCVH-1190977 Acquired: 12/29/2011 1:21:01 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00303**	**49.661**	**-.00100**	**.00414**	**.00058**	**-.00006**	**1.0169**	**.01628**	**-.00153**	**.00222**	**.00014**	**-.00392**	**48.749**
Stddev	.00036	.159	.00500	.00009	.00003	.00002	.0052	.00286	.00007	.00024	.00010	.00023	.135
%RSD	12.024	.31929	498.39	2.1159	5.8645	27.604	.50754	17.581	4.3418	10.652	66.807	5.7622	.27688
#1	.00277	49.549	.00253	.00408	.00056	-.00007	1.0205	.01425	-.00149	.00239	.00021	-.00376	48.654
#2	.00329	49.774	-.00454	.00420	.00061	-.00005	1.0132	.01830	-.00158	.00205	.00008	-.00408	48.845
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05426**	**.00550**	**.03286**	**-.00075**	**-.00102**	**256.63**	**.00149**	**.00406**	**.00032**	**5.2662**	**-.00421**	**.00146**	**.00487**
Stddev	.00612	.00212	.00135	.00001	.00005	1.16	.00011	.00027	.00010	.0457	.00105	.00158	.00381
%RSD	11.284	38.512	4.1077	.87964	5.1849	.45311	7.6444	6.5517	30.716	.86707	24.968	108.09	78.175
#1	.04993	.00700	.03191	-.00074	-.00098	255.81	.00141	.00425	.00039	5.2985	-.00346	.00258	.00756
#2	.05859	.00401	.03382	-.00075	-.00106	257.46	.00157	.00388	.00025	5.2340	-.00495	.00034	.00218
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.00044**	**5.1220**	**-.02375**	**.00155**	**10.433**	**.00501**	**.00267**	**-.11763**
Stddev	.00059	.00003	.0004	.00044	.00023	.013	.00001	.00037	.00011
%RSD	71.626	7.7222	.00830	1.8592	15.115	.12628	.20996	13.743	.09236
#1	.00124	.00041	5.1217	-.02344	.00138	10.424	.00501	.00293	-.11756
#2	.00041	.00046	5.1224	-.02407	.00171	10.442	.00500	.00241	-.11771
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5360.3**	**68183.**	**4914.8**
Stddev	27.2	92.	24.9
%RSD	.50691	.13491	.50565
#1	5341.1	68248.	4932.3
#2	5379.5	68118.	4897.2

Sample Name: CCV-1190978 Acquired: 12/29/2011 1:23:31 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52407**	**.49648**	**1.0056**	**.51072**	**.51535**	**.48427**	**-.00026**	**5.0368**	**.51145**	**.51720**	**.51574**	**.49960**	**2.4353**
Stddev	.00068	.00152	.0001	.00226	.00422	.00379	.00085	.0320	.00131	.00095	.00178	.00030	.0221
%RSD	.13031	.30584	.00906	.44203	.81889	.78347	326.57	.63592	.25673	.18300	.34578	.05937	.90800
#1	.52455	.49541	1.0057	.50912	.51833	.48695	.00034	5.0595	.51052	.51653	.51448	.49981	2.4509
#2	.52359	.49755	1.0056	.51231	.51236	.48159	-.00086	5.0142	.51237	.51787	.51701	.49940	2.4197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.950**	**1.0197**	**19.972**	**.49969**	**.50615**	**5.2287**	**.51009**	**.99999**	**1.0273**	**.00298**	**1.0021**	**.99834**	**4.8023**
Stddev	.385	.0104	.007	.00007	.00126	.0561	.00206	.00241	.0048	.00157	.0018	.00097	.0205
%RSD	.77100	1.0226	.03558	.01449	.24847	1.0734	.40447	.24116	.46658	52.874	.18260	.09736	.42629
#1	50.223	1.0270	19.977	.49964	.50526	5.2683	.50863	.99828	1.0239	.00186	1.0008	.99765	4.8168
#2	49.678	1.0123	19.967	.49974	.50704	5.1890	.51155	1.0017	1.0307	.00409	1.0034	.99903	4.7879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99557**	**.49498**	**-.00539**	**.51254**	**1.0495**	**.00387**	**.51827**	**.50306**	**.49848**
Stddev	.00110	.00340	.00161	.00082	.0024	.00246	.00057	.00010	.00289
%RSD	.11019	.68754	29.935	.15905	.23176	63.421	.10994	.01913	.57954
#1	.99479	.49739	-.00425	.51312	1.0478	.00561	.51787	.50313	.50052
#2	.99634	.49258	-.00653	.51197	1.0512	.00214	.51867	.50299	.49644
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5473.2**	**70195.**	**4955.0**
Stddev	22.6	47.	13.4
%RSD	.41260	.06657	.27059
#1	5489.2	70228.	4945.5
#2	5457.2	70162.	4964.5

Sample Name: CCB Acquired: 12/29/2011 1:25:52 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	W **-.02447**	**.00078**	W **.00281**	**.00016**	**-.00003**	**-.00131**	**-.00351**	**-.00002**	**-.00004**
Stddev	.00030	.00059	.00359	.00037	.00007	.00000	.00051	.00211	.00006	.00007
%RSD	59.942	2.3957	458.74	13.210	42.397	10.086	38.932	60.182	266.97	189.99
#1	.00072	-.02405	.00332	.00255	.00021	-.00003	-.00167	-.00500	.00002	.00001
#2	.00029	-.02488	-.00175	.00307	.00011	-.00003	-.00095	-.00201	-.00006	-.00009
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00156						
Low Limit		-.01800		-.00156						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00035**	**-.00073**	**.03152**	W **.00302**	**-.00062**	**-.00024**	**.00033**	F **.14274**	**.00032**
Stddev	.00016	.00005	.00018	.03669	.00189	.00004	.00003	.00013	.01463	.00008
%RSD	149.99	13.046	24.950	116.41	62.390	7.0056	14.024	40.407	10.252	24.770
#1	-.00022	-.00038	-.00060	.05747	.00169	-.00065	-.00021	.00023	.13240	.00026
#2	.00001	-.00032	-.00086	.00558	.00436	-.00059	-.00026	.00042	.15309	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					.00261				.10000	
Low Limit					-.00261				-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00214**	**-.00071**	**-.00064**	W **.00419**	**-.00137**	**-.01762**	**-.00049**	**.00002**	**.00074**	**-.00001**
Stddev	.00019	.00000	.00002	.00037	.00263	.00346	.00038	.00005	.00138	.00013
%RSD	8.9290	.20211	3.2170	8.7853	191.15	19.607	77.051	293.39	186.81	1477.7
#1	-.00200	-.00072	-.00065	.00445	-.00323	-.02007	-.00022	.00005	-.00024	.00008
#2	-.00227	-.00071	-.00062	.00393	.00048	-.01518	-.00076	-.00002	.00171	-.00010
Check ?	Chk Pass	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00314						
Low Limit				-.00314						

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.01565**	**.00034**	**.00137**	**.00012**
Stddev	.00040	.00533	.00030	.00007	.00004
%RSD	229.48	34.038	87.356	4.9679	31.374
#1	.00011	-.01942	.00055	.00141	.00014
#2	-.00045	-.01188	.00013	.00132	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5544.7**	**71788.**	**4910.4**
Stddev	13.8	295.	8.8
%RSD	.24901	.41040	.17825
#1	5534.9	71580.	4904.2
#2	5554.5	71997.	4916.6

Sample Name: CCVL1192076 Acquired: 12/29/2011 1:28:29 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01113**	**.08358**	**.01691**	**.10596**	**.01039**	**.00094**	W **.12002**	**.19421**	**.00513**	**.01095**	**.01042**
Stddev	.00053	.00015	.00259	.00035	.00045	.00010	.00256	.00096	.00002	.00008	.00003
%RSD	4.8003	.17797	15.288	.33087	4.3022	11.141	2.1345	.49411	.36280	.73220	.26056
#1	.01076	.08347	.01874	.10621	.01007	.00087	.11821	.19489	.00512	.01101	.01040
#2	.01151	.08368	.01508	.10571	.01070	.00102	.12184	.19353	.00514	.01090	.01044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							.10000				
Range							20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01487**	**.09600**	**2.9663**	F **.01333**	**.20921**	**.00998**	**.02007**	**1.1505**	**.04246**	**2.9710**	**.00923**
Stddev	.00018	.00008	.0345	.00015	.00105	.00000	.00009	.0143	.00015	.0074	.00041
%RSD	1.1784	.08311	1.1633	1.1000	.50267	.04885	.43520	1.2447	.35807	.24770	4.4904
#1	.01475	.09605	2.9419	.01323	.20995	.00998	.02013	1.1404	.04236	2.9658	.00952
#2	.01499	.09594	2.9907	.01344	.20846	.00998	.02001	1.1606	.04257	2.9762	.00894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				30.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.01018**	**.01352**	**.49080**	**.10104**	**.01005**	**.01394**	**.01003**	**.01656**	**.06759**	**.01031**
Stddev	.00028	.00089	.00141	.01299	.00032	.00031	.00134	.00002	.00111	.00754	.00012
%RSD	36.232	8.7291	10.442	2.6474	.31232	3.1031	9.5914	.22940	6.7114	11.149	1.1619
#1	-.00095	.00955	.01252	.48162	.10081	.00983	.01488	.01002	.01735	.06226	.01039
#2	-.00056	.01081	.01451	.49999	.10126	.01027	.01299	.01005	.01578	.07292	.01023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02153**	**.01694**
Stddev	.00048	.00030
%RSD	2.2360	1.7714
#1	.02187	.01715
#2	.02119	.01673
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5608.5**	**72984.**	**5026.4**
Stddev	3.7	124.	27.1
%RSD	.06512	.16966	.53964
#1	5605.9	73071.	5045.5
#2	5611.1	72896.	5007.2

Sample Name: mb 280-101503/1-a Acquired: 12/29/2011 1:31:02 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.01831**	**.00032**	**.00237**	**.00038**	**-.00004**	**-.00219**	W **.10241**	**.00007**	**-.00012**
Stddev	.00022	.00035	.00119	.00024	.00038	.00002	.00474	.00109	.00000	.00019
%RSD	34.028	1.9188	368.72	10.113	101.32	58.470	217.02	1.0681	2.3121	164.36
#1	.00082	-.01856	.00116	.00220	.00064	-.00002	-.00554	.10164	.00008	.00002
#2	.00050	-.01807	-.00052	.00254	.00011	-.00005	.00117	.10318	.00007	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
High Limit								.10000		
Low Limit								-.10000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00029**	F **.13414**	**.03469**	**.00293**	**.02931**	**.00140**	**.00002**	**.28032**	**-.00003**
Stddev	.00004	.00032	.00156	.04614	.00087	.00279	.00003	.00007	.00072	.00011
%RSD	34.027	108.83	1.1636	133.00	29.592	9.5268	2.0984	348.91	.25640	369.68
#1	.00008	.00007	.13524	.00207	.00232	.02734	.00138	-.00003	.28083	-.00011
#2	.00013	.00052	.13303	.06731	.00355	.03129	.00142	.00007	.27981	.00005
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.10000							
Low Limit			-.10000							

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00440**	**.00042**	**.02079**	**.00032**	**-.00069**	**.00778**	**.00853**	**.00050**	**.00092**	**.00013**
Stddev	.00296	.00056	.00331	.00076	.00336	.02004	.00018	.00001	.00086	.00019
%RSD	67.223	132.42	15.918	238.02	490.00	257.68	2.1490	1.9849	93.194	145.48
#1	.00231	.00003	.01845	-.00022	.00169	.02195	.00840	.00049	.00152	.00000
#2	.00649	.00082	.02313	.00086	-.00306	-.00639	.00866	.00050	.00031	.00026
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00163**	**.01164**	**-.00027**	**.00364**	**.00002**
Stddev	.00117	.02268	.00013	.00024	.00051
%RSD	71.757	194.89	49.259	6.6586	2046.8
#1	-.00246	-.00440	-.00036	.00347	-.00034
#2	-.00080	.02767	-.00017	.00381	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5576.5**	**73095.**	**5046.8**
Stddev	3.3	57.	17.2
%RSD	.05866	.07818	.34003
#1	5574.2	73055.	5034.7
#2	5578.8	73136.	5058.9

Sample Name: lcs 280-101503/2-a Acquired: 12/29/2011 1:33:38 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	167.079 {502}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05440**	**1.9147**	**.98483**	**.96410**	**2.0504**	**.04835**	**2.1443**	**49.226**	**.09598**	**.50014**
Stddev	.00023	.0055	.00100	.00099	.0238	.00050	.0032	.528	.00043	.00005
%RSD	.42564	.28636	.10153	.10218	1.1603	1.0350	.14934	1.0725	.44305	.01052
#1	.05423	1.9108	.98553	.96341	2.0335	.04800	2.1420	48.853	.09568	.50018
#2	.05456	1.9186	.98412	.96480	2.0672	.04871	2.1465	49.599	.09628	.50011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20392**	**.24743**	**1.0795**	**50.809**	**1.0429**	**47.537**	**.49575**	**1.0033**	**52.735**	**.49841**
Stddev	.00028	.00076	.0062	.590	.0112	.000	.00077	.0006	.787	.00026
%RSD	.13913	.30899	.57019	1.1613	1.0691	.00080	.15547	.05520	1.4927	.05306
#1	.20372	.24797	1.0751	50.392	1.0350	47.537	.49520	1.0029	52.178	.49823
#2	.20412	.24688	1.0839	51.226	1.0508	47.537	.49629	1.0037	53.291	.49860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.070**	**.50034**	**.09561**	**.48244**	**1.9001**	**1.3498**	**1.9332**	**.99974**	**.99137**	**1.0180**
Stddev	.011	.00088	.00142	.00106	.0005	.0163	.0057	.01237	.00171	.0014
%RSD	.11340	.17532	1.4806	.22025	.02850	1.2108	.29364	1.2377	.17244	.13635
#1	10.062	.50096	.09461	.48320	1.8998	1.3382	1.9292	.99099	.99016	1.0170
#2	10.078	.49972	.09661	.48169	1.9005	1.3613	1.9373	1.0085	.99258	1.0189
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9832**	**2.1561**	**.51799**	**.48267**	**.48502**
Stddev	.0024	.0245	.00033	.00018	.00468
%RSD	.11900	1.1384	.06426	.03753	.96410
#1	1.9816	2.1734	.51775	.48254	.48171
#2	1.9849	2.1387	.51822	.48279	.48833
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5295.6**	**68730.**	**4933.3**
Stddev	2.9	47.	23.7
%RSD	.05415	.06815	.47963
#1	5297.6	68697.	4950.0
#2	5293.6	68764.	4916.6

Sample Name: 280-24121-a-1-c Acquired: 12/29/2011 1:35:58 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**122.94**	**.04761**	**.12436**	**1.6413**	**.00501**	W **-.01067**	**273.72**	**.00126**	**.07165**
Stddev	.00006	.10	.00125	.00033	.0012	.00002	.00038	.35	.00010	.00042
%RSD	7.7008	.08102	2.6269	.26722	.07146	.37625	3.5226	.12727	8.1334	.58407
#1	.00071	122.87	.04849	.12413	1.6421	.00502	-.01093	273.47	.00133	.07195
#2	.00079	123.01	.04673	.12460	1.6405	.00499	-.01040	273.96	.00119	.07136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit							3.0000			
Low Limit							-.01000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28392**	**.22078**	**208.58**	**27.472**	**.11406**	**91.723**	**4.2503**	**.01422**	**7.2231**	**.16653**
Stddev	.00078	.00046	.03	.044	.00045	.143	.0054	.00045	.0081	.00079
%RSD	.27587	.20807	.01264	.15980	.39229	.15640	.12641	3.1567	.11212	.47258
#1	.28447	.22046	208.57	27.503	.11374	91.824	4.2465	.01390	7.2289	.16708
#2	.28336	.22111	208.60	27.441	.11438	91.622	4.2541	.01453	7.2174	.16597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.8833**	**.15071**	**5.7931**	**-.00078**	**.00313**	**3.3517**	**.00478**	**1.1708**	**.02337**	**4.3964**
Stddev	.0148	.00068	.0142	.00134	.00015	.0252	.00019	.0000	.00077	.0009
%RSD	.18722	.45400	.24568	172.13	4.7187	.75306	3.9209	.00026	3.2931	.02096
#1	7.8938	.15120	5.8031	-.00173	.00324	3.3696	.00492	1.1708	.02392	4.3957
#2	7.8729	.15023	5.7830	.00017	.00303	3.3339	.00465	1.1708	.02283	4.3970
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.11744**	**.50552**	**.42611**	**.15337**
Stddev	.00107	.01180	.00025	.00085	.00134
%RSD	204.12	10.048	.04929	.20014	.87259
#1	-.00128	.10909	.50570	.42551	.15432
#2	.00023	.12578	.50534	.42671	.15242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5574.2**	**70548.**	**5297.2**
Stddev	11.7	6.	1.1
%RSD	.21077	.00866	.02022
#1	5565.9	70543.	5296.5
#2	5582.6	70552.	5298.0

Sample Name: 280-24121-a-1-cSD@5 Acquired: 12/29/2011 1:38:34 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**26.484**	**.00920**	**.03041**	**.35921**	**.00097**	**-.00132**	**61.691**	**.00029**	**.01656**
Stddev	.00029	.164	.00083	.00006	.00179	.00001	.00126	.396	.00010	.00008
%RSD	185.24	.62034	8.9874	.19247	.49798	.76901	95.623	.64226	35.499	.47998
#1	-.00005	26.600	.00978	.03037	.36048	.00097	-.00043	61.972	.00037	.01661
#2	.00036	26.368	.00861	.03045	.35795	.00098	-.00221	61.411	.00022	.01650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06360**	**.04811**	**46.797**	**5.7780**	**.02767**	**20.611**	**.97411**	**.00304**	**1.6072**	**.03881**
Stddev	.00019	.00054	.283	.0870	.00076	.011	.00001	.00001	.0112	.00025
%RSD	.29517	1.1325	.60556	1.5061	2.7491	.05478	.00120	.40336	.69494	.65666
#1	.06347	.04773	46.998	5.8395	.02713	20.604	.97410	.00303	1.6151	.03863
#2	.06374	.04850	46.597	5.7165	.02821	20.619	.97412	.00305	1.5993	.03899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.7310**	**.03571**	**1.2569**	**-.00138**	**-.00187**	**.73775**	**.00003**	**.25570**	**.00467**	**.95501**
Stddev	.0017	.00036	.0022	.00124	.00184	.01597	.00020	.00123	.00059	.00076
%RSD	.10068	1.0055	.17483	89.875	98.298	2.1648	632.98	.47961	12.697	.07989
#1	1.7323	.03596	1.2553	-.00226	-.00057	.74904	.00017	.25657	.00509	.95555
#2	1.7298	.03546	1.2584	-.00050	-.00317	.72646	-.00011	.25484	.00425	.95447
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.04729**	**.11093**	**.10103**	**.03411**
Stddev	.00063	.01192	.00015	.00007	.00198
%RSD	172.52	25.206	.13570	.07254	5.8113
#1	-.00081	.05572	.11082	.10098	.03551
#2	.00008	.03886	.11104	.10109	.03270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5511.2**	**70400.**	**5029.0**
Stddev	4.9	40.	44.4
%RSD	.08837	.05729	.88249
#1	5514.6	70429.	4997.6
#2	5507.7	70372.	5060.3

Sample Name: 280-24121-a-1-d ms Acquired: 12/29/2011 1:41:04 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05329**	**171.58**	**.96543**	**1.0237**	**3.6700**	**.04991**	**1.9525**	**429.74**	**.09087**	**.50777**
Stddev	.00066	.16	.00904	.0024	.0006	.00005	.0022	1.58	.00001	.00169
%RSD	1.2382	.09177	.93596	.22997	.01546	.10652	.11075	.36681	.01144	.33228
#1	.05375	171.70	.95904	1.0220	3.6704	.04995	1.9509	428.62	.09086	.50658
#2	.05282	171.47	.97182	1.0254	3.6695	.04987	1.9540	430.85	.09088	.50897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53033**	**.46300**	**179.22**	**86.182**	**1.1309**	**167.15**	**4.1399**	**.88455**	**60.622**	**.60495**
Stddev	.00117	.00020	.15	.037	.0023	.15	.0012	.00299	.139	.00293
%RSD	.22043	.04268	.08550	.04248	.20485	.09206	.02780	.33763	.22941	.48408
#1	.52951	.46314	179.33	86.156	1.1293	167.04	4.1391	.88244	60.720	.60288
#2	.53116	.46286	179.12	86.208	1.1325	167.26	4.1407	.88667	60.524	.60702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.041**	**.59059**	**7.7555**	**.21394**	**1.7467**	**5.8009**	**1.6193**	**2.2394**	**.95737**	**6.9166**
Stddev	.061	.00279	.0121	.00075	.0019	.0061	.0000	.0004	.00175	.0065
%RSD	.35736	.47281	.15558	.34848	.11158	.10502	.00136	.01593	.18240	.09327
#1	16.998	.58862	7.7469	.21341	1.7453	5.7966	1.6193	2.2392	.95860	6.9120
#2	17.084	.59257	7.7640	.21447	1.7480	5.8053	1.6193	2.2397	.95613	6.9211
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6262**	**2.0496**	**1.1007**	**.89473**	**.61472**
Stddev	.0054	.0083	.0001	.00232	.00071
%RSD	.32990	.40482	.00515	.25882	.11487
#1	1.6224	2.0437	1.1008	.89309	.61522
#2	1.6300	2.0555	1.1007	.89637	.61422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5439.8**	**68771.**	**5270.7**
Stddev	9.0	14.	18.5
%RSD	.16597	.02029	.35173
#1	5446.2	68761.	5257.6
#2	5433.4	68781.	5283.8

Sample Name: 280-24121-a-1-e msd Acquired: 12/29/2011 1:43:37 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05371**	**181.37**	**.97535**	**1.0481**	**3.8243**	**.05065**	**1.9825**	**440.63**	**.09224**	**.51775**
Stddev	.00009	.35	.00149	.0005	.0056	.00005	.0000	.73	.00014	.00032
%RSD	.17336	.19067	.15267	.04516	.14573	.10049	.00078	.16555	.15268	.06202
#1	.05378	181.61	.97430	1.0484	3.8282	.05069	1.9825	440.11	.09214	.51798
#2	.05365	181.12	.97640	1.0478	3.8204	.05061	1.9825	441.14	.09233	.51753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.54182**	**.47280**	**181.00**	**89.093**	**1.1535**	**165.98**	**4.0565**	**.89597**	**59.724**	**.61103**
Stddev	.00022	.00181	.24	.212	.0051	.17	.0195	.00047	.311	.00042
%RSD	.04063	.38347	.13323	.23783	.43848	.10409	.48079	.05225	.52086	.06858
#1	.54166	.47408	181.17	89.243	1.1571	165.86	4.0427	.89630	59.944	.61133
#2	.54197	.47151	180.83	88.943	1.1499	166.10	4.0703	.89564	59.504	.61074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.316**	**.60434**	**8.2228**	**.20592**	**1.7724**	**5.4469**	**1.6390**	**2.3255**	**.97460**	**6.8418**
Stddev	.002	.00072	.0021	.00317	.0041	.0376	.0007	.0046	.00234	.0184
%RSD	.01096	.11851	.02511	1.5388	.23076	.68951	.04509	.19965	.24053	.26911
#1	17.315	.60484	8.2242	.20816	1.7695	5.4204	1.6384	2.3288	.97626	6.8548
#2	17.318	.60383	8.2213	.20368	1.7752	5.4735	1.6395	2.3222	.97295	6.8287
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6486**	**2.0613**	**1.1221**	**.92351**	**.63154**
Stddev	.0024	.0088	.0024	.00156	.00404
%RSD	.14752	.42492	.21342	.16895	.63948
#1	1.6503	2.0551	1.1237	.92462	.63440
#2	1.6469	2.0675	1.1204	.92241	.62869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5447.3**	**68683.**	**5277.9**
Stddev	2.6	71.	6.6
%RSD	.04830	.10380	.12468
#1	5445.4	68734.	5282.6
#2	5449.2	68633.	5273.3

Sample Name: 280-24121-a-2-c Acquired: 12/29/2011 1:46:10 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**241.43**	**.07131**	**.35041**	**2.1355**	**.00789**	W **-.01127**	**438.05**	**.00124**	**.06339**
Stddev	.00023	1.03	.00111	.00185	.0096	.00003	.00068	5.32	.00009	.00005
%RSD	28.291	.42701	1.5614	.52653	.44951	.35198	6.0691	1.2148	7.5911	.07941
#1	.00065	242.16	.07210	.35171	2.1423	.00787	-.01176	441.81	.00118	.06335
#2	.00097	240.70	.07052	.34910	2.1287	.00791	-.01079	434.29	.00131	.06342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit							3.0000			
Low Limit							-.01000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46910**	**.24317**	**172.26**	**69.590**	**.21918**	**96.476**	**2.7341**	**.00801**	**20.760**	**.17332**
Stddev	.00035	.00007	.80	.414	.00253	.243	.0082	.00026	.045	.00008
%RSD	.07512	.02914	.46467	.59555	1.1522	.25233	.29973	3.2631	.21828	.04479
#1	.46885	.24322	172.83	69.883	.22096	96.649	2.7399	.00783	20.728	.17338
#2	.46935	.24312	171.70	69.296	.21739	96.304	2.7283	.00820	20.792	.17327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.4550**	**.19516**	**126.33**	**-.00531**	**.00604**	**5.3882**	**.00770**	**1.9224**	**.03266**	**3.9807**
Stddev	.0041	.00016	.05	.00134	.00253	.0155	.00043	.0096	.00045	.0143
%RSD	.06309	.08399	.04279	25.328	41.875	.28708	5.5209	.49903	1.3814	.35910
#1	6.4579	.19504	126.37	-.00626	.00425	5.3992	.00800	1.9292	.03298	3.9908
#2	6.4521	.19528	126.30	-.00436	.00783	5.3773	.00740	1.9156	.03235	3.9706
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00134**	**.11035**	**.75795**	**.62694**	**.20639**
Stddev	.00181	.01525	.00350	.00003	.00317
%RSD	134.90	13.821	.46158	.00411	1.5367
#1	.00006	.09957	.76043	.62696	.20864
#2	.00262	.12114	.75548	.62692	.20415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5549.0**	**69394.**	**5371.5**
Stddev	1.2	117.	40.2
%RSD	.02179	.16815	.74768
#1	5548.1	69311.	5343.1
#2	5549.8	69476.	5399.9

Sample Name: 280-24121-a-3-c Acquired: 12/29/2011 1:49:23 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**174.88**	**.05945**	**.20211**	**2.0162**	**.00641**	W **-.01125**	**379.13**	**.00203**	**.06318**
Stddev	.00003	10.32	.00025	.00057	.1150	.00031	.00111	16.38	.00004	.00040
%RSD	4.0400	5.9012	.42887	.28437	5.7048	4.8264	9.8687	4.3209	1.7801	.62863
#1	.00077	182.18	.05963	.20252	2.0975	.00663	-.01047	390.72	.00206	.06346
#2	.00073	167.59	.05927	.20170	1.9349	.00619	-.01204	367.55	.00201	.06290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit							3.0000			
Low Limit							-.01000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46739**	**.37163**	**177.27**	**43.463**	**.14910**	**101.96**	**4.2851**	**.03017**	**8.6351**	**.20399**
Stddev	.00092	.00071	10.00	2.472	.00947	.07	.0179	.00017	.4891	.00018
%RSD	.19614	.19177	5.6432	5.6875	6.3510	.07216	.41675	.55869	5.6646	.08988
#1	.46804	.37213	184.34	45.210	.15579	101.91	4.2725	.03005	8.9809	.20411
#2	.46674	.37112	170.20	41.715	.14240	102.02	4.2977	.03029	8.2892	.20386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.5737**	**.51236**	**12.972**	**-.00578**	**.00792**	**4.5437**	**.00913**	**1.3016**	**.02399**	**4.8323**
Stddev	.0042	.00013	.029	.00027	.00654	.2719	.00109	.0755	.00701	.0046
%RSD	.05569	.02557	.22451	4.7550	82.533	5.9850	11.952	5.7992	29.238	.09409
#1	7.5766	.51245	12.993	-.00598	.00330	4.7360	.00836	1.3550	.01903	4.8355
#2	7.5707	.51227	12.951	-.00559	.01254	4.3514	.00990	1.2482	.02895	4.8291
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.10110**	**.75209**	**.63684**	**.18485**
Stddev	.00128	.01741	.00006	.00091	.01306
%RSD	426.78	17.217	.00789	.14234	7.0631
#1	-.00060	.08879	.75213	.63620	.19408
#2	.00120	.11341	.75205	.63749	.17562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5526.8**	**69807.**	**5218.1**
Stddev	10.1	241.	228.7
%RSD	.18232	.34566	4.3827
#1	5519.7	69978.	5056.4
#2	5534.0	69637.	5379.8

Sample Name: CCVH-1190977 Acquired: 12/29/2011 1:51:59 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00315**	**49.659**	**-.00057**	**.00496**	**.00065**	**.00004**	**1.0182**	**.03818**	**-.00167**	**.00227**	**.00005**	**-.00353**	**48.565**
Stddev	.00021	.352	.00149	.00070	.00004	.00002	.0029	.00718	.00011	.00014	.00006	.00032	.374
%RSD	6.7749	.70940	260.12	14.041	5.4175	45.703	.28502	18.811	6.5746	6.2720	116.03	9.1636	.76941
#1	.00330	49.409	.00048	.00545	.00063	.00005	1.0203	.04326	-.00159	.00237	.00009	-.00330	48.301
#2	.00300	49.908	-.00163	.00447	.00068	.00003	1.0161	.03310	-.00175	.00217	.00001	-.00376	48.830
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06810**	**.00591**	**.03692**	**-.00054**	**-.00100**	**256.25**	**.00185**	**.00321**	**.00058**	**5.2844**	**-.00411**	**.00034**	**-.01345**
Stddev	.03130	.00190	.00417	.00005	.00004	1.56	.00009	.00150	.00083	.0003	.00203	.00039	.00623
%RSD	45.961	32.063	11.300	9.8257	3.8427	.61025	5.0786	46.879	141.85	.00469	49.311	117.28	46.294
#1	.09023	.00725	.03987	-.00050	-.00097	255.15	.00179	.00215	.00000	5.2842	-.00554	.00006	-.00905
#2	.04597	.00457	.03397	-.00058	-.00102	257.36	.00192	.00427	.00117	5.2846	-.00268	.00061	-.01785
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00131**	**.00051**	**5.1034**	**-.02289**	**.00163**	**10.376**	**.00512**	**.00266**	**-.11626**
Stddev	.00027	.00004	.0205	.00043	.00027	.007	.00045	.00011	.00082
%RSD	20.531	6.9551	.40186	1.8817	16.344	.06310	8.7172	3.9867	.70472
#1	.00112	.00049	5.1179	-.02320	.00181	10.381	.00544	.00258	-.11684
#2	.00150	.00054	5.0889	-.02259	.00144	10.372	.00481	.00273	-.11568
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5386.9**	**68686.**	**4893.1**
Stddev	11.4	111.	25.1
%RSD	.21121	.16092	.51342
#1	5378.8	68608.	4910.8
#2	5394.9	68764.	4875.3

Sample Name: CCV-1190978 Acquired: 12/29/2011 1:54:30 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52080**	**.50357**	**1.0042**	**.51224**	**.51343**	**.48148**	**-.00049**	**5.0284**	**.51259**	**.51826**	**.51638**	**.49903**	**2.4376**
Stddev	.00234	.00282	.0018	.00171	.00039	.00051	.00283	.0038	.00162	.00208	.00150	.00124	.0068
%RSD	.44900	.56044	.18252	.33383	.07613	.10677	581.30	.07492	.31516	.40054	.28989	.24804	.28011
#1	.52245	.50158	1.0055	.51103	.51371	.48184	.00151	5.0258	.51145	.51679	.51532	.49991	2.4424
#2	.51914	.50557	1.0029	.51345	.51316	.48112	-.00248	5.0311	.51373	.51972	.51744	.49816	2.4328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.880**	**1.0205**	**19.923**	**.49880**	**.50785**	**5.1867**	**.51192**	**1.0001**	**1.0289**	**.01241**	**1.0050**	**.99810**	**4.7954**
Stddev	.043	.0018	.083	.00227	.00181	.0199	.00128	.0048	.0042	.00094	.0023	.00905	.0047
%RSD	.08562	.17971	.41652	.45547	.35647	.38300	.25017	.47621	.41048	7.5667	.22549	.90689	.09745
#1	49.910	1.0218	19.981	.50041	.50657	5.2008	.51101	.99678	1.0259	.01307	1.0034	.99170	4.7921
#2	49.849	1.0192	19.864	.49720	.50913	5.1727	.51282	1.0035	1.0319	.01174	1.0067	1.0045	4.7987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99756**	**.49355**	**-.00520**	**.51180**	**1.0522**	**.00659**	**.51797**	**.50134**	**.49696**
Stddev	.00356	.00029	.00039	.00347	.0036	.00388	.00251	.00193	.00130
%RSD	.35701	.05872	7.5427	.67724	.33956	58.908	.48397	.38544	.26156
#1	.99504	.49375	-.00548	.51425	1.0496	.00933	.51975	.50270	.49604
#2	1.0001	.49334	-.00492	.50935	1.0547	.00384	.51620	.49997	.49788
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5506.1**	**70797.**	**4981.3**
Stddev	23.0	229.	7.7
%RSD	.41701	.32409	.15535
#1	5522.4	70635.	4975.8
#2	5489.9	70959.	4986.8

Sample Name: CCB Acquired: 12/29/2011 1:56:50 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	W **-.02040**	**.00287**	W **.00289**	**.00016**	**.00000**	**.00311**	**.00203**	**-.00008**	**.00000**
Stddev	.00001	.00007	.00082	.00015	.00008	.0000	.00143	.00383	.00011	.0001
%RSD	2.7123	.33950	28.656	5.2631	48.101	1898.2	46.111	188.73	133.90	2388.1
#1	.00042	-.02035	.00229	.00300	.00010	-.00001	.00412	-.00068	.00000	-.00007
#2	.00043	-.02044	.00345	.00278	.00021	.00001	.00210	.00474	-.00016	.00006
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00156						
Low Limit		-.01800		-.00156						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00030**	**.00344**	**.03639**	**.00252**	**.00362**	**-.00007**	**.00032**	F **.11186**	**.00027**
Stddev	.00002	.00021	.00217	.01152	.00325	.00047	.00001	.00009	.00015	.00021
%RSD	84.132	70.035	63.197	31.645	128.87	12.936	9.5813	29.227	.13413	77.692
#1	.00001	-.00045	.00497	.04454	.00482	.00395	-.00008	.00026	.11197	.00041
#2	.00004	-.00015	.00190	.02825	.00022	.00329	-.00007	.00039	.11176	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit									.10000	
Low Limit									-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00151**	**-.00075**	**.00722**	**.00273**	**-.00173**	**-.00379**	**-.00022**	**.00022**	**.00097**	**.00010**
Stddev	.00000	.00053	.00079	.00061	.00086	.00569	.00131	.00002	.00117	.00034
%RSD	.11571	70.229	10.954	22.189	49.754	150.14	599.27	11.291	120.03	337.26
#1	-.00151	-.00113	.00666	.00230	-.00112	.00023	-.00115	.00020	.00015	.00034
#2	-.00151	-.00038	.00778	.00316	-.00234	-.00781	.00071	.00023	.00180	-.00014
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00804**	**-.00006**	**.00159**	**.00021**
Stddev	.00064	.03636	.00028	.00005	.00004
%RSD	90.542	452.21	489.17	3.0781	16.867
#1	-.00116	.03375	-.00025	.00155	.00018
#2	-.00025	-.01767	.00014	.00162	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5555.2**	**72394.**	**4944.4**
Stddev	4.6	310.	10.0
%RSD	.08325	.42884	.20312
#1	5551.9	72613.	4951.5
#2	5558.4	72174.	4937.3

Sample Name: CCVL1192076 Acquired: 12/29/2011 1:59:25 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01108**	**.08719**	**.01775**	**.10506**	**.01024**	**.00087**	**.11930**	**.20431**	**.00510**	**.01072**	**.01025**
Stddev	.00008	.00042	.00281	.00016	.00012	.00009	.00032	.00254	.00004	.00022	.00007
%RSD	.71903	.48448	15.827	.14943	1.1858	9.8856	.26461	1.2433	.86652	2.0711	.63769
#1	.01114	.08749	.01576	.10494	.01033	.00093	.11908	.20251	.00513	.01056	.01030
#2	.01103	.08690	.01974	.10517	.01015	.00081	.11953	.20610	.00506	.01087	.01021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01487**	**.10046**	**2.9658**	F **.01471**	**.21246**	**.01008**	**.01990**	**1.1133**	**.04229**	**2.9371**	**.00963**
Stddev	.00014	.00077	.0144	.00028	.00018	.00004	.00005	.0010	.00043	.0018	.00057
%RSD	.92780	.76645	.48557	1.8944	.08283	.43742	.24235	.09387	1.0228	.06138	5.9331
#1	.01497	.10101	2.9760	.01451	.21233	.01005	.01993	1.1126	.04260	2.9359	.01004
#2	.01477	.09992	2.9556	.01490	.21258	.01011	.01986	1.1141	.04199	2.9384	.00923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				30.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00355**	**.00934**	**.01510**	**.46996**	**.10064**	**.00999**	**.01427**	**.01012**	**.01631**	W **.07783**	**.01036**
Stddev	.00279	.00103	.00167	.00578	.00021	.00013	.00056	.00015	.00011	.00574	.00025
%RSD	78.625	11.072	11.055	1.2303	.20661	1.3232	3.9294	1.5058	.70148	7.3778	2.4415
#1	.00158	.01007	.01628	.46587	.10050	.01008	.01466	.01023	.01639	.07377	.01018
#2	.00552	.00861	.01392	.47405	.10079	.00990	.01387	.01001	.01623	.08189	.01054
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value										.06000	
Range										20.000%	

Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02164**	**.01610**
Stddev	.00037	.00017
%RSD	1.6929	1.0461
#1	.02190	.01622
#2	.02138	.01598
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5589.0**	**72613.**	**4993.0**
Stddev	.9	105.	28.2
%RSD	.01524	.14437	.56404
#1	5588.3	72687.	5012.9
#2	5589.6	72539.	4973.1

Sample Name: 280-24121-a-4-c Acquired: 12/29/2011 2:01:58 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**179.64**	**.05793**	**.18848**	**1.9751**	**.00580**	W **-.01839**	**389.34**	**.00178**	**.06982**
Stddev	.00019	.70	.00129	.00144	.0089	.00005	.00152	3.46	.00018	.00017
%RSD	32.677	.38712	2.2272	.76210	.45315	.85447	8.2577	.88910	10.205	.24700
#1	.00070	179.15	.05702	.18949	1.9688	.00576	-.01732	386.89	.00165	.06994
#2	.00044	180.13	.05884	.18746	1.9814	.00583	-.01947	391.79	.00191	.06970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit							3.0000			
Low Limit							-.01000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.66841**	**.30785**	**186.35**	**39.509**	**.13432**	**105.64**	**3.0932**	**.03570**	**14.677**	**.19349**
Stddev	.00034	.00000	.86	.142	.00001	.14	.0135	.00040	.027	.00029
%RSD	.05074	.00159	.46307	.35840	.00536	.13090	.43705	1.1190	.18489	.15083
#1	.66865	.30785	185.74	39.409	.13433	105.55	3.0837	.03599	14.696	.19370
#2	.66817	.30784	186.96	39.609	.13432	105.74	3.1028	.03542	14.658	.19329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.5307**	**.56934**	**18.227**	**-.00901**	**.00574**	**4.1536**	**.00555**	**1.4357**	**.02648**	**5.9218**
Stddev	.0041	.00185	.035	.00137	.00535	.0009	.00047	.0047	.00182	.0108
%RSD	.05438	.32528	.19343	15.211	93.265	.02072	8.5278	.32759	6.8697	.18254
#1	7.5336	.56803	18.252	-.00998	.00195	4.1530	.00589	1.4324	.02776	5.9142
#2	7.5278	.57065	18.202	-.00804	.00952	4.1543	.00522	1.4390	.02519	5.9294
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00217**	**.07786**	**.75153**	**.66897**	**.19130**
Stddev	.00011	.01922	.00189	.00217	.00101
%RSD	4.9127	24.691	.25137	.32491	.52631
#1	.00224	.06427	.75020	.66744	.19059
#2	.00209	.09145	.75287	.67051	.19202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5532.6**	**69220.**	**5356.1**
Stddev	5.5	105.	12.9
%RSD	.09880	.15175	.24164
#1	5528.8	69295.	5365.2
#2	5536.5	69146.	5346.9

Sample Name: 280-24121-a-5-g Acquired: 12/29/2011 2:04:35 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**156.90**	**.06565**	**.16104**	**1.9707**	**.00553**	W **-.01750**	**361.55**	**.00141**	**.07121**
Stddev	.00002	.15	.00113	.00086	.0012	.00011	.00040	1.08	.00006	.00027
%RSD	9.6179	.09560	1.7157	.53586	.06155	1.9449	2.3092	.29795	3.9206	.37875
#1	.00018	157.01	.06485	.16165	1.9715	.00560	-.01722	360.79	.00137	.07102
#2	.00015	156.80	.06645	.16043	1.9698	.00545	-.01779	362.31	.00145	.07140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit							3.0000			
Low Limit							-.01000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.73245**	**.31857**	**176.54**	**28.536**	**.12875**	**97.155**	**3.3309**	**.01899**	**12.887**	**.18589**
Stddev	.00064	.00118	.16	.024	.00124	.077	.0095	.00004	.144	.00023
%RSD	.08793	.36891	.09104	.08272	.96561	.07938	.28614	.23449	1.1195	.12405
#1	.73199	.31774	176.65	28.553	.12962	97.101	3.3242	.01896	12.785	.18573
#2	.73290	.31940	176.42	28.520	.12787	97.210	3.3376	.01902	12.989	.18605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.4683**	**.43264**	**24.310**	**-.00943**	**.00726**	**3.4377**	**.00377**	**1.4334**	**.03001**	**5.3464**
Stddev	.0006	.00011	.017	.00303	.00000	.0052	.00015	.0003	.00201	.0042
%RSD	.00837	.02516	.07063	32.115	.05254	.15037	3.9698	.02261	6.7015	.07819
#1	7.4678	.43272	24.322	-.01157	.00725	3.4413	.00366	1.4336	.03143	5.3434
#2	7.4687	.43256	24.298	-.00729	.00726	3.4340	.00388	1.4332	.02859	5.3493
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.04237**	**.63327**	**1.0214**	**.17574**
Stddev	.00105	.02478	.00074	.0008	.00119
%RSD	190.35	58.478	.11742	.07898	.67936
#1	.00129	.02485	.63274	1.0220	.17658
#2	-.00019	.05989	.63379	1.0208	.17490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5551.5**	**69965.**	**5352.6**
Stddev	3.0	42.	13.5
%RSD	.05337	.06014	.25236
#1	5553.6	69935.	5362.1
#2	5549.4	69995.	5343.0

Sample Name: 280-24121-a-6-c Acquired: 12/29/2011 2:07:10 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**164.18**	**.06105**	**.16049**	**2.2929**	**.00576**	W **-.01530**	**455.62**	**.00150**	**.07372**
Stddev	.00115	.43	.00253	.00052	.0083	.00002	.00027	.53	.00011	.00004
%RSD	652.76	.25903	4.1470	.32168	.35993	.28266	1.7709	.11717	7.1506	.05198
#1	-.00064	164.48	.05926	.16086	2.2987	.00575	-.01511	455.25	.00157	.07369
#2	.00099	163.88	.06284	.16013	2.2870	.00578	-.01549	456.00	.00142	.07375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit							3.0000			
Low Limit							-.01000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.58955**	**.32003**	**180.98**	**30.920**	**.13349**	**96.869**	**4.2221**	**.02355**	**15.532**	**.19512**
Stddev	.00091	.00042	.53	.071	.00097	.214	.0208	.00008	.010	.00028
%RSD	.15362	.13090	.29385	.23077	.72773	.22054	.49157	.33934	.06315	.14417
#1	.59019	.31974	181.35	30.971	.13418	96.718	4.2075	.02349	15.525	.19532
#2	.58891	.32033	180.60	30.870	.13280	97.020	4.2368	.02361	15.539	.19492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.8392**	**.48721**	**24.026**	**-.00711**	**.00217**	**3.4976**	**.00445**	**1.5580**	**.02823**	**5.4271**
Stddev	.0139	.00005	.041	.00175	.00246	.0162	.00083	.0051	.00126	.0040
%RSD	.17775	.01046	.17093	24.570	113.54	.46254	18.719	.32977	4.4688	.07429
#1	7.8490	.48717	24.055	-.00835	.00043	3.5090	.00387	1.5616	.02734	5.4242
#2	7.8293	.48724	23.997	-.00588	.00391	3.4861	.00504	1.5543	.02912	5.4299
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.06979**	**.64959**	**.74449**	**.18516**
Stddev	.00159	.02201	.00091	.00161	.00248
%RSD	1041.2	31.545	.14049	.21675	1.3397
#1	.00097	.08535	.65024	.74334	.18691
#2	-.00128	.05422	.64895	.74563	.18340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5503.2**	**69245.**	**5335.8**
Stddev	5.4	116.	18.4
%RSD	.09880	.16732	.34408
#1	5499.3	69327.	5322.8
#2	5507.0	69163.	5348.8

Sample Name: 280-24121-a-7-c Acquired: 12/29/2011 2:09:45 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**112.96**	**.03591**	**.07476**	**1.4787**	**.00534**	W **-.01313**	**304.48**	**.00106**	**.06569**
Stddev	.00017	.34	.00182	.00041	.0047	.00003	.00130	.27	.00021	.00012
%RSD	583.74	.29883	5.0744	.55006	.31590	.62279	9.8982	.08893	19.506	.18884
#1	-.00009	113.20	.03720	.07447	1.4820	.00536	-.01405	304.28	.00092	.06560
#2	.00015	112.72	.03463	.07505	1.4754	.00531	-.01221	304.67	.00121	.06578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit							3.0000			
Low Limit							-.01000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22057**	**.29345**	**154.97**	**16.968**	**.10236**	**102.83**	**3.1223**	**.01455**	**19.242**	**.14557**
Stddev	.00008	.00057	.73	.110	.00004	.34	.0019	.00017	.019	.00032
%RSD	.03427	.19378	.47028	.64779	.04072	.33351	.05983	1.1701	.10061	.21741
#1	.22063	.29385	155.48	17.046	.10233	103.07	3.1236	.01443	19.228	.14534
#2	.22052	.29305	154.45	16.890	.10239	102.59	3.1210	.01467	19.255	.14579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.8396**	**.08186**	**1.8194**	**-.00395**	**.00234**	**3.1272**	**.00052**	**1.0735**	**.02139**	**4.8997**
Stddev	.0034	.00077	.0011	.00034	.00074	.0289	.00077	.0041	.00068	.0168
%RSD	.03415	.94396	.06258	8.6733	31.792	.92309	149.53	.38520	3.1564	.34262
#1	9.8372	.08131	1.8202	-.00371	.00286	3.1476	-.00003	1.0764	.02091	4.9116
#2	9.8420	.08241	1.8186	-.00419	.00181	3.1067	.00106	1.0705	.02186	4.8878
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00111**	**.07685**	**.41917**	**.33982**	**.11837**
Stddev	.00112	.01038	.00045	.00036	.00159
%RSD	101.78	13.510	.10732	.10546	1.3403
#1	.00190	.06951	.41949	.34007	.11725
#2	.00031	.08419	.41885	.33956	.11949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5437.8**	**69098.**	**5198.2**
Stddev	8.6	208.	38.6
%RSD	.15830	.30068	.74295
#1	5431.7	68951.	5170.9
#2	5443.9	69245.	5225.5

Sample Name: 280-24121-a-8-c Acquired: 12/29/2011 2:12:21 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**134.92**	**.04451**	**.11376**	**1.8572**	**.00504**	W **-.01447**	**484.83**	**.00136**	**.07250**
Stddev	.00037	.33	.00478	.00022	.0044	.00009	.00317	2.18	.00010	.00014
%RSD	72.596	.24538	10.728	.19417	.23744	1.7120	21.933	.44889	7.5903	.19537
#1	.00025	134.69	.04114	.11392	1.8540	.00498	-.01222	486.37	.00143	.07240
#2	.00078	135.16	.04789	.11361	1.8603	.00510	-.01671	483.29	.00129	.07260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit							3.0000			
Low Limit							-.01000			

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.63684**	**.39756**	**191.16**	**22.422**	**.11411**	**117.57**	**3.8860**	**.02896**	**12.687**	**.19226**
Stddev	.00079	.00075	.57	.067	.00222	.14	.0125	.00006	.066	.00022
%RSD	.12428	.18962	.29676	.29674	1.9493	.12225	.32110	.21614	.51635	.11428
#1	.63628	.39810	190.76	22.375	.11568	117.67	3.8772	.02891	12.640	.19211
#2	.63740	.39703	191.56	22.469	.11253	117.47	3.8948	.02900	12.733	.19242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.065**	**.77778**	**16.165**	**-.00899**	**.00311**	**3.1725**	**.00446**	**1.6599**	**.02578**	**5.5175**
Stddev	.007	.00004	.001	.00004	.00279	.0245	.00017	.0044	.00147	.0041
%RSD	.06518	.00461	.00739	.44356	89.482	.77353	3.9215	.26688	5.7118	.07477
#1	10.070	.77776	16.165	-.00896	.00114	3.1898	.00459	1.6567	.02682	5.5205
#2	10.060	.77781	16.166	-.00902	.00508	3.1551	.00434	1.6630	.02474	5.5146
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.10081**	**.58253**	**.60402**	**.17159**
Stddev	.00173	.00076	.00070	.00117	.00225
%RSD	309.65	.75711	.12091	.19289	1.3108
#1	.00178	.10135	.58203	.60485	.17318
#2	-.00066	.10028	.58303	.60320	.17000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5443.1**	**68608.**	**5285.0**
Stddev	8.5	36.	.3
%RSD	.15675	.05192	.00611
#1	5449.1	68583.	5285.2
#2	5437.0	68633.	5284.8

Sample Name: 280-24093-a-1-c Acquired: 12/29/2011 2:14:57 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	W **689.10**	**.00524**	**.02766**	**.03476**	**.00001**	W **-.01322**	W **1006.1**	**-.00041**	**.00184**
Stddev	.00047	3.23	.00291	.00037	.00026	.00009	.00112	10.3	.00005	.00017
%RSD	124.47	.46868	55.559	1.3460	.74679	1455.4	8.4432	1.0236	12.024	9.1149
#1	-.00005	691.38	.00318	.02792	.03494	-.00006	-.01243	1013.4	-.00037	.00196
#2	-.00071	686.82	.00729	.02739	.03458	.00007	-.01401	998.83	-.00044	.00172
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass
High Limit		500.00					3.0000	500.00		
Low Limit		4.0000					-.01000	-.05000		

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Na8183
Line	205.552 {464}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	818.326 { 41}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00845**	**.03028**	**7.4473**	**.67787**	**.00328**	**5.3257**	**.11733**	**.00471**	W **9.6001**	W **9.5052**
Stddev	.00002	.00013	.0388	.01520	.00013	.0033	.00056	.00011	.0542	.0259
%RSD	.18997	.42700	.52055	2.2426	3.9537	.06279	.47307	2.4022	.56459	.27292
#1	.00846	.03038	7.4747	.66712	.00337	5.3281	.11773	.00463	9.6384	9.4868
#2	.00844	.03019	7.4199	.68862	.00319	5.3233	.11694	.00479	9.5618	9.5235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn
High Limit									9.0000	500.00
Low Limit									-.50000	10.000

Elem	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837
Line	231.604 {446}	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03006**	**2.1190**	**.00991**	**2.8618**	**-.00015**	**.00674**	**1.4928**	**.00537**	**.62740**	**.00708**
Stddev	.00028	.0065	.00096	.0063	.00292	.00365	.0273	.00136	.00333	.00068
%RSD	.93251	.30502	9.6435	.21911	1917.5	54.155	1.8310	25.372	.53088	9.6472
#1	.03025	2.1236	.00923	2.8574	-.00222	.00931	1.5122	.00441	.62976	.00660
#2	.02986	2.1144	.01058	2.8662	.00191	.00416	1.4735	.00634	.62505	.00757
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	334.904 {101}	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42265**	**-.00153**	**-.00505**	**.06651**	**.27864**	**.02049**
Stddev	.00081	.00238	.00679	.00047	.00086	.00105
%RSD	.19078	154.97	134.41	.70697	.30833	5.1371
#1	.42322	.00015	-.00025	.06684	.27925	.02124
#2	.42208	-.00321	-.00985	.06617	.27804	.01975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**4953.5**	**61313.**	**4770.2**
Stddev	6.9	6.	22.9
%RSD	.13840	.00920	.48032
#1	4948.6	61309.	4754.0
#2	4958.3	61317.	4786.4

Sample Name: 280-24093-a-2-a Acquired: 12/29/2011 2:18:11 Type: Unk
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment: 101503 SOIL/6010B

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Line	328.068 {103}	309.271 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	223.061 {451}	317.933 {106}	228.802 {447}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01577**	**130.23**	**.07926**	**.67490**	**10.041**	**.00396**	**-.00674**	**431.65**	**.02881**	**.07885**
Stddev	.00015	.05	.00080	.00136	.006	.00006	.00113	2.29	.00000	.00030
%RSD	.97754	.03786	1.0053	.20097	.05833	1.4459	16.837	.53014	.01728	.38318
#1	.01566	130.19	.07982	.67394	10.037	.00391	-.00754	433.27	.02881	.07864
#2	.01588	130.26	.07870	.67586	10.045	.00400	-.00594	430.03	.02881	.07907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2055	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	205.552 {464}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.61751**	**.72232**	**185.97**	**32.143**	**.19655**	**72.662**	**2.6176**	**.16909**	**109.37**	**.67314**
Stddev	.00060	.00059	.48	.022	.00078	.057	.0006	.00036	.23	.00091
%RSD	.09718	.08202	.25868	.06939	.39687	.07804	.02375	.21482	.21218	.13566
#1	.61709	.72190	185.63	32.127	.19710	72.622	2.6172	.16935	109.53	.67250
#2	.61794	.72274	186.31	32.159	.19600	72.702	2.6181	.16883	109.20	.67379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	178.284 {489}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.694**	**.35315**	**126.78**	**-.00728**	**.01527**	**2.4502**	**.07042**	**1.4138**	**.02876**	**4.0109**
Stddev	.012	.00040	.08	.00160	.00248	.0208	.00006	.0002	.00197	.0029
%RSD	.09852	.11231	.06626	22.018	16.261	.84668	.08187	.01635	6.8384	.07126
#1	11.686	.35287	126.72	-.00841	.01702	2.4356	.07038	1.4136	.03015	4.0089
#2	11.702	.35343	126.84	-.00615	.01351	2.4649	.07046	1.4139	.02737	4.0129
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Line	190.856 {477}	370.152 { 91}	292.402 {115}	206.200 {163}	339.198 { 99}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.08919**	**.77981**	**1.9746**	**.12112**
Stddev	.00017	.01046	.00148	.0045	.00061
%RSD	17.170	11.729	.18929	.22834	.50672
#1	.00113	.08179	.77877	1.9714	.12068
#2	.00089	.09658	.78086	1.9778	.12155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Line	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S
Avg	**5656.7**	**70576.**	**5468.7**
Stddev	.9	83.	18.3
%RSD	.01526	.11711	.33412
#1	5657.3	70634.	5481.6
#2	5656.1	70517.	5455.8

Sample Name: CCVH-1190977 Acquired: 12/29/2011 2:20:38 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3092	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00311**	**49.707**	**-.00011**	**.00434**	**.00206**	**.00004**	**1.0132**	**.11473**	**-.00148**	**.00231**	**.00026**	**-.00396**	**48.716**
Stddev	.00020	.126	.00361	.00001	.00011	.00001	.0015	.00943	.00014	.00013	.00001	.00012	.048
%RSD	6.3211	.25258	3222.9	.15185	5.5684	27.931	.15313	8.2174	9.6565	5.5828	5.1905	3.1513	.09941
#1	.00297	49.796	.00244	.00433	.00215	.00003	1.0121	.12139	-.00158	.00222	.00025	-.00405	48.681
#2	.00325	49.618	-.00267	.00434	.00198	.00004	1.0143	.10806	-.00138	.00240	.00027	-.00387	48.750
Check ?	None	Chk Pass	None	None	None	None	Chk Pass	None	None	None	None	None	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11266**	**.00554**	**.04628**	**-.00034**	**-.00104**	**256.87**	**.00196**	**.00591**	**.00000**	**5.2989**	**-.00681**	**.00312**	**-.00958**
Stddev	.00183	.00415	.00014	.00012	.00002	.13	.00019	.00254	.00149	.0030	.00063	.00367	.00671
%RSD	1.6200	74.946	.29255	35.298	1.7101	.04902	9.4374	43.042	46994.	.05600	9.2737	117.78	70.026
#1	.11395	.00847	.04619	-.00025	-.00103	256.96	.00183	.00771	-.00105	5.2968	-.00725	.00052	-.00483
#2	.11137	.00260	.04638	-.00042	-.00105	256.78	.00209	.00411	.00106	5.3010	-.00636	.00572	-.01432
Check ?	None	None	None	None	None	Chk Pass	None	None	None	None	None	None	None
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00072**	**5.1360**	**-.02228**	**.00208**	**10.421**	**.00519**	**.00345**	**-.11931**
Stddev	.00019	.00001	.0053	.00030	.00080	.017	.00070	.00003	.00118
%RSD	15.412	.99450	.10216	1.3408	38.565	.16474	13.459	1.0055	.98711
#1	.00110	.00071	5.1397	-.02207	.00264	10.409	.00469	.00348	-.12015
#2	.00137	.00072	5.1323	-.02249	.00151	10.434	.00568	.00343	-.11848
Check ?	None	None	Chk Pass	None	None	Chk Pass	None	None	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5356.2**	**68080.**	**4880.9**
Stddev	15.9	181.	6.5
%RSD	.29749	.26553	.13406
#1	5345.0	68208.	4876.3
#2	5367.5	67953.	4885.6

Sample Name: CCV-1190978 Acquired: 12/29/2011 2:23:08 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52295**	**.50267**	**.99848**	**.50948**	**.51644**	**.48001**	**.00202**	**5.0594**	**.50955**	**.51791**	**.51673**	**.49562**	**2.4376**
Stddev	.00176	.00165	.00454	.00039	.00089	.00055	.00159	.0069	.00012	.00030	.00067	.00280	.0007
%RSD	.33650	.32902	.45428	.07708	.17156	.11414	78.968	.13710	.02361	.05881	.12962	.56530	.02973
#1	.52419	.50384	.99527	.50976	.51581	.47962	.00315	5.0545	.50964	.51812	.51721	.49760	2.4381
#2	.52170	.50150	1.0017	.50920	.51706	.48040	.00089	5.0643	.50947	.51769	.51626	.49363	2.4371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.673**	**1.0208**	**19.800**	**.49688**	**.50565**	**5.2402**	**.50940**	**.99847**	**1.0251**	**.01435**	**.99001**	**.98780**	**4.8151**
Stddev	.015	.0012	.050	.00098	.00001	.0155	.00055	.00309	.0016	.00213	.00114	.00155	.0125
%RSD	.02927	.11403	.25315	.19792	.00290	.29479	.10857	.30920	.15844	14.836	.11479	.15711	.25871
#1	49.683	1.0216	19.835	.49758	.50564	5.2511	.50979	.99629	1.0262	.01586	.98921	.98890	4.8063
#2	49.662	1.0200	19.764	.49619	.50566	5.2292	.50901	1.0007	1.0239	.01285	.99081	.98671	4.8239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98986**	**.49183**	**-.00483**	**.51202**	**1.0479**	**.01762**	**.51882**	**.49882**	**.49621**
Stddev	.00031	.00025	.00026	.00159	.0000	.02643	.00053	.00195	.00090
%RSD	.03097	.05049	5.3444	.31039	.00208	149.99	.10193	.39047	.18193
#1	.98964	.49166	-.00501	.51315	1.0479	.03632	.51919	.50020	.49685
#2	.99007	.49201	-.00464	.51090	1.0480	-.00107	.51844	.49744	.49557
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5463.3**	**70416.**	**4924.1**
Stddev	2.8	252.	11.3
%RSD	.05111	.35795	.23034
#1	5461.3	70594.	4932.1
#2	5465.2	70238.	4916.0

Sample Name: CCB Acquired: 12/29/2011 2:25:26 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	W **-.02086**	**-.00005**	W **.00221**	**.00028**	**.00002**	**.00080**	**.00755**	**-.00014**	**.00002**
Stddev	.00025	.00023	.00088	.00009	.00017	.00004	.00187	.00631	.00009	.00010
%RSD	208.04	1.1104	1858.7	4.0640	59.021	209.89	233.08	83.556	65.021	541.59
#1	-.00029	-.02069	-.00067	.00227	.00040	-.00001	.00212	.01202	-.00021	.00009
#2	.00006	-.02102	.00057	.00215	.00016	.00005	-.00052	.00309	-.00008	-.00005
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.01800		.00156						
Low Limit		-.01800		-.00156						

Elem	Cr2055	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00043**	**.00424**	**.04568**	F **.00658**	**.00283**	**-.00012**	**.00039**	F **.12418**	**.00028**
Stddev	.00001	.00023	.00191	.00799	.00013	.00272	.00004	.00003	.00840	.00018
%RSD	45.289	53.396	44.941	17.489	1.9908	95.901	35.307	7.2582	6.7672	63.662
#1	.00004	-.00059	.00559	.04003	.00648	.00091	-.00009	.00037	.13012	.00041
#2	.00002	-.00027	.00290	.05133	.00667	.00475	-.00016	.00041	.11824	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					.00522				.10000	
Low Limit					-.00522				-.10000	

Elem	P_1782	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00261**	**-.00035**	**.00793**	**.00312**	**-.00358**	**-.00067**	**-.00007**	**.00025**	**-.00025**	**.00000**
Stddev	.00225	.00031	.00065	.00058	.00243	.00420	.00022	.00008	.00019	.00026
%RSD	86.141	89.720	8.1828	18.694	67.943	625.23	317.01	32.496	76.044	6336.6
#1	-.00420	-.00013	.00747	.00271	-.00186	-.00365	.00009	.00019	-.00011	-.00018
#2	-.00102	-.00057	.00839	.00353	-.00530	.00230	-.00023	.00030	-.00038	.00019
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Tl1908	U_3701	V_2924	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.01960**	**-.00001**	**.00183**	**-.00155**
Stddev	.00060	.01938	.00046	.00004	.00057
%RSD	90.877	98.895	4279.3	2.1768	36.925
#1	.00109	.00589	-.00033	.00180	-.00195
#2	.00024	.03330	.00031	.00186	-.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5509.9**	**71985.**	**4933.3**
Stddev	2.2	150.	2.3
%RSD	.03910	.20841	.04756
#1	5511.4	72091.	4935.0
#2	5508.4	71879.	4931.7

Sample Name: CCVL1192076 Acquired: 12/29/2011 2:28:07 Type: QC
Method: 6500_026(v4) Mode: CONC Corr. Factor: 1.000000
User: bowenh Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al1670	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3179	Cd2288	Co2286	Cr2055
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01081**	**.08714**	W **.01855**	**.10570**	**.01068**	**.00092**	W **.12147**	**.20111**	**.00510**	**.01102**	**.01046**
Stddev	.00002	.00046	.00153	.00007	.00000	.00007	.00204	.00303	.00005	.00001	.00001
%RSD	.19747	.52903	8.2405	.06961	.01048	7.7256	1.6784	1.5078	.95298	.05948	.11119
#1	.01083	.08682	.01747	.10565	.01068	.00087	.12291	.19896	.00507	.01103	.01046
#2	.01080	.08747	.01963	.10576	.01068	.00097	.12003	.20325	.00514	.01102	.01047
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.01500				.10000				
Range			20.000%				20.000%				

Elem	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_1782	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01489**	**.09752**	**2.9261**	F **.01447**	**.20968**	**.01010**	**.01990**	**1.1244**	**.04220**	**2.9587**	**.00895**
Stddev	.00016	.00090	.0379	.00228	.00100	.00006	.00005	.0105	.00028	.0072	.00036
%RSD	1.0488	.92597	1.2967	15.776	.47552	.61776	.23372	.93688	.66209	.24381	3.9985
#1	.01500	.09688	2.9530	.01286	.21038	.01014	.01993	1.1170	.04240	2.9536	.00870
#2	.01478	.09815	2.8993	.01608	.20897	.01006	.01986	1.1319	.04201	2.9638	.00920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.01000							
Range				30.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	U_3701	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00694**	**.01071**	**.01405**	**.46704**	**.10125**	**.00990**	**.01448**	**.01023**	**.01614**	W **.07549**	**.01016**
Stddev	.00038	.00340	.00298	.00231	.00042	.00007	.00031	.00036	.00006	.00958	.00015
%RSD	5.4942	31.711	21.211	.49450	.41763	.75423	2.1669	3.5547	.39499	12.687	1.4465
#1	.00721	.01312	.01616	.46540	.10095	.00984	.01426	.01048	.01610	.08226	.01026
#2	.00667	.00831	.01194	.46867	.10155	.00995	.01471	.00997	.01619	.06872	.01006
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value										.06000	
Range										20.000%	

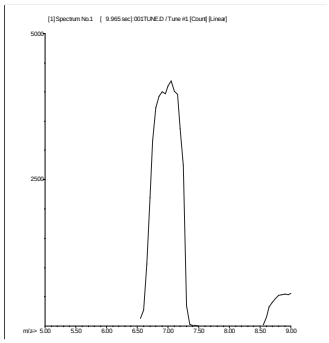
Elem	Zn2062	Zr3391
Units	ppm	ppm
Avg	**.02169**	**.01554**
Stddev	.00006	.00198
%RSD	.27796	12.713
#1	.02165	.01694
#2	.02173	.01415
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S
Avg	**5543.7**	**71990.**	**4945.0**
Stddev	2.7	63.	14.5
%RSD	.04857	.08817	.29387
#1	5545.6	71945.	4955.3
#2	5541.8	72035.	4934.7

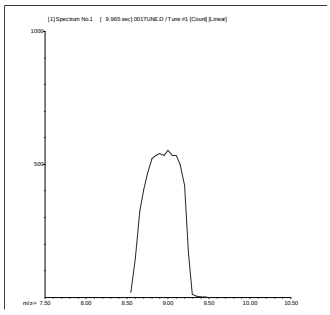
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\001TUNE.D
Date Acquired: Dec 28 2011 05:09 pm
Acq. Method: tun_isis.M
Operator: LRD
Sample Name: ITUNE-1109063
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

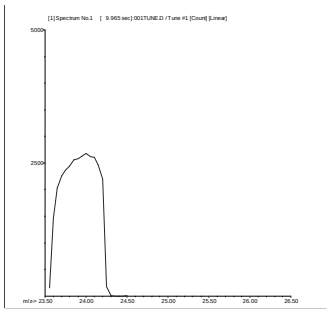
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
7 Li	45221	45677	45233	45277	45714	44202	**1.35**	5.00	
9 Be	6201	5908	6194	6344	6271	6288	**2.78**	5.00	
24 Mg	31207	30177	31433	31170	31638	31619	**1.94**	5.00	
59 Co	219465	213304	220403	220392	225891	217335	**2.11**	5.00	
115 In	2821572	2793035	2838275	2772850	2863393	2840308	**1.32**	5.00	
208 Pb	148037	145498	147015	150719	149854	147100	**1.47**	5.00	
238 U	267728	258285	267062	270584	276248	266458	**2.45**	5.00	



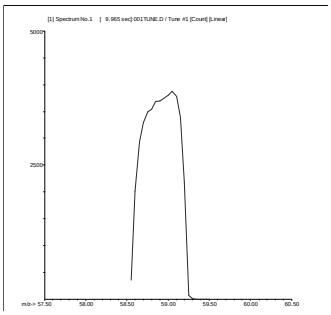
7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



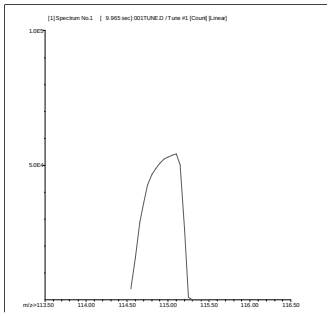
9 Be
Mass Calib.
Actual: 9.00
Required: 8.90 - 9.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



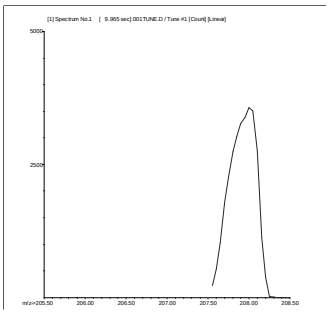
24 Mg
Mass Calib.
Actual: 24.00
Required: 23.90 - 24.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



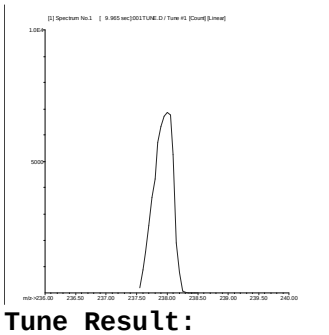
59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



208 Pb
Mass Calib.
Actual: 207.95
Required: 207.90 - 208.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



238 U
Mass Calib.
Actual: 237.95
Required: 237.90 - 238.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:

Tune Result: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#
Date Acquired: Dec 28 2011 05:15 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: IC-1192705
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:13 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	7	173.21
51	V	72	1	239	127.02
52	Cr	72	1	1630	21.79
55	Mn	72	1	1030	4.23
59	Co	72	1	127	9.12
60	Ni	72	1	107	14.32
63	Cu	72	1	1077	5.60
66	Zn	72	1	427	0.27
75	As	72	1	107	3.88
78	Se	72	1	390	22.35
95	Mo	72	1	173	8.81
107	Ag	115	1	27	86.60
111	Cd	115	1	22	60.36
118	Sn	115	1	207	11.17
121	Sb	115	1	34	33.99
137	Ba	115	1	49	33.63
205	Tl	165	1	194	0.99
208	Pb	165	1	619	7.47
232	Th	165	1	87	46.63
238	U	165	1	77	15.06

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	813856	2.16
45	Sc	1	3365388	0.62
72	Ge	1	2009611	1.10
115	In	1	5142726	1.44
165	Ho	1	9667228	1.63

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\004ICAL.D\004ICAL.D#
Date Acquired: Dec 28 2011 05:18 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: IC-1192690
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:16 pm
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	99581	1.56
51	V	72	1	2328805	2.95
52	Cr	72	1	2482240	2.98
55	Mn	72	1	2142030	2.73
59	Co	72	1	3389249	2.14
60	Ni	72	1	826132	3.62
63	Cu	72	1	2041349	1.99
66	Zn	72	1	354628	2.07
75	As	72	1	248646	2.41
78	Se	72	1	34729	2.26
95	Mo	72	1	924720	2.97
107	Ag	115	1	2684566	0.78
111	Cd	115	1	451024	2.30
118	Sn	115	1	1169440	4.42
121	Sb	115	1	1303915	2.32
137	Ba	115	1	516193	3.02
205	Tl	165	1	4292259	0.74
208	Pb	165	1	5930753	1.58
232	Th	165	1	5619094	3.70
238	U	165	1	6047531	2.51

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	819654	1.50	813856	100.7	30 - 120	
45	Sc	1	3381532	1.09	3365388	100.5	30 - 120	
72	Ge	1	2020015	1.18	2009611	100.5	30 - 120	
115	In	1	5139646	1.19	5142726	99.9	30 - 120	
165	Ho	1	9709347	0.93	9667228	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\005_ICV.D\005_ICV.D#
Date Acquired: Dec 28 2011 05:21 pm
Operator: LRD
Sample Name: ICV-1192697
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	40.40	ppb	2.77	40	101.0	90 - 110	
51 V	72	1	41.72	ppb	2.68	40	104.3	90 - 110	
52 Cr	72	1	40.95	ppb	3.60	40	102.4	90 - 110	
55 Mn	72	1	41.54	ppb	5.79	40	103.9	90 - 110	
59 Co	72	1	41.54	ppb	2.63	40	103.9	90 - 110	
60 Ni	72	1	40.56	ppb	3.34	40	101.4	90 - 110	
63 Cu	72	1	40.27	ppb	1.76	40	100.7	90 - 110	
66 Zn	72	1	40.23	ppb	2.41	40	100.6	90 - 110	
75 As	72	1	40.96	ppb	1.59	40	102.4	90 - 110	
78 Se	72	1	39.80	ppb	1.65	40	99.5	90 - 110	
95 Mo	72	1	39.58	ppb	2.16	40	99.0	90 - 110	
107 Ag	115	1	42.85	ppb	0.99	40	107.1	90 - 110	
111 Cd	115	1	40.82	ppb	1.99	40	102.1	90 - 110	
118 Sn	115	1	39.57	ppb	2.53	40	98.9	90 - 110	
121 Sb	115	1	38.30	ppb	2.27	40	95.8	90 - 110	
137 Ba	115	1	40.40	ppb	1.82	40	101.0	90 - 110	
205 Tl	165	1	39.14	ppb	2.30	40	97.9	90 - 110	
208 Pb	165	1	40.68	ppb	1.83	40	101.7	90 - 110	
232 Th	165	1	41.04	ppb	2.97	40	102.6	90 - 110	
238 U	165	1	40.02	ppb	2.98	40	100.1	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	797886	0.36	813856	98.0	30 - 120	
45 Sc	1	3325614	2.17	3365388	98.8	30 - 120	
72 Ge	1	2006808	0.25	2009611	99.9	30 - 120	
115 In	1	5088702	0.61	5142726	98.9	30 - 120	
165 Ho	1	9713074	0.76	9667228	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\006WASH.D\006WASH.D#
Date Acquired: Dec 28 2011 05:24 pm
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.006 ppb	2.73	1.30	
51 V	72	1	5.067 ppb	2.69	6.50	
52 Cr	72	1	2.052 ppb	4.24	2.60	
55 Mn	72	1	1.079 ppb	5.08	1.30	
59 Co	72	1	1.011 ppb	4.35	1.30	
60 Ni	72	1	2.017 ppb	5.19	2.60	
63 Cu	72	1	2.022 ppb	3.39	2.60	
66 Zn	72	1	10.100 ppb	2.07	13.00	
75 As	72	1	5.104 ppb	3.54	6.50	
78 Se	72	1	4.874 ppb	9.72	6.50	
95 Mo	72	1	1.988 ppb	6.19	2.60	
107 Ag	115	1	5.153 ppb	1.28	6.50	
111 Cd	115	1	1.059 ppb	5.93	1.30	
118 Sn	115	1	10.040 ppb	3.03	13.00	
121 Sb	115	1	2.201 ppb	3.26	2.60	
137 Ba	115	1	0.996 ppb	2.77	1.30	
205 Tl	165	1	1.175 ppb	0.90	1.30	
208 Pb	165	1	1.009 ppb	1.71	1.30	
232 Th	165	1	2.097 ppb	3.05	2.60	
238 U	165	1	1.018 ppb	2.05	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	807292	0.77	813856	99.2	30 - 120	
45 Sc	1	3398693	2.07	3365388	101.0	30 - 120	
72 Ge	1	2024000	0.68	2009611	100.7	30 - 120	
115 In	1	5207174	0.56	5142726	101.3	30 - 120	
165 Ho	1	9706755	1.01	9667228	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\007_ICB.D\007_ICB.D#
Date Acquired: Dec 28 2011 05:27 pm
Operator: LRD
Sample Name: ICB-1192705
Misc Info:
Vial Number: 2104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: ICB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.00	ppb	62677.00	1.00	
51 V	72	1	0.01	ppb	185.62	1.00	
52 Cr	72	1	0.00	ppb	24.52	1.00	
55 Mn	72	1	0.00	ppb	59.21	1.00	
59 Co	72	1	0.00	ppb	125.26	1.00	
60 Ni	72	1	0.00	ppb	26.55	1.00	
63 Cu	72	1	0.00	ppb	430.16	1.00	
66 Zn	72	1	0.03	ppb	35.07	1.00	
75 As	72	1	0.02	ppb	19.85	1.00	
78 Se	72	1	-0.30	ppb	34.29	1.00	
95 Mo	72	1	0.01	ppb	52.96	1.00	
107 Ag	115	1	0.01	ppb	7.47	1.00	
111 Cd	115	1	0.01	ppb	19.26	1.00	
118 Sn	115	1	0.04	ppb	39.94	1.00	
121 Sb	115	1	0.08	ppb	6.36	1.00	
137 Ba	115	1	0.00	ppb	323.25	1.00	
205 Tl	165	1	0.04	ppb	4.81	1.00	
208 Pb	165	1	0.01	ppb	20.05	1.00	
232 Th	165	1	0.03	ppb	19.22	1.00	
238 U	165	1	0.00	ppb	21.85	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	792034	0.61	813856	97.3	30 - 120	
45 Sc	1	3381310	1.07	3365388	100.5	30 - 120	
72 Ge	1	2022259	1.01	2009611	100.6	30 - 120	
115 In	1	5189209	1.90	5142726	100.9	30 - 120	
165 Ho	1	9719927	0.81	9667228	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

RL STD QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\008RLST.D\008RLST.D#
Date Acquired: Dec 28 2011 05:30 pm
Operator: LRD
Sample Name: CRI-1192698
Misc Info:
Vial Number: 2105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: RLSTD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	0.98	ppb	2.06	1	97.5	80 - 120	
51 V	72	1	0.98	ppb	2.46	1	97.6	80 - 120	
52 Cr	72	1	1.01	ppb	4.49	1	100.8	80 - 120	
55 Mn	72	1	1.03	ppb	1.93	1	102.8	80 - 120	
59 Co	72	1	1.04	ppb	1.68	1	103.5	80 - 120	
60 Ni	72	1	1.03	ppb	3.26	1	103.4	80 - 120	
63 Cu	72	1	1.05	ppb	1.96	1	105.2	80 - 120	
66 Zn	72	1	10.35	ppb	1.32	10	103.5	80 - 120	
75 As	72	1	1.02	ppb	2.57	1	102.2	80 - 120	
78 Se	72	1	0.79	ppb	9.40	1	79.1	80 - 120	Fail
95 Mo	72	1	1.00	ppb	4.05	1	100.3	80 - 120	
107 Ag	115	1	0.99	ppb	1.17	1	99.1	80 - 120	
111 Cd	115	1	0.97	ppb	2.30	1	97.3	80 - 120	
118 Sn	115	1	10.07	ppb	0.99	10	100.7	80 - 120	
121 Sb	115	1	1.02	ppb	1.84	1	102.3	80 - 120	
137 Ba	115	1	1.03	ppb	0.97	1	102.6	80 - 120	
205 Tl	165	1	1.03	ppb	0.93	1	102.6	80 - 120	
208 Pb	165	1	0.99	ppb	3.10	1	99.0	80 - 120	
232 Th	165	1	0.97	ppb	3.76	1	97.3	80 - 120	
238 U	165	1	1.02	ppb	1.43	1	102.1	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	804329	3.11	813856	98.8	30 - 120	
45 Sc	1	3373197	0.25	3365388	100.2	30 - 120	
72 Ge	1	2028204	0.81	2009611	100.9	30 - 120	
115 In	1	5204578	1.65	5142726	101.2	30 - 120	
165 Ho	1	9788771	0.88	9667228	101.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

AFCEE RL QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\009AFCE.D\009AFCE.D#
Date Acquired: Dec 28 2011 05:32 pm
Operator: LRD
Sample Name: AFCEE RL-1192699
Misc Info:
Vial Number: 2106
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: AFCEERL
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	0.17	ppb	22.98	0	86.6	80 - 120	
51 V	72	1	0.20	ppb	9.58	0	100.5	80 - 120	
52 Cr	72	1	0.41	ppb	5.25	0	201.4	80 - 120	
55 Mn	72	1	0.21	ppb	1.84	0	101.3	80 - 120	
59 Co	72	1	0.21	ppb	2.80	0	100.7	80 - 120	
60 Ni	72	1	0.24	ppb	5.47	0	117.6	80 - 120	
63 Cu	72	1	0.22	ppb	10.68	0	105.0	80 - 120	
66 Zn	72	1	2.13	ppb	3.10	2	102.9	80 - 120	
75 As	72	1	0.24	ppb	2.80	0	115.1	80 - 120	
78 Se	72	1	0.45	ppb	17.61	0	286.3	80 - 120	
95 Mo	72	1	0.34	ppb	3.55	0	169.3	80 - 120	
107 Ag	115	1	0.19	ppb	5.41	0	94.1	80 - 120	
111 Cd	115	1	0.19	ppb	2.69	0	99.6	80 - 120	
118 Sn	115	1	2.10	ppb	5.50	2	104.4	80 - 120	
121 Sb	115	1	0.22	ppb	6.97	0	109.9	80 - 120	
137 Ba	115	1	0.23	ppb	4.70	0	110.5	80 - 120	
205 Tl	165	1	0.22	ppb	3.01	0	106.4	80 - 120	
208 Pb	165	1	0.20	ppb	4.15	0	102.8	80 - 120	
232 Th	165	1	0.21	ppb	6.25	0	105.5	80 - 120	
238 U	165	1	0.20	ppb	3.88	0	100.0	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	808827	2.30	813856	99.4	30 - 120	
45 Sc	1	3412561	0.97	3365388	101.4	30 - 120	
72 Ge	1	2038948	1.14	2009611	101.5	30 - 120	
115 In	1	5278343	1.68	5142726	102.6	30 - 120	
165 Ho	1	9884147	0.94	9667228	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\010ICSA.D\010ICSA.D#
Date Acquired: Dec 28 2011 05:35 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: ICSA-1192701
Misc Info:
Vial Number: 2108
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: ICSA
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
9	Be	6	1	0.01 ppb	57.16	1.00	
51	V	72	1	0.17 ppb	35.01	1.00	
52	Cr	72	1	1.19 ppb	1.52	1.00	
55	Mn	72	1	0.58 ppb	6.37	1.00	
59	Co	72	1	0.05 ppb	3.36	1.00	
60	Ni	72	1	0.87 ppb	2.10	1.00	
63	Cu	72	1	0.35 ppb	3.08	1.00	
66	Zn	72	1	2.33 ppb	2.75	10.00	
75	As	72	1	0.52 ppb	5.94	1.00	
78	Se	72	1	0.11 ppb	221.27	1.00	
95	Mo	72	1	1991.00 ppb	3.63	2000.00	
107	Ag	115	1	0.06 ppb	4.40	1.00	
111	Cd	115	1	0.50 ppb	9.20	1.00	
118	Sn	115	1	0.14 ppb	15.66	10.00	
121	Sb	115	1	0.30 ppb	6.69	1.00	
137	Ba	115	1	0.18 ppb	2.33	1.00	
205	Tl	165	1	0.07 ppb	42.67	1.00	
208	Pb	165	1	0.15 ppb	5.15	1.00	
232	Th	165	1	0.04 ppb	3.91	1.00	
238	U	165	1	0.01 ppb	9.01	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	734254	2.76	813856	90.2	30 - 120	
45	Sc	1	2965091	2.84	3365388	88.1	30 - 120	
72	Ge	1	1708779	1.70	2009611	85.0	30 - 120	
115	In	1	4346527	1.68	5142726	84.5	30 - 120	
165	Ho	1	8545997	0.95	9667228	88.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\011ICSB.D\011ICSB.D#
Date Acquired: Dec 28 2011 05:38 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: ICSAB-1192702
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9 Be	6	1	103.40	1.32	100	103.4	80 - 120	
51 V	72	1	105.70	2.67	100	105.7	80 - 120	
52 Cr	72	1	103.80	2.52	100	103.8	80 - 120	
55 Mn	72	1	103.10	2.55	100	103.1	80 - 120	
59 Co	72	1	99.62	2.75	100	99.6	80 - 120	
60 Ni	72	1	95.27	2.18	100	95.3	80 - 120	
63 Cu	72	1	93.82	2.37	100	93.8	80 - 120	
66 Zn	72	1	100.90	2.41	100	100.9	80 - 120	
75 As	72	1	105.10	2.39	100	105.1	80 - 120	
78 Se	72	1	108.30	2.08	100	108.3	80 - 120	
95 Mo	72	1	2142.00	3.58	2100	102.0	80 - 120	
107 Ag	115	1	90.75	1.57	100	90.8	80 - 120	
111 Cd	115	1	97.86	3.16	100	97.9	80 - 120	
118 Sn	115	1	104.20	4.27	100	104.2	80 - 120	
121 Sb	115	1	106.10	2.98	100	106.1	80 - 120	
137 Ba	115	1	105.10	2.18	100	105.1	80 - 120	
205 Tl	165	1	94.28	1.38	100	94.3	80 - 120	
208 Pb	165	1	93.17	1.84	100	93.2	80 - 120	
232 Th	165	1	101.80	3.23	100	101.8	80 - 120	
238 U	165	1	98.21	3.87	100	98.2	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	725523	2.06	813856	89.1	30 - 120	
45 Sc	1	2850952	0.83	3365388	84.7	30 - 120	
72 Ge	1	1662309	1.28	2009611	82.7	30 - 120	
115 In	1	4223399	1.06	5142726	82.1	30 - 120	
165 Ho	1	8443683	1.45	9667228	87.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\012WASH.D\012WASH.D#
Date Acquired: Dec 28 2011 05:41 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.003 ppb	558.78	1.30	
51 V	72	1	0.015 ppb	53.49	6.50	
52 Cr	72	1	0.010 ppb	45.84	2.60	
55 Mn	72	1	0.037 ppb	19.33	1.30	
59 Co	72	1	0.007 ppb	39.22	1.30	
60 Ni	72	1	0.018 ppb	36.65	2.60	
63 Cu	72	1	0.003 ppb	129.78	2.60	
66 Zn	72	1	-0.009 ppb	101.72	13.00	
75 As	72	1	0.014 ppb	51.52	6.50	
78 Se	72	1	0.069 ppb	429.50	6.50	
95 Mo	72	1	0.707 ppb	5.19	2.60	
107 Ag	115	1	0.012 ppb	6.35	6.50	
111 Cd	115	1	0.015 ppb	19.72	1.30	
118 Sn	115	1	0.033 ppb	10.69	13.00	
121 Sb	115	1	0.024 ppb	6.37	2.60	
137 Ba	115	1	0.006 ppb	122.73	1.30	
205 Tl	165	1	0.014 ppb	7.34	1.30	
208 Pb	165	1	0.010 ppb	14.64	1.30	
232 Th	165	1	0.047 ppb	6.31	2.60	
238 U	165	1	0.019 ppb	12.97	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	821842	0.50	813856	101.0	30 - 120	
45 Sc	1	3163290	1.61	3365388	94.0	30 - 120	
72 Ge	1	1951889	1.51	2009611	97.1	30 - 120	
115 In	1	5060576	1.42	5142726	98.4	30 - 120	
165 Ho	1	9742520	0.82	9667228	100.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\013WASH.D\013WASH.D#
Date Acquired: Dec 28 2011 05:44 pm
Operator: LRD
Sample Name: ALTSe-1192700
Misc Info:
Vial Number: 2107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.003 ppb	4.08	1.30	
51 V	72	1	0.007 ppb	16.33	6.50	
52 Cr	72	1	0.006 ppb	103.63	2.60	
55 Mn	72	1	0.016 ppb	45.12	1.30	
59 Co	72	1	0.002 ppb	38.90	1.30	
60 Ni	72	1	0.000 ppb	2334.60	2.60	
63 Cu	72	1	0.010 ppb	39.58	2.60	
66 Zn	72	1	-0.008 ppb	89.46	13.00	
75 As	72	1	0.011 ppb	43.08	6.50	
78 Se	72	1	2.414 ppb	18.65	6.50	
95 Mo	72	1	0.186 ppb	1.12	2.60	
107 Ag	115	1	0.004 ppb	27.10	6.50	
111 Cd	115	1	0.009 ppb	39.79	1.30	
118 Sn	115	1	0.074 ppb	8.10	13.00	
121 Sb	115	1	0.011 ppb	36.85	2.60	
137 Ba	115	1	0.001 ppb	11.07	1.30	
205 Tl	165	1	0.005 ppb	6.06	1.30	
208 Pb	165	1	0.002 ppb	36.06	1.30	
232 Th	165	1	0.014 ppb	15.09	2.60	
238 U	165	1	0.004 ppb	11.03	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	810142	1.31	813856	99.5	30 - 120	
45 Sc	1	3292448	0.82	3365388	97.8	30 - 120	
72 Ge	1	1973826	0.30	2009611	98.2	30 - 120	
115 In	1	5178893	1.46	5142726	100.7	30 - 120	
165 Ho	1	9680523	1.58	9667228	100.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Linear Dynamic Range Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\014_LR.D\014_LR.D#
Date Acquired: Dec 28 2011 05:47 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: LRA-1192703
Misc Info:
Vial Number: 2110
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: LR
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	1028.00 ppb	3.72	1000	102.8	90 - 110	
51 V	72	1	966.90 ppb	3.48	1000	96.7	90 - 110	
52 Cr	72	1	973.90 ppb	4.27	1000	97.4	90 - 110	
55 Mn	72	1	985.20 ppb	3.50	1000	98.5	90 - 110	
59 Co	72	1	982.00 ppb	3.88	1000	98.2	90 - 110	
60 Ni	72	1	974.90 ppb	3.03	1000	97.5	90 - 110	
63 Cu	72	1	968.00 ppb	1.86	1000	96.8	90 - 110	
66 Zn	72	1	1005.00 ppb	2.74	1000	100.5	90 - 110	
75 As	72	1	1032.00 ppb	3.30	1000	103.2	90 - 110	
78 Se	72	1	1004.00 ppb	3.16	1000	100.4	90 - 110	
95 Mo	72	1	992.00 ppb	3.25	1000	99.2	90 - 110	
107 Ag	115	1	985.50 ppb	1.87	1000	98.6	90 - 110	
111 Cd	115	1	1008.00 ppb	2.01	1000	100.8	90 - 110	
118 Sn	115	1	990.10 ppb	2.50	1000	99.0	90 - 110	
121 Sb	115	1	983.00 ppb	1.34	1000	98.3	90 - 110	
137 Ba	115	1	1024.00 ppb	2.38	1000	102.4	90 - 110	
205 Tl	165	1	1002.00 ppb	0.71	1000	100.2	90 - 110	
208 Pb	165	1	988.10 ppb	2.16	1000	98.8	90 - 110	
232 Th	165	1	1041.00 ppb	2.91	1000	104.1	90 - 110	
238 U	165	1	1017.00 ppb	3.19	1000	101.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	775331	2.05	813856	95.3	30 - 120	
45 Sc	1	3174120	0.81	3365388	94.3	30 - 120	
72 Ge	1	1950955	2.27	2009611	97.1	30 - 120	
115 In	1	5019048	0.95	5142726	97.6	30 - 120	
165 Ho	1	9600903	2.08	9667228	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\015WASH.D\015WASH.D#
Date Acquired: Dec 28 2011 05:50 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.102 ppb	39.13	1.30	
51 V	72	1	0.068 ppb	18.78	6.50	
52 Cr	72	1	0.083 ppb	25.06	2.60	
55 Mn	72	1	0.090 ppb	21.42	1.30	
59 Co	72	1	0.082 ppb	22.57	1.30	
60 Ni	72	1	0.083 ppb	31.94	2.60	
63 Cu	72	1	0.088 ppb	27.69	2.60	
66 Zn	72	1	0.069 ppb	38.90	13.00	
75 As	72	1	0.103 ppb	22.74	6.50	
78 Se	72	1	0.173 ppb	129.16	6.50	
95 Mo	72	1	0.373 ppb	9.71	2.60	
107 Ag	115	1	0.101 ppb	9.54	6.50	
111 Cd	115	1	0.088 ppb	32.29	1.30	
118 Sn	115	1	0.516 ppb	9.18	13.00	
121 Sb	115	1	0.197 ppb	1.39	2.60	
137 Ba	115	1	0.075 ppb	19.55	1.30	
205 Tl	165	1	0.198 ppb	15.50	1.30	
208 Pb	165	1	0.083 ppb	16.55	1.30	
232 Th	165	1	0.339 ppb	10.72	2.60	
238 U	165	1	0.178 ppb	10.04	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	781911	1.25	813856	96.1	30 - 120	
45 Sc	1	3266626	1.16	3365388	97.1	30 - 120	
72 Ge	1	1962426	1.95	2009611	97.7	30 - 120	
115 In	1	5170434	0.35	5142726	100.5	30 - 120	
165 Ho	1	9777937	1.46	9667228	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\016WASH.D\016WASH.D#
Date Acquired: Dec 28 2011 05:52 pm
Operator: LRD
Sample Name: ALTSe-1192700
Misc Info:
Vial Number: 2107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.035 ppb	50.81	1.30	
51 V	72	1	0.017 ppb	24.65	6.50	
52 Cr	72	1	0.017 ppb	42.06	2.60	
55 Mn	72	1	0.029 ppb	35.55	1.30	
59 Co	72	1	0.026 ppb	2.64	1.30	
60 Ni	72	1	0.023 ppb	12.14	2.60	
63 Cu	72	1	0.025 ppb	25.18	2.60	
66 Zn	72	1	0.015 ppb	12.99	13.00	
75 As	72	1	0.047 ppb	22.65	6.50	
78 Se	72	1	2.141 ppb	15.75	6.50	
95 Mo	72	1	0.112 ppb	15.79	2.60	
107 Ag	115	1	0.032 ppb	4.08	6.50	
111 Cd	115	1	0.024 ppb	39.41	1.30	
118 Sn	115	1	0.222 ppb	15.43	13.00	
121 Sb	115	1	0.064 ppb	12.81	2.60	
137 Ba	115	1	0.020 ppb	21.80	1.30	
205 Tl	165	1	0.056 ppb	5.16	1.30	
208 Pb	165	1	0.028 ppb	3.52	1.30	
232 Th	165	1	0.077 ppb	2.01	2.60	
238 U	165	1	0.040 ppb	6.48	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	780615	1.08	813856	95.9	30 - 120	
45 Sc	1	3353316	1.33	3365388	99.6	30 - 120	
72 Ge	1	2004269	1.47	2009611	99.7	30 - 120	
115 In	1	5204514	1.58	5142726	101.2	30 - 120	
165 Ho	1	9729357	1.52	9667228	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\017_CCV.D\017_CCV.D#
Date Acquired: Dec 28 2011 05:55 pm
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	52.22	ppb	4.49	50	104.4	90 - 110	
51 V	72	1	52.45	ppb	2.09	50	104.9	90 - 110	
52 Cr	72	1	52.45	ppb	3.21	50	104.9	90 - 110	
55 Mn	72	1	54.25	ppb	2.34	50	108.5	90 - 110	
59 Co	72	1	52.85	ppb	3.41	50	105.7	90 - 110	
60 Ni	72	1	51.71	ppb	2.76	50	103.4	90 - 110	
63 Cu	72	1	52.51	ppb	3.26	50	105.0	90 - 110	
66 Zn	72	1	51.62	ppb	2.36	50	103.2	90 - 110	
75 As	72	1	51.65	ppb	1.86	50	103.3	90 - 110	
78 Se	72	1	52.80	ppb	4.97	50	105.6	90 - 110	
95 Mo	72	1	51.65	ppb	3.01	50	103.3	90 - 110	
107 Ag	115	1	51.37	ppb	0.34	50	102.7	90 - 110	
111 Cd	115	1	50.88	ppb	0.87	50	101.8	90 - 110	
118 Sn	115	1	50.16	ppb	2.20	50	100.3	90 - 110	
121 Sb	115	1	50.15	ppb	1.43	50	100.3	90 - 110	
137 Ba	115	1	51.68	ppb	1.42	50	103.4	90 - 110	
205 Tl	165	1	51.80	ppb	1.97	50	103.6	90 - 110	
208 Pb	165	1	51.19	ppb	2.45	50	102.4	90 - 110	
232 Th	165	1	51.54	ppb	4.24	50	103.1	90 - 110	
238 U	165	1	51.29	ppb	3.87	50	102.6	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	788729	1.31	813856	96.9	30 - 120	
45 Sc	1	3323611	2.81	3365388	98.8	30 - 120	
72 Ge	1	1999875	0.50	2009611	99.5	30 - 120	
115 In	1	5233883	0.72	5142726	101.8	30 - 120	
165 Ho	1	9849679	1.75	9667228	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\018_CCB.D\018_CCB.D#
Date Acquired: Dec 28 2011 05:58 pm
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.010	ppb	116.38	1.00	
51	V	72	1	0.000	ppb	3476.40	1.00	
52	Cr	72	1	0.017	ppb	26.62	1.00	
55	Mn	72	1	0.016	ppb	29.51	1.00	
59	Co	72	1	0.009	ppb	29.01	1.00	
60	Ni	72	1	0.011	ppb	39.39	1.00	
63	Cu	72	1	0.009	ppb	30.87	1.00	
66	Zn	72	1	-0.010	ppb	66.93	1.00	
75	As	72	1	0.017	ppb	32.72	1.00	
78	Se	72	1	-0.142	ppb	42.56	1.00	
95	Mo	72	1	0.045	ppb	31.28	1.00	
107	Ag	115	1	0.014	ppb	20.17	1.00	
111	Cd	115	1	0.010	ppb	46.67	1.00	
118	Sn	115	1	0.078	ppb	19.17	1.00	
121	Sb	115	1	0.031	ppb	11.37	1.00	
137	Ba	115	1	0.006	ppb	9.72	1.00	
205	Tl	165	1	0.043	ppb	7.48	1.00	
208	Pb	165	1	0.015	ppb	9.77	1.00	
232	Th	165	1	0.084	ppb	1.58	1.00	
238	U	165	1	0.022	ppb	8.80	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	795428	1.01	813856	97.7	30 - 120	
45	Sc	1	3372209	1.75	3365388	100.2	30 - 120	
72	Ge	1	2018809	1.68	2009611	100.5	30 - 120	
115	In	1	5219150	0.15	5142726	101.5	30 - 120	
165	Ho	1	9824939	0.68	9667228	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\019WASH.D\019WASH.D#
Date Acquired: Dec 28 2011 06:01 pm
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.061 ppb	6.96	1.30	
51 V	72	1	5.213 ppb	1.77	6.50	
52 Cr	72	1	2.063 ppb	3.03	2.60	
55 Mn	72	1	1.075 ppb	1.90	1.30	
59 Co	72	1	1.024 ppb	2.82	1.30	
60 Ni	72	1	2.028 ppb	2.03	2.60	
63 Cu	72	1	2.018 ppb	0.34	2.60	
66 Zn	72	1	10.240 ppb	0.94	13.00	
75 As	72	1	5.098 ppb	0.56	6.50	
78 Se	72	1	5.194 ppb	8.50	6.50	
95 Mo	72	1	2.079 ppb	1.73	2.60	
107 Ag	115	1	5.215 ppb	2.54	6.50	
111 Cd	115	1	1.075 ppb	3.88	1.30	
118 Sn	115	1	10.100 ppb	3.89	13.00	
121 Sb	115	1	1.985 ppb	1.93	2.60	
137 Ba	115	1	1.033 ppb	2.75	1.30	
205 Tl	165	1	1.043 ppb	1.85	1.30	
208 Pb	165	1	1.019 ppb	1.91	1.30	
232 Th	165	1	2.039 ppb	5.58	2.60	
238 U	165	1	1.009 ppb	3.45	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	801818	0.64	813856	98.5	30 - 120	
45 Sc	1	3400565	1.96	3365388	101.0	30 - 120	
72 Ge	1	2037561	1.79	2009611	101.4	30 - 120	
115 In	1	5279657	2.37	5142726	102.7	30 - 120	
165 Ho	1	9870574	0.37	9667228	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\020_BLK.D\020_BLK.D#
Date Acquired: Dec 28 2011 06:04 pm
Operator: LRD
Sample Name: mb 280-100947/1-a
Misc Info: BLANK 100947 SOIL/DoD4/6020A
Vial Number: 2201
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.007 ppb	87.02	2.00	
51 V	72	1	0.003 ppb	438.73	2.00	
52 Cr	72	1	0.039 ppb	14.39	2.00	
55 Mn	72	1	0.100 ppb	11.40	2.00	
59 Co	72	1	0.005 ppb	29.88	2.00	
60 Ni	72	1	0.027 ppb	24.28	2.00	
63 Cu	72	1	0.193 ppb	5.65	2.00	
66 Zn	72	1	0.292 ppb	4.45	2.00	
75 As	72	1	0.013 ppb	41.98	2.00	
78 Se	72	1	0.158 ppb	69.56	2.00	
95 Mo	72	1	0.029 ppb	29.11	2.00	
107 Ag	115	1	0.009 ppb	11.45	2.00	
111 Cd	115	1	0.004 ppb	211.28	2.00	
118 Sn	115	1	0.086 ppb	6.98	2.00	
121 Sb	115	1	0.017 ppb	4.77	2.00	
137 Ba	115	1	0.097 ppb	8.37	2.00	
205 Tl	165	1	0.022 ppb	12.75	2.00	
208 Pb	165	1	0.155 ppb	2.37	2.00	
232 Th	165	1	0.033 ppb	10.60	2.00	
238 U	165	1	0.008 ppb	15.22	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	785787	1.12	813856	96.6	30 - 120	
45 Sc	1	3375014	2.40	3365388	100.3	30 - 120	
72 Ge	1	2006524	1.61	2009611	99.8	30 - 120	
115 In	1	5175873	1.75	5142726	100.6	30 - 120	
165 Ho	1	9784997	0.18	9667228	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\021_LCS.D\021_LCS.D#
Date Acquired: Dec 28 2011 06:07 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-100947/2-a
Misc Info: LCS
Vial Number: 2202
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	40.74	3.81	40	101.9	80 - 120	
51 V	72	1	42.47	1.45	40	106.2	80 - 120	
52 Cr	72	1	42.50	1.08	40	106.3	80 - 120	
55 Mn	72	1	42.33	3.69	40	105.8	80 - 120	
59 Co	72	1	42.24	1.68	40	105.6	80 - 120	
60 Ni	72	1	41.18	0.42	40	103.0	80 - 120	
63 Cu	72	1	41.23	2.86	40	103.1	80 - 120	
66 Zn	72	1	39.98	1.37	40	100.0	80 - 120	
75 As	72	1	40.59	0.63	40	101.5	80 - 120	
78 Se	72	1	40.73	2.49	40	101.8	80 - 120	
95 Mo	72	1	40.64	1.78	40	101.6	80 - 120	
107 Ag	115	1	43.06	1.62	40	107.7	80 - 120	
111 Cd	115	1	40.68	2.30	40	101.7	80 - 120	
118 Sn	115	1	40.67	2.76	40	101.7	80 - 120	
121 Sb	115	1	39.32	1.76	40	98.3	80 - 120	
137 Ba	115	1	40.85	1.27	40	102.1	80 - 120	
205 Tl	165	1	41.09	2.20	40	102.7	80 - 120	
208 Pb	165	1	40.93	1.17	40	102.3	80 - 120	
232 Th	165	1	40.47	3.34	40	101.2	80 - 120	
238 U	165	1	41.14	2.25	40	102.9	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	798056	1.63	813856	98.1	30 - 120	
45 Sc	1	3330836	1.27	3365388	99.0	30 - 120	
72 Ge	1	2010731	2.18	2009611	100.1	30 - 120	
115 In	1	5202380	0.81	5142726	101.2	30 - 120	
165 Ho	1	9819028	2.23	9667228	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\022AREF.D\022AREF.D#
Date Acquired: Dec 28 2011 06:10 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-41-g
Misc Info: 20X
Vial Number: 2203
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: AllRef
Dilution Factor: 20.00
Autodil Factor: Undiluted
Final Dil Factor: 20.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.00	0.00	ppb	261760.00	3600	
51 V	72	1	4.98	0.25	ppb	1.93	3600	
52 Cr	72	1	10.45	0.52	ppb	3.47	3600	
55 Mn	72	1	16.68	0.83	ppb	7.03	18000	
59 Co	72	1	0.87	0.04	ppb	1.34	3600	
60 Ni	72	1	4.22	0.21	ppb	5.84	3600	
63 Cu	72	1	23.80	1.19	ppb	2.45	3600	
66 Zn	72	1	2,590.00	129.50	ppb	2.46	3600	
75 As	72	1	1.57	0.08	ppb	2.09	3600	
78 Se	72	1	2.39	0.12	ppb	112.73	3600	
95 Mo	72	1	0.59	0.03	ppb	9.61	3600	
107 Ag	115	1	0.26	0.01	ppb	15.08	3600	
111 Cd	115	1	0.47	0.02	ppb	28.59	3600	
118 Sn	115	1	3.16	0.16	ppb	7.82	3600	
121 Sb	115	1	1.08	0.05	ppb	4.92	3600	
137 Ba	115	1	9.53	0.48	ppb	1.93	3600	
205 Tl	165	1	2.51	0.13	ppb	7.74	3600	
208 Pb	165	1	41.36	2.07	ppb	3.74	3600	
232 Th	165	1	2.13	0.11	ppb	5.47	1000	
238 U	165	1	0.49	0.02	ppb	3.76	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	793029	0.94	813856	97.4	30 - 120	
45 Sc	1	3358024	2.39	3365388	99.8	30 - 120	
72 Ge	1	2048063	1.31	2009611	101.9	30 - 120	
115 In	1	5194656	0.50	5142726	101.0	30 - 120	
165 Ho	1	9806554	1.54	9667228	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\023SDIL.D\023SDIL.D#
Date Acquired: Dec 28 2011 06:13 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-41-g SD@100
Misc Info: SERIAL DILUTION
Vial Number: 2204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SDIL
Dilution Factor: 20.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG122811.B\022AREF.D\022AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.01	ppb	85.51	0.00	1518356.7	90 - 110	
51 V	72	1	0.04	ppb	10.89	0.05	89.5	90 - 110	
52 Cr	72	1	0.11	ppb	3.67	0.10	100.6	90 - 110	
55 Mn	72	1	0.18	ppb	5.95	0.17	105.2	90 - 110	
59 Co	72	1	0.01	ppb	3.77	0.01	85.6	90 - 110	
60 Ni	72	1	0.05	ppb	7.03	0.04	110.1	90 - 110	
63 Cu	72	1	0.23	ppb	2.36	0.24	97.2	90 - 110	
66 Zn	72	1	25.23	ppb	1.66	25.90	97.4	90 - 110	
75 As	72	1	0.02	ppb	22.70	0.02	100.5	90 - 110	
78 Se	72	1	-0.01	ppb	2808.30	0.02	-33.6	90 - 110	
95 Mo	72	1	0.02	ppb	34.51	0.01	315.3	90 - 110	
107 Ag	115	1	0.00	ppb	37.76	0.00	155.1	90 - 110	
111 Cd	115	1	0.01	ppb	36.72	0.00	224.5	90 - 110	
118 Sn	115	1	0.07	ppb	13.56	0.03	213.7	90 - 110	
121 Sb	115	1	0.02	ppb	9.08	0.01	155.8	90 - 110	
137 Ba	115	1	0.09	ppb	12.57	0.10	91.3	90 - 110	
205 Tl	165	1	0.03	ppb	2.97	0.03	107.9	90 - 110	
208 Pb	165	1	0.41	ppb	3.75	0.41	98.8	90 - 110	
232 Th	165	1	0.03	ppb	9.38	0.02	138.9	90 - 110	
238 U	165	1	0.01	ppb	1.66	0.00	121.8	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	790879	1.60	813856	97.2	30 - 120	
45 Sc	1	3391449	1.43	3365388	100.8	30 - 120	
72 Ge	1	2040276	0.80	2009611	101.5	30 - 120	
115 In	1	5227321	1.35	5142726	101.6	30 - 120	
165 Ho	1	9787118	0.51	9667228	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\024PDS.D\024PDS.D#
Date Acquired: Dec 28 2011 06:16 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-41-g PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 2205
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: PDS
Prep Dil. Factor: 20.00
Autodil Factor: Undiluted
Final Dil Factor: 20.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	212.20	0.00	ppb	3.77	200	106.1	75 - 125	
51 V	72	1	205.00	0.25	ppb	3.42	200	102.4	75 - 125	
52 Cr	72	1	205.90	0.52	ppb	3.37	200	102.7	75 - 125	
55 Mn	72	1	211.50	0.83	ppb	4.13	200	105.3	75 - 125	
59 Co	72	1	207.10	0.04	ppb	4.23	200	103.5	75 - 125	
60 Ni	72	1	212.40	0.21	ppb	5.55	200	106.1	75 - 125	
63 Cu	72	1	206.40	1.19	ppb	4.25	200	102.6	75 - 125	
66 Zn	72	1	343.90	129.50	ppb	5.01	200	104.4	75 - 125	
75 As	72	1	212.30	0.08	ppb	4.14	200	106.1	75 - 125	
78 Se	72	1	210.40	0.12	ppb	3.41	200	105.1	75 - 125	
95 Mo	72	1	211.10	0.03	ppb	4.32	200	105.5	75 - 125	
107 Ag	115	1	54.19	0.01	ppb	1.42	50	108.4	75 - 125	
111 Cd	115	1	211.40	0.02	ppb	4.61	200	105.7	75 - 125	
118 Sn	115	1	206.90	0.16	ppb	3.78	200	103.4	75 - 125	
121 Sb	115	1	202.90	0.05	ppb	2.95	200	101.4	75 - 125	
137 Ba	115	1	215.10	0.48	ppb	3.03	200	107.3	75 - 125	
205 Tl	165	1	204.50	0.13	ppb	2.46	200	102.2	75 - 125	
208 Pb	165	1	205.40	2.07	ppb	3.87	200	101.6	75 - 125	
232 Th	165	1	0.11	0.11	ppb	6.41	200	0.1	75 - 125	
238 U	165	1	199.40	0.02	ppb	5.76	200	99.7	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	790307	2.21	813856	97.1	30 - 120	
45 Sc	1	3366645	1.50	3365388	100.0	30 - 120	
72 Ge	1	1995257	1.95	2009611	99.3	30 - 120	
115 In	1	5234405	0.92	5142726	101.8	30 - 120	
165 Ho	1	9784759	1.44	9667228	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\025_MS.D\025_MS.D#
Date Acquired: Dec 28 2011 06:18 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-41-h ms
Misc Info: MATRIX SPIKE
Vial Number: 2206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MS
Prep Dil. Factor: 20.00
Autodil Factor: Undiluted
Final Dil Factor: 20.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	2.04	0.00	ppb	6.93	40	5.1	50 - 150	
51 V	72	1	2.46	0.25	ppb	3.78	40	6.1	50 - 150	
52 Cr	72	1	2.67	0.52	ppb	3.96	40	6.6	50 - 150	
55 Mn	72	1	3.84	0.83	ppb	2.22	40	9.4	50 - 150	
59 Co	72	1	2.08	0.04	ppb	1.80	40	5.2	50 - 150	
60 Ni	72	1	2.31	0.21	ppb	1.93	40	5.7	50 - 150	
63 Cu	72	1	3.44	1.19	ppb	3.58	40	8.3	50 - 150	
66 Zn	72	1	401.30	129.50	ppb	2.24	40	236.8	50 - 150	
75 As	72	1	2.14	0.08	ppb	1.33	40	5.3	50 - 150	
78 Se	72	1	2.10	0.12	ppb	6.89	40	5.2	50 - 150	
95 Mo	72	1	2.03	0.03	ppb	3.28	40	5.1	50 - 150	
107 Ag	115	1	1.37	0.01	ppb	2.92	40	3.4	50 - 150	
111 Cd	115	1	2.05	0.02	ppb	1.77	40	5.1	50 - 150	
118 Sn	115	1	1.98	0.16	ppb	2.94	40	4.9	50 - 150	
121 Sb	115	1	1.09	0.05	ppb	0.77	40	2.7	50 - 150	
137 Ba	115	1	3.30	0.48	ppb	3.58	40	8.2	50 - 150	
205 Tl	165	1	2.04	0.13	ppb	3.20	40	5.1	50 - 150	
208 Pb	165	1	3.61	2.07	ppb	1.57	40	8.6	50 - 150	
232 Th	165	1	1.97	0.11	ppb	4.04	40	4.9	50 - 150	
238 U	165	1	2.10	0.02	ppb	3.23	40	5.2	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	771415	0.89	813856	94.8	30 - 120	
45 Sc	1	3381239	2.20	3365388	100.5	30 - 120	
72 Ge	1	2016142	1.81	2009611	100.3	30 - 120	
115 In	1	5192036	2.46	5142726	101.0	30 - 120	
165 Ho	1	9671955	0.65	9667228	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\026_MSD.D\026_MSD.D#
Date Acquired: Dec 28 2011 06:21 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-41-i msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 2207
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MSD
Dilution Factor: 20.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\025_MS.D\025_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	2.08	ppb	4.30	2.04	1.99	20	
51 V	72	1	2.32	ppb	2.27	2.46	5.99	20	
52 Cr	72	1	2.60	ppb	1.41	2.67	2.58	20	
55 Mn	72	1	3.63	ppb	1.87	3.84	5.41	20	
59 Co	72	1	2.00	ppb	1.95	2.08	3.78	20	
60 Ni	72	1	2.22	ppb	2.05	2.31	4.02	20	
63 Cu	72	1	3.26	ppb	2.07	3.44	5.44	20	
66 Zn	72	1	362.30	ppb	3.24	401.30	10.21	20	
75 As	72	1	2.06	ppb	1.88	2.14	4.04	20	
78 Se	72	1	1.95	ppb	4.67	2.10	7.12	20	
95 Mo	72	1	1.93	ppb	2.19	2.03	5.20	20	
107 Ag	115	1	1.27	ppb	1.44	1.37	7.28	20	
111 Cd	115	1	2.04	ppb	3.77	2.05	0.64	20	
118 Sn	115	1	1.84	ppb	5.72	1.98	7.12	20	
121 Sb	115	1	0.98	ppb	1.59	1.09	10.88	20	
137 Ba	115	1	3.50	ppb	1.36	3.30	5.94	20	
205 Tl	165	1	1.96	ppb	2.53	2.04	3.90	20	
208 Pb	165	1	3.43	ppb	1.96	3.61	5.06	20	
232 Th	165	1	1.98	ppb	5.62	1.97	0.10	20	
238 U	165	1	2.03	ppb	3.40	2.10	3.25	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	789331	0.65	813856	97.0	30 - 120	
45 Sc	1	3347679	1.61	3365388	99.5	30 - 120	
72 Ge	1	2059634	0.36	2009611	102.5	30 - 120	
115 In	1	5252795	1.48	5142726	102.1	30 - 120	
165 Ho	1	9738984	0.96	9667228	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\027SMPL.D\027SMPL.D#
Date Acquired: Dec 28 2011 06:24 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-42-c
Misc Info:
Vial Number: 2208
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	1.14	1.14	ppb	3.11	3600	
51 V	72	1	43.48	43.48	ppb	4.19	3600	
52 Cr	72	1	34.50	34.50	ppb	5.39	3600	
55 Mn	72	1	111.60	111.60	ppb	3.73	18000	
59 Co	72	1	5.89	5.89	ppb	2.05	3600	
60 Ni	72	1	17.47	17.47	ppb	1.36	3600	
63 Cu	72	1	33.37	33.37	ppb	0.33	3600	
66 Zn	72	1	63.82	63.82	ppb	1.64	3600	
75 As	72	1	10.00	10.00	ppb	1.65	3600	
78 Se	72	1	3.00	3.00	ppb	11.39	3600	
95 Mo	72	1	1.28	1.28	ppb	5.12	3600	
107 Ag	115	1	0.09	0.09	ppb	4.00	3600	
111 Cd	115	1	0.37	0.37	ppb	19.08	3600	
118 Sn	115	1	0.74	0.74	ppb	2.31	3600	
121 Sb	115	1	0.03	0.03	ppb	16.44	3600	
137 Ba	115	1	47.54	47.54	ppb	1.85	3600	
205 Tl	165	1	0.36	0.36	ppb	9.03	3600	
208 Pb	165	1	20.61	20.61	ppb	2.23	3600	
232 Th	165	1	6.28	6.28	ppb	4.51	1000	
238 U	165	1	1.72	1.72	ppb	2.40	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	789139	1.61	813856	97.0	30 - 120	
45 Sc	1	3378678	1.52	3365388	100.4	30 - 120	
72 Ge	1	1956427	1.34	2009611	97.4	30 - 120	
115 In	1	4987939	2.21	5142726	97.0	30 - 120	
165 Ho	1	9702375	0.46	9667228	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\028_CCV.D\028_CCV.D#
Date Acquired: Dec 28 2011 06:27 pm
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	51.25	ppb	3.80	50	102.5	90 - 110	
51 V	72	1	53.17	ppb	3.61	50	106.3	90 - 110	
52 Cr	72	1	52.32	ppb	4.50	50	104.6	90 - 110	
55 Mn	72	1	54.23	ppb	4.63	50	108.5	90 - 110	
59 Co	72	1	53.19	ppb	3.28	50	106.4	90 - 110	
60 Ni	72	1	51.48	ppb	2.35	50	103.0	90 - 110	
63 Cu	72	1	52.61	ppb	3.22	50	105.2	90 - 110	
66 Zn	72	1	51.94	ppb	1.83	50	103.9	90 - 110	
75 As	72	1	51.80	ppb	1.74	50	103.6	90 - 110	
78 Se	72	1	52.32	ppb	2.26	50	104.6	90 - 110	
95 Mo	72	1	51.93	ppb	1.16	50	103.9	90 - 110	
107 Ag	115	1	51.97	ppb	0.68	50	103.9	90 - 110	
111 Cd	115	1	51.15	ppb	1.49	50	102.3	90 - 110	
118 Sn	115	1	50.80	ppb	2.29	50	101.6	90 - 110	
121 Sb	115	1	50.60	ppb	2.70	50	101.2	90 - 110	
137 Ba	115	1	52.42	ppb	2.96	50	104.8	90 - 110	
205 Tl	165	1	51.78	ppb	0.26	50	103.6	90 - 110	
208 Pb	165	1	51.32	ppb	1.14	50	102.6	90 - 110	
232 Th	165	1	52.07	ppb	3.76	50	104.1	90 - 110	
238 U	165	1	51.30	ppb	0.68	50	102.6	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	798525	1.02	813856	98.1	30 - 120	
45 Sc	1	3373787	2.53	3365388	100.2	30 - 120	
72 Ge	1	2028172	0.05	2009611	100.9	30 - 120	
115 In	1	5255496	0.60	5142726	102.2	30 - 120	
165 Ho	1	9864165	0.26	9667228	102.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\029_CCB.D\029_CCB.D#
Date Acquired: Dec 28 2011 06:30 pm
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.007	ppb	230.05	1.00	
51 V	72	1	0.002	ppb	424.74	1.00	
52 Cr	72	1	0.012	ppb	65.40	1.00	
55 Mn	72	1	0.007	ppb	22.16	1.00	
59 Co	72	1	0.008	ppb	8.82	1.00	
60 Ni	72	1	0.006	ppb	16.51	1.00	
63 Cu	72	1	0.004	ppb	13.41	1.00	
66 Zn	72	1	-0.010	ppb	65.18	1.00	
75 As	72	1	0.015	ppb	36.04	1.00	
78 Se	72	1	0.062	ppb	231.15	1.00	
95 Mo	72	1	0.018	ppb	25.71	1.00	
107 Ag	115	1	0.011	ppb	26.18	1.00	
111 Cd	115	1	0.006	ppb	138.91	1.00	
118 Sn	115	1	0.054	ppb	28.83	1.00	
121 Sb	115	1	0.021	ppb	3.86	1.00	
137 Ba	115	1	0.006	ppb	36.90	1.00	
205 Tl	165	1	0.031	ppb	8.64	1.00	
208 Pb	165	1	0.010	ppb	11.72	1.00	
232 Th	165	1	0.066	ppb	2.40	1.00	
238 U	165	1	0.014	ppb	2.25	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	796755	2.00	813856	97.9	30 - 120	
45 Sc	1	3403088	1.03	3365388	101.1	30 - 120	
72 Ge	1	2051549	1.06	2009611	102.1	30 - 120	
115 In	1	5268106	0.43	5142726	102.4	30 - 120	
165 Ho	1	9819272	0.35	9667228	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :Max. Number of Failures Allowed
0 :ISTD Failures
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\030WASH.D\030WASH.D#
Date Acquired: Dec 28 2011 06:33 pm
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.093 ppb	20.87	1.30	
51 V	72	1	5.084 ppb	1.20	6.50	
52 Cr	72	1	2.036 ppb	1.56	2.60	
55 Mn	72	1	1.075 ppb	1.53	1.30	
59 Co	72	1	1.018 ppb	1.76	1.30	
60 Ni	72	1	1.999 ppb	1.35	2.60	
63 Cu	72	1	2.053 ppb	0.80	2.60	
66 Zn	72	1	10.270 ppb	1.51	13.00	
75 As	72	1	5.190 ppb	0.96	6.50	
78 Se	72	1	5.984 ppb	1.66	6.50	
95 Mo	72	1	2.081 ppb	1.26	2.60	
107 Ag	115	1	5.328 ppb	1.71	6.50	
111 Cd	115	1	1.107 ppb	8.74	1.30	
118 Sn	115	1	10.290 ppb	2.29	13.00	
121 Sb	115	1	2.031 ppb	2.15	2.60	
137 Ba	115	1	1.061 ppb	4.71	1.30	
205 Tl	165	1	1.063 ppb	1.01	1.30	
208 Pb	165	1	1.030 ppb	1.71	1.30	
232 Th	165	1	2.074 ppb	4.05	2.60	
238 U	165	1	1.016 ppb	2.35	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	791330	1.47	813856	97.2	30 - 120	
45 Sc	1	3399468	0.39	3365388	101.0	30 - 120	
72 Ge	1	2052849	2.88	2009611	102.2	30 - 120	
115 In	1	5274890	1.68	5142726	102.6	30 - 120	
165 Ho	1	9810522	0.49	9667228	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\031SMPL.D\031SMPL.D#
Date Acquired: Dec 28 2011 06:36 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-43-c
Misc Info:
Vial Number: 2209
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.50	0.50	ppb	12.39	3600	
51 V	72	1	30.93	30.93	ppb	2.55	3600	
52 Cr	72	1	26.02	26.02	ppb	2.34	3600	
55 Mn	72	1	220.20	220.20	ppb	3.27	18000	
59 Co	72	1	3.49	3.49	ppb	3.03	3600	
60 Ni	72	1	10.16	10.16	ppb	2.73	3600	
63 Cu	72	1	73.69	73.69	ppb	2.32	3600	
66 Zn	72	1	223.10	223.10	ppb	2.31	3600	
75 As	72	1	7.65	7.65	ppb	1.75	3600	
78 Se	72	1	1.07	1.07	ppb	3.65	3600	
95 Mo	72	1	1.49	1.49	ppb	4.12	3600	
107 Ag	115	1	0.04	0.04	ppb	12.13	3600	
111 Cd	115	1	0.24	0.24	ppb	7.46	3600	
118 Sn	115	1	2.60	2.60	ppb	3.94	3600	
121 Sb	115	1	0.55	0.55	ppb	1.91	3600	
137 Ba	115	1	45.45	45.45	ppb	1.09	3600	
205 Tl	165	1	0.18	0.18	ppb	8.88	3600	
208 Pb	165	1	491.40	491.40	ppb	1.20	3600	
232 Th	165	1	3.60	3.60	ppb	3.30	1000	
238 U	165	1	0.91	0.91	ppb	1.96	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	780403	1.10	813856	95.9	30 - 120	
45 Sc	1	3363148	1.31	3365388	99.9	30 - 120	
72 Ge	1	2006758	1.33	2009611	99.9	30 - 120	
115 In	1	5093194	0.59	5142726	99.0	30 - 120	
165 Ho	1	9672369	0.58	9667228	100.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\032SMPL.D\032SMPL.D#
Date Acquired: Dec 28 2011 06:39 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-44-c
Misc Info:
Vial Number: 2210
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.58	0.58	ppb	22.68	3600	
51 V	72	1	22.92	22.92	ppb	2.90	3600	
52 Cr	72	1	18.99	18.99	ppb	2.81	3600	
55 Mn	72	1	35.58	35.58	ppb	1.51	18000	
59 Co	72	1	2.01	2.01	ppb	2.57	3600	
60 Ni	72	1	6.07	6.07	ppb	1.36	3600	
63 Cu	72	1	45.32	45.32	ppb	2.95	3600	
66 Zn	72	1	196.40	196.40	ppb	1.20	3600	
75 As	72	1	1.80	1.80	ppb	0.17	3600	
78 Se	72	1	0.50	0.50	ppb	32.44	3600	
95 Mo	72	1	0.21	0.21	ppb	3.55	3600	
107 Ag	115	1	0.04	0.04	ppb	7.71	3600	
111 Cd	115	1	0.15	0.15	ppb	39.76	3600	
118 Sn	115	1	0.19	0.19	ppb	7.38	3600	
121 Sb	115	1	0.04	0.04	ppb	10.52	3600	
137 Ba	115	1	127.30	127.30	ppb	4.00	3600	
205 Tl	165	1	0.24	0.24	ppb	2.56	3600	
208 Pb	165	1	85.50	85.50	ppb	1.28	3600	
232 Th	165	1	5.16	5.16	ppb	2.97	1000	
238 U	165	1	0.68	0.68	ppb	1.52	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	780372	0.28	813856	95.9	30 - 120	
45 Sc	1	3438838	0.60	3365388	102.2	30 - 120	
72 Ge	1	2007592	1.84	2009611	99.9	30 - 120	
115 In	1	5220114	1.37	5142726	101.5	30 - 120	
165 Ho	1	9838205	1.44	9667228	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\033SMPL.D\033SMPL.D#
Date Acquired: Dec 28 2011 06:42 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-48-c
Misc Info:
Vial Number: 2211
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.11	0.11	ppb	17.62	3600	
51 V	72	1	3.11	3.11	ppb	1.33	3600	
52 Cr	72	1	4.05	4.05	ppb	2.01	3600	
55 Mn	72	1	11.56	11.56	ppb	1.26	18000	
59 Co	72	1	0.39	0.39	ppb	2.38	3600	
60 Ni	72	1	1.83	1.83	ppb	1.63	3600	
63 Cu	72	1	18.96	18.96	ppb	1.40	3600	
66 Zn	72	1	595.50	595.50	ppb	1.46	3600	
75 As	72	1	0.68	0.68	ppb	3.91	3600	
78 Se	72	1	0.21	0.21	ppb	138.28	3600	
95 Mo	72	1	0.22	0.22	ppb	9.97	3600	
107 Ag	115	1	0.03	0.03	ppb	10.68	3600	
111 Cd	115	1	0.26	0.26	ppb	5.56	3600	
118 Sn	115	1	0.48	0.48	ppb	5.48	3600	
121 Sb	115	1	1.74	1.74	ppb	2.35	3600	
137 Ba	115	1	5.85	5.85	ppb	0.74	3600	
205 Tl	165	1	0.03	0.03	ppb	2.85	3600	
208 Pb	165	1	67.73	67.73	ppb	0.66	3600	
232 Th	165	1	0.70	0.70	ppb	1.97	1000	
238 U	165	1	0.28	0.28	ppb	3.29	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	783192	0.86	813856	96.2	30 - 120	
45 Sc	1	3411094	1.38	3365388	101.4	30 - 120	
72 Ge	1	2034392	0.86	2009611	101.2	30 - 120	
115 In	1	5192157	0.78	5142726	101.0	30 - 120	
165 Ho	1	9952672	0.45	9667228	103.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\034SMPL.D\034SMPL.D#
Date Acquired: Dec 28 2011 06:44 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-50-b
Misc Info:
Vial Number: 2212
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.34	0.34	ppb	23.76	3600	
51 V	72	1	18.12	18.12	ppb	3.41	3600	
52 Cr	72	1	8.92	8.92	ppb	2.81	3600	
55 Mn	72	1	30.37	30.37	ppb	2.19	18000	
59 Co	72	1	1.77	1.77	ppb	2.23	3600	
60 Ni	72	1	4.63	4.63	ppb	1.15	3600	
63 Cu	72	1	4.04	4.04	ppb	1.18	3600	
66 Zn	72	1	15.78	15.78	ppb	2.27	3600	
75 As	72	1	5.64	5.64	ppb	2.40	3600	
78 Se	72	1	0.77	0.77	ppb	11.61	3600	
95 Mo	72	1	2.76	2.76	ppb	1.56	3600	
107 Ag	115	1	0.03	0.03	ppb	6.73	3600	
111 Cd	115	1	0.11	0.11	ppb	10.23	3600	
118 Sn	115	1	0.38	0.38	ppb	8.82	3600	
121 Sb	115	1	0.03	0.03	ppb	9.26	3600	
137 Ba	115	1	12.73	12.73	ppb	1.11	3600	
205 Tl	165	1	0.08	0.08	ppb	1.19	3600	
208 Pb	165	1	8.83	8.83	ppb	1.07	3600	
232 Th	165	1	1.58	1.58	ppb	3.11	1000	
238 U	165	1	1.74	1.74	ppb	2.36	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	778509	2.41	813856	95.7	30 - 120	
45 Sc	1	3298463	0.69	3365388	98.0	30 - 120	
72 Ge	1	1969702	1.59	2009611	98.0	30 - 120	
115 In	1	5075145	0.91	5142726	98.7	30 - 120	
165 Ho	1	9733148	1.46	9667228	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\035SMPL.D\035SMPL.D#
Date Acquired: Dec 28 2011 06:47 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-51-b
Misc Info:
Vial Number: 2301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.24	0.24	ppb	25.42	3600	
51 V	72	1	10.09	10.09	ppb	3.60	3600	
52 Cr	72	1	13.34	13.34	ppb	3.95	3600	
55 Mn	72	1	102.10	102.10	ppb	3.97	18000	
59 Co	72	1	2.07	2.07	ppb	1.76	3600	
60 Ni	72	1	4.46	4.46	ppb	1.87	3600	
63 Cu	72	1	3.76	3.76	ppb	3.53	3600	
66 Zn	72	1	33.77	33.77	ppb	3.42	3600	
75 As	72	1	6.09	6.09	ppb	2.68	3600	
78 Se	72	1	0.67	0.67	ppb	39.39	3600	
95 Mo	72	1	0.26	0.26	ppb	9.14	3600	
107 Ag	115	1	0.03	0.03	ppb	4.23	3600	
111 Cd	115	1	0.09	0.09	ppb	19.04	3600	
118 Sn	115	1	0.16	0.16	ppb	9.48	3600	
121 Sb	115	1	0.02	0.02	ppb	8.34	3600	
137 Ba	115	1	25.86	25.86	ppb	1.63	3600	
205 Tl	165	1	0.07	0.07	ppb	3.85	3600	
208 Pb	165	1	13.00	13.00	ppb	0.82	3600	
232 Th	165	1	2.83	2.83	ppb	2.94	1000	
238 U	165	1	0.81	0.81	ppb	3.40	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	787151	2.22	813856	96.7	30 - 120	
45 Sc	1	3377537	1.40	3365388	100.4	30 - 120	
72 Ge	1	2022909	1.74	2009611	100.7	30 - 120	
115 In	1	5219439	0.99	5142726	101.5	30 - 120	
165 Ho	1	9909157	0.94	9667228	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\036SMPL.D\036SMPL.D#
Date Acquired: Dec 28 2011 06:50 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-52-b
Misc Info:
Vial Number: 2302
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.10	0.10	ppb	40.12	3600	
51 V	72	1	10.12	10.12	ppb	1.45	3600	
52 Cr	72	1	7.32	7.32	ppb	2.16	3600	
55 Mn	72	1	7.51	7.51	ppb	1.29	18000	
59 Co	72	1	0.47	0.47	ppb	1.78	3600	
60 Ni	72	1	1.94	1.94	ppb	1.25	3600	
63 Cu	72	1	7.20	7.20	ppb	0.53	3600	
66 Zn	72	1	6.01	6.01	ppb	2.75	3600	
75 As	72	1	3.70	3.70	ppb	1.41	3600	
78 Se	72	1	0.24	0.24	ppb	118.52	3600	
95 Mo	72	1	1.79	1.79	ppb	2.10	3600	
107 Ag	115	1	0.04	0.04	ppb	12.04	3600	
111 Cd	115	1	0.01	0.01	ppb	69.51	3600	
118 Sn	115	1	0.32	0.32	ppb	5.26	3600	
121 Sb	115	1	0.03	0.03	ppb	6.32	3600	
137 Ba	115	1	6.36	6.36	ppb	2.69	3600	
205 Tl	165	1	0.04	0.04	ppb	4.69	3600	
208 Pb	165	1	6.91	6.91	ppb	0.81	3600	
232 Th	165	1	1.11	1.11	ppb	3.64	1000	
238 U	165	1	1.80	1.80	ppb	3.32	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	785666	2.81	813856	96.5	30 - 120	
45 Sc	1	3344883	0.75	3365388	99.4	30 - 120	
72 Ge	1	1980422	0.96	2009611	98.5	30 - 120	
115 In	1	5039241	1.01	5142726	98.0	30 - 120	
165 Ho	1	9737545	0.76	9667228	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\037SMPL.D\037SMPL.D#
Date Acquired: Dec 28 2011 06:53 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-53-c
Misc Info:
Vial Number: 2303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.28	0.28	ppb	22.08	3600	
51 V	72	1	16.23	16.23	ppb	2.96	3600	
52 Cr	72	1	12.09	12.09	ppb	4.08	3600	
55 Mn	72	1	57.02	57.02	ppb	2.79	18000	
59 Co	72	1	2.89	2.89	ppb	2.91	3600	
60 Ni	72	1	8.30	8.30	ppb	2.35	3600	
63 Cu	72	1	8.65	8.65	ppb	2.56	3600	
66 Zn	72	1	81.29	81.29	ppb	2.23	3600	
75 As	72	1	3.25	3.25	ppb	4.98	3600	
78 Se	72	1	0.45	0.45	ppb	22.25	3600	
95 Mo	72	1	0.98	0.98	ppb	7.10	3600	
107 Ag	115	1	0.01	0.01	ppb	14.29	3600	
111 Cd	115	1	0.05	0.05	ppb	25.29	3600	
118 Sn	115	1	0.14	0.14	ppb	5.78	3600	
121 Sb	115	1	0.01	0.01	ppb	6.81	3600	
137 Ba	115	1	25.53	25.53	ppb	2.14	3600	
205 Tl	165	1	0.06	0.06	ppb	3.53	3600	
208 Pb	165	1	4.93	4.93	ppb	4.42	3600	
232 Th	165	1	2.80	2.80	ppb	5.68	1000	
238 U	165	1	0.72	0.72	ppb	5.52	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	784574	1.65	813856	96.4	30 - 120	
45 Sc	1	3421097	1.85	3365388	101.7	30 - 120	
72 Ge	1	2031122	2.03	2009611	101.1	30 - 120	
115 In	1	5249214	1.30	5142726	102.1	30 - 120	
165 Ho	1	9942839	0.85	9667228	102.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\038_CCV.D\038_CCV.D#
Date Acquired: Dec 28 2011 06:56 pm
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	52.92	ppb	5.09	50	105.8	90 - 110	
51 V	72	1	53.92	ppb	4.74	50	107.8	90 - 110	
52 Cr	72	1	53.71	ppb	5.02	50	107.4	90 - 110	
55 Mn	72	1	54.77	ppb	5.25	50	109.5	90 - 110	
59 Co	72	1	53.93	ppb	4.94	50	107.9	90 - 110	
60 Ni	72	1	52.10	ppb	3.56	50	104.2	90 - 110	
63 Cu	72	1	53.49	ppb	4.45	50	107.0	90 - 110	
66 Zn	72	1	52.13	ppb	2.92	50	104.3	90 - 110	
75 As	72	1	52.25	ppb	3.56	50	104.5	90 - 110	
78 Se	72	1	54.17	ppb	2.12	50	108.3	90 - 110	
95 Mo	72	1	52.23	ppb	4.21	50	104.5	90 - 110	
107 Ag	115	1	52.75	ppb	0.62	50	105.5	90 - 110	
111 Cd	115	1	52.11	ppb	1.25	50	104.2	90 - 110	
118 Sn	115	1	51.22	ppb	1.73	50	102.4	90 - 110	
121 Sb	115	1	51.26	ppb	1.45	50	102.5	90 - 110	
137 Ba	115	1	53.27	ppb	2.90	50	106.5	90 - 110	
205 Tl	165	1	52.74	ppb	1.34	50	105.5	90 - 110	
208 Pb	165	1	51.51	ppb	2.89	50	103.0	90 - 110	
232 Th	165	1	51.46	ppb	3.95	50	102.9	90 - 110	
238 U	165	1	51.20	ppb	2.43	50	102.4	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	794052	3.15	813856	97.6	30 - 120	
45 Sc	1	3427705	0.94	3365388	101.9	30 - 120	
72 Ge	1	2061127	1.89	2009611	102.6	30 - 120	
115 In	1	5295721	0.86	5142726	103.0	30 - 120	
165 Ho	1	9961645	1.75	9667228	103.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\039_CCB.D\039_CCB.D#
Date Acquired: Dec 28 2011 06:59 pm
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	-0.003	ppb	179.66	1.00	
51 V	72	1	0.009	ppb	55.67	1.00	
52 Cr	72	1	0.010	ppb	34.93	1.00	
55 Mn	72	1	0.031	ppb	40.34	1.00	
59 Co	72	1	0.004	ppb	70.78	1.00	
60 Ni	72	1	0.008	ppb	29.53	1.00	
63 Cu	72	1	0.001	ppb	491.96	1.00	
66 Zn	72	1	-0.006	ppb	188.74	1.00	
75 As	72	1	0.019	ppb	53.42	1.00	
78 Se	72	1	-0.093	ppb	111.17	1.00	
95 Mo	72	1	0.017	ppb	47.59	1.00	
107 Ag	115	1	0.009	ppb	30.17	1.00	
111 Cd	115	1	0.003	ppb	12.76	1.00	
118 Sn	115	1	0.048	ppb	19.27	1.00	
121 Sb	115	1	0.015	ppb	10.84	1.00	
137 Ba	115	1	0.007	ppb	44.01	1.00	
205 Tl	165	1	0.026	ppb	8.03	1.00	
208 Pb	165	1	0.010	ppb	13.64	1.00	
232 Th	165	1	0.063	ppb	2.41	1.00	
238 U	165	1	0.012	ppb	0.64	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	786785	0.82	813856	96.7	30 - 120	
45 Sc	1	3379348	2.23	3365388	100.4	30 - 120	
72 Ge	1	2036314	1.73	2009611	101.3	30 - 120	
115 In	1	5293208	0.57	5142726	102.9	30 - 120	
165 Ho	1	9819494	1.24	9667228	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :Max. Number of Failures Allowed
0 :ISTD Failures
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\040WASH.D\040WASH.D#
Date Acquired: Dec 28 2011 07:02 pm
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.057 ppb	0.18	1.30	
51 V	72	1	5.207 ppb	3.33	6.50	
52 Cr	72	1	2.081 ppb	1.71	2.60	
55 Mn	72	1	1.108 ppb	1.57	1.30	
59 Co	72	1	1.023 ppb	0.41	1.30	
60 Ni	72	1	2.038 ppb	3.15	2.60	
63 Cu	72	1	2.087 ppb	3.26	2.60	
66 Zn	72	1	10.560 ppb	1.43	13.00	
75 As	72	1	5.322 ppb	3.37	6.50	
78 Se	72	1	5.471 ppb	5.85	6.50	
95 Mo	72	1	2.110 ppb	2.71	2.60	
107 Ag	115	1	5.318 ppb	1.35	6.50	
111 Cd	115	1	1.100 ppb	0.97	1.30	
118 Sn	115	1	10.390 ppb	2.41	13.00	
121 Sb	115	1	2.064 ppb	3.10	2.60	
137 Ba	115	1	1.062 ppb	1.90	1.30	
205 Tl	165	1	1.072 ppb	1.67	1.30	
208 Pb	165	1	1.030 ppb	1.47	1.30	
232 Th	165	1	2.074 ppb	2.45	2.60	
238 U	165	1	1.025 ppb	2.46	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	786080	1.62	813856	96.6	30 - 120	
45 Sc	1	3398301	1.30	3365388	101.0	30 - 120	
72 Ge	1	2043161	1.57	2009611	101.7	30 - 120	
115 In	1	5302985	1.72	5142726	103.1	30 - 120	
165 Ho	1	9826481	1.18	9667228	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\041AREF.D\041AREF.D#
Date Acquired: Dec 28 2011 07:05 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-41-g
Misc Info:
Vial Number: 2304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.14	0.14	ppb	26.43	3600	
51 V	72	1	4.52	4.52	ppb	3.50	3600	
52 Cr	72	1	5.54	5.54	ppb	3.54	3600	
55 Mn	72	1	16.69	16.69	ppb	2.68	18000	
59 Co	72	1	0.74	0.74	ppb	3.71	3600	
60 Ni	72	1	3.16	3.16	ppb	3.74	3600	
63 Cu	72	1	24.68	24.68	ppb	2.41	3600	
66 Zn	72	1	2,612.00	2612.00	ppb	3.03	3600	
75 As	72	1	1.16	1.16	ppb	5.67	3600	
78 Se	72	1	0.22	0.22	ppb	162.35	3600	
95 Mo	72	1	0.21	0.21	ppb	10.87	3600	
107 Ag	115	1	0.03	0.03	ppb	5.33	3600	
111 Cd	115	1	0.32	0.32	ppb	4.79	3600	
118 Sn	115	1	0.50	0.50	ppb	5.87	3600	
121 Sb	115	1	0.70	0.70	ppb	1.50	3600	
137 Ba	115	1	9.49	9.49	ppb	1.09	3600	
205 Tl	165	1	0.05	0.05	ppb	19.80	3600	
208 Pb	165	1	42.02	42.02	ppb	0.78	3600	
232 Th	165	1	0.88	0.88	ppb	2.48	1000	
238 U	165	1	0.26	0.26	ppb	3.90	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	796333	1.99	813856	97.8	30 - 120	
45 Sc	1	3418154	1.33	3365388	101.6	30 - 120	
72 Ge	1	2029230	0.58	2009611	101.0	30 - 120	
115 In	1	5188041	1.66	5142726	100.9	30 - 120	
165 Ho	1	9824388	0.92	9667228	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\042SDIL.D\042SDIL.D#
Date Acquired: Dec 28 2011 07:08 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-41-g SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG122811.B\041AREF.D\041AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.02	ppb	104.16	0.03	73.8	90 - 110	
51 V	72	1	0.88	ppb	2.44	0.90	96.7	90 - 110	
52 Cr	72	1	1.11	ppb	2.83	1.11	100.5	90 - 110	
55 Mn	72	1	3.31	ppb	3.00	3.34	99.1	90 - 110	
59 Co	72	1	0.15	ppb	1.49	0.15	98.2	90 - 110	
60 Ni	72	1	0.63	ppb	3.08	0.63	100.3	90 - 110	
63 Cu	72	1	4.88	ppb	2.44	4.94	98.8	90 - 110	
66 Zn	72	1	536.90	ppb	2.41	522.40	102.8	90 - 110	
75 As	72	1	0.24	ppb	12.48	0.23	101.6	90 - 110	
78 Se	72	1	-0.05	ppb	893.68	0.04	-112.8	90 - 110	
95 Mo	72	1	0.05	ppb	19.24	0.04	123.4	90 - 110	
107 Ag	115	1	0.01	ppb	27.11	0.01	127.4	90 - 110	
111 Cd	115	1	0.06	ppb	21.20	0.06	94.2	90 - 110	
118 Sn	115	1	0.11	ppb	3.22	0.10	106.5	90 - 110	
121 Sb	115	1	0.14	ppb	3.48	0.14	103.2	90 - 110	
137 Ba	115	1	1.91	ppb	3.83	1.90	100.8	90 - 110	
205 Tl	165	1	0.01	ppb	6.61	0.01	73.6	90 - 110	
208 Pb	165	1	8.37	ppb	2.40	8.40	99.6	90 - 110	
232 Th	165	1	0.18	ppb	7.12	0.18	102.4	90 - 110	
238 U	165	1	0.05	ppb	2.96	0.05	102.0	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	777063	0.88	813856	95.5	30 - 120	
45 Sc	1	3452653	1.48	3365388	102.6	30 - 120	
72 Ge	1	2056178	1.13	2009611	102.3	30 - 120	
115 In	1	5277636	1.69	5142726	102.6	30 - 120	
165 Ho	1	9912973	0.67	9667228	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\043PDS.D\043PDS.D#
Date Acquired: Dec 28 2011 07:10 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-41-g PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 2306
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	211.40	0.14	ppb	3.70	200	105.6	75 - 125	
51 V	72	1	208.40	4.52	ppb	2.48	200	101.9	75 - 125	
52 Cr	72	1	209.90	5.54	ppb	3.42	200	102.1	75 - 125	
55 Mn	72	1	225.70	16.69	ppb	2.82	200	104.2	75 - 125	
59 Co	72	1	205.20	0.74	ppb	2.44	200	102.2	75 - 125	
60 Ni	72	1	213.60	3.16	ppb	2.31	200	105.1	75 - 125	
63 Cu	72	1	226.30	24.68	ppb	2.31	200	100.7	75 - 125	
66 Zn	72	1	2735.00	2612.00	ppb	2.01	200	97.3	75 - 125	
75 As	72	1	210.90	1.16	ppb	1.24	200	104.8	75 - 125	
78 Se	72	1	209.20	0.22	ppb	1.70	200	104.5	75 - 125	
95 Mo	72	1	213.30	0.21	ppb	1.86	200	106.5	75 - 125	
107 Ag	115	1	54.00	0.03	ppb	1.60	50	107.9	75 - 125	
111 Cd	115	1	214.40	0.32	ppb	3.11	200	107.0	75 - 125	
118 Sn	115	1	208.70	0.50	ppb	2.85	200	104.1	75 - 125	
121 Sb	115	1	205.10	0.70	ppb	2.01	200	102.2	75 - 125	
137 Ba	115	1	227.00	9.49	ppb	2.12	200	108.4	75 - 125	
205 Tl	165	1	204.90	0.05	ppb	1.33	200	102.4	75 - 125	
208 Pb	165	1	240.80	42.02	ppb	2.91	200	99.5	75 - 125	
232 Th	165	1	0.91	0.88	ppb	4.06	200	0.5	75 - 125	
238 U	165	1	201.40	0.26	ppb	3.10	200	100.6	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	773820	1.87	813856	95.1	30 - 120	
45 Sc	1	3346510	2.06	3365388	99.4	30 - 120	
72 Ge	1	1984111	2.18	2009611	98.7	30 - 120	
115 In	1	5141213	1.11	5142726	100.0	30 - 120	
165 Ho	1	9775424	1.14	9667228	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\044_MS.D\044_MS.D#
Date Acquired: Dec 28 2011 07:13 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-41-h ms
Misc Info: MATRIX SPIKE
Vial Number: 2307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	42.05	0.14	ppb	2.44	40	104.7	50 - 150	
51 V	72	1	51.69	4.52	ppb	3.46	40	116.1	50 - 150	
52 Cr	72	1	50.97	5.54	ppb	2.60	40	111.9	50 - 150	
55 Mn	72	1	80.85	16.69	ppb	2.48	40	142.6	50 - 150	
59 Co	72	1	43.51	0.74	ppb	2.96	40	106.8	50 - 150	
60 Ni	72	1	44.95	3.16	ppb	2.78	40	104.1	50 - 150	
63 Cu	72	1	72.02	24.68	ppb	3.30	40	111.3	50 - 150	
66 Zn	72	1	7864.00	2612.00	ppb	1.98	40	296.5	50 - 150	
75 As	72	1	42.99	1.16	ppb	1.42	40	104.5	50 - 150	
78 Se	72	1	41.26	0.22	ppb	3.00	40	102.6	50 - 150	
95 Mo	72	1	40.73	0.21	ppb	2.62	40	101.3	50 - 150	
107 Ag	115	1	27.44	0.03	ppb	1.68	40	68.5	50 - 150	
111 Cd	115	1	42.18	0.32	ppb	2.57	40	104.6	50 - 150	
118 Sn	115	1	36.89	0.50	ppb	1.67	40	91.1	50 - 150	
121 Sb	115	1	21.48	0.70	ppb	2.08	40	52.8	50 - 150	
137 Ba	115	1	67.51	9.49	ppb	3.52	40	136.4	50 - 150	
205 Tl	165	1	41.73	0.05	ppb	2.61	40	104.2	50 - 150	
208 Pb	165	1	72.84	42.02	ppb	2.01	40	88.8	50 - 150	
232 Th	165	1	42.34	0.88	ppb	3.59	40	103.6	50 - 150	
238 U	165	1	42.77	0.26	ppb	1.99	40	106.2	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	785577	0.83	813856	96.5	30 - 120	
45 Sc	1	3350026	1.72	3365388	99.5	30 - 120	
72 Ge	1	1996552	0.30	2009611	99.4	30 - 120	
115 In	1	5141690	0.40	5142726	100.0	30 - 120	
165 Ho	1	9725472	1.49	9667228	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\045_MSD.D\045_MSD.D#
Date Acquired: Dec 28 2011 07:16 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-41-i msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 2308
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\044_MS.D\044_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	42.36	ppb	2.53	42.05	0.73	20	
51 V	72	1	51.00	ppb	2.29	51.69	1.34	20	
52 Cr	72	1	50.77	ppb	3.73	50.97	0.39	20	
55 Mn	72	1	78.14	ppb	3.24	80.85	3.41	20	
59 Co	72	1	43.15	ppb	1.51	43.51	0.83	20	
60 Ni	72	1	44.56	ppb	3.10	44.95	0.87	20	
63 Cu	72	1	67.89	ppb	4.16	72.02	5.90	20	
66 Zn	72	1	7175.00	ppb	2.78	7864.00	9.16	20	
75 As	72	1	42.83	ppb	2.07	42.99	0.37	20	
78 Se	72	1	42.83	ppb	2.16	41.26	3.73	20	
95 Mo	72	1	40.79	ppb	2.07	40.73	0.15	20	
107 Ag	115	1	25.64	ppb	1.80	27.44	6.78	20	
111 Cd	115	1	42.13	ppb	2.51	42.18	0.12	20	
118 Sn	115	1	36.40	ppb	3.14	36.89	1.34	20	
121 Sb	115	1	20.28	ppb	2.79	21.48	5.75	20	
137 Ba	115	1	73.73	ppb	2.27	67.51	8.81	20	
205 Tl	165	1	41.27	ppb	2.33	41.73	1.11	20	
208 Pb	165	1	69.69	ppb	2.01	72.84	4.42	20	
232 Th	165	1	41.78	ppb	3.85	42.34	1.33	20	
238 U	165	1	41.82	ppb	4.01	42.77	2.25	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	784700	3.02	813856	96.4	30 - 120	
45 Sc	1	3372932	1.90	3365388	100.2	30 - 120	
72 Ge	1	1991503	0.71	2009611	99.1	30 - 120	
115 In	1	5131020	0.93	5142726	99.8	30 - 120	
165 Ho	1	9746695	0.33	9667228	100.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\046_CCV.D\046_CCV.D#
Date Acquired: Dec 28 2011 07:19 pm
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	53.43	ppb	3.82	50	106.9	90 - 110	
51 V	72	1	53.88	ppb	0.26	50	107.8	90 - 110	
52 Cr	72	1	54.12	ppb	3.47	50	108.2	90 - 110	
55 Mn	72	1	55.44	ppb	0.32	50	110.9	90 - 110	Fail
59 Co	72	1	54.59	ppb	1.84	50	109.2	90 - 110	
60 Ni	72	1	52.12	ppb	1.07	50	104.2	90 - 110	
63 Cu	72	1	54.01	ppb	2.12	50	108.0	90 - 110	
66 Zn	72	1	53.54	ppb	0.68	50	107.1	90 - 110	
75 As	72	1	52.76	ppb	0.14	50	105.5	90 - 110	
78 Se	72	1	53.10	ppb	2.49	50	106.2	90 - 110	
95 Mo	72	1	52.63	ppb	0.43	50	105.3	90 - 110	
107 Ag	115	1	53.27	ppb	1.43	50	106.5	90 - 110	
111 Cd	115	1	52.77	ppb	1.83	50	105.5	90 - 110	
118 Sn	115	1	52.16	ppb	2.25	50	104.3	90 - 110	
121 Sb	115	1	52.16	ppb	1.00	50	104.3	90 - 110	
137 Ba	115	1	53.75	ppb	0.49	50	107.5	90 - 110	
205 Tl	165	1	53.81	ppb	0.70	50	107.6	90 - 110	
208 Pb	165	1	52.21	ppb	1.98	50	104.4	90 - 110	
232 Th	165	1	52.58	ppb	3.97	50	105.2	90 - 110	
238 U	165	1	52.47	ppb	2.18	50	104.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	781917	1.36	813856	96.1	30 - 120	
45 Sc	1	3360667	0.62	3365388	99.9	30 - 120	
72 Ge	1	2023252	1.21	2009611	100.7	30 - 120	
115 In	1	5242468	0.44	5142726	101.9	30 - 120	
165 Ho	1	9845860	0.31	9667228	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\047_CCB.D\047_CCB.D#
Date Acquired: Dec 28 2011 07:22 pm
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.007	ppb	89.24	1.00	
51 V	72	1	0.000	ppb	4798.10	1.00	
52 Cr	72	1	0.010	ppb	31.78	1.00	
55 Mn	72	1	0.035	ppb	17.38	1.00	
59 Co	72	1	0.007	ppb	25.01	1.00	
60 Ni	72	1	0.014	ppb	49.90	1.00	
63 Cu	72	1	0.002	ppb	68.36	1.00	
66 Zn	72	1	0.318	ppb	4.26	1.00	
75 As	72	1	0.022	ppb	22.43	1.00	
78 Se	72	1	0.092	ppb	156.63	1.00	
95 Mo	72	1	0.019	ppb	59.06	1.00	
107 Ag	115	1	0.013	ppb	26.04	1.00	
111 Cd	115	1	0.008	ppb	32.08	1.00	
118 Sn	115	1	0.056	ppb	23.50	1.00	
121 Sb	115	1	0.021	ppb	8.44	1.00	
137 Ba	115	1	0.007	ppb	138.55	1.00	
205 Tl	165	1	0.038	ppb	11.06	1.00	
208 Pb	165	1	0.016	ppb	10.33	1.00	
232 Th	165	1	0.078	ppb	8.61	1.00	
238 U	165	1	0.018	ppb	3.75	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	798234	1.28	813856	98.1	30 - 120	
45 Sc	1	3421183	1.12	3365388	101.7	30 - 120	
72 Ge	1	2048462	0.82	2009611	101.9	30 - 120	
115 In	1	5274728	1.56	5142726	102.6	30 - 120	
165 Ho	1	9730768	0.90	9667228	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\048WASH.D\048WASH.D#
Date Acquired: Dec 28 2011 07:25 pm
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.000 ppb	11.59	1.30	
51 V	72	1	5.307 ppb	2.30	6.50	
52 Cr	72	1	2.083 ppb	3.86	2.60	
55 Mn	72	1	1.115 ppb	2.39	1.30	
59 Co	72	1	1.037 ppb	1.46	1.30	
60 Ni	72	1	2.000 ppb	4.85	2.60	
63 Cu	72	1	2.089 ppb	2.09	2.60	
66 Zn	72	1	10.790 ppb	2.15	13.00	
75 As	72	1	5.343 ppb	3.40	6.50	
78 Se	72	1	5.541 ppb	13.67	6.50	
95 Mo	72	1	2.176 ppb	0.25	2.60	
107 Ag	115	1	5.486 ppb	2.42	6.50	
111 Cd	115	1	1.130 ppb	0.63	1.30	
118 Sn	115	1	10.660 ppb	1.38	13.00	
121 Sb	115	1	2.113 ppb	1.78	2.60	
137 Ba	115	1	1.098 ppb	2.53	1.30	
205 Tl	165	1	1.089 ppb	0.63	1.30	
208 Pb	165	1	1.057 ppb	2.11	1.30	
232 Th	165	1	2.096 ppb	6.01	2.60	
238 U	165	1	1.031 ppb	3.18	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	788527	3.71	813856	96.9	30 - 120	
45 Sc	1	3391851	1.02	3365388	100.8	30 - 120	
72 Ge	1	2039028	0.11	2009611	101.5	30 - 120	
115 In	1	5211201	0.99	5142726	101.3	30 - 120	
165 Ho	1	9821723	1.01	9667228	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\049_BLK.D\049_BLK.D#
Date Acquired: Dec 28 2011 07:28 pm
Operator: LRD
Sample Name: mb 280-101267/1-a
Misc Info: BLANK 101267 6020
Vial Number: 2309
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.004 ppb	8.55	2.00	
51 V	72	1	0.011 ppb	73.61	2.00	
52 Cr	72	1	0.043 ppb	26.97	2.00	
55 Mn	72	1	0.078 ppb	5.98	2.00	
59 Co	72	1	0.003 ppb	13.83	2.00	
60 Ni	72	1	0.122 ppb	8.98	2.00	
63 Cu	72	1	0.035 ppb	24.96	2.00	
66 Zn	72	1	1.480 ppb	1.76	2.00	
75 As	72	1	0.024 ppb	47.26	2.00	
78 Se	72	1	-0.136 ppb	88.86	2.00	
95 Mo	72	1	0.003 ppb	206.42	2.00	
107 Ag	115	1	0.003 ppb	22.34	2.00	
111 Cd	115	1	0.004 ppb	79.33	2.00	
118 Sn	115	1	0.128 ppb	16.52	2.00	
121 Sb	115	1	0.006 ppb	9.68	2.00	
137 Ba	115	1	0.189 ppb	6.96	2.00	
205 Tl	165	1	0.029 ppb	16.16	2.00	
208 Pb	165	1	0.016 ppb	6.81	2.00	
232 Th	165	1	0.028 ppb	15.40	2.00	
238 U	165	1	0.004 ppb	11.68	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	787209	2.87	813856	96.7	30 - 120	
45 Sc	1	3449237	0.29	3365388	102.5	30 - 120	
72 Ge	1	2026153	0.78	2009611	100.8	30 - 120	
115 In	1	5261501	0.55	5142726	102.3	30 - 120	
165 Ho	1	9885440	1.03	9667228	102.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\050_LCS.D\050_LCS.D#
Date Acquired: Dec 28 2011 07:30 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-101267/2-a
Misc Info: LCS
Vial Number: 2310
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	42.22	2.95	40	105.6	80 - 120	
51 V	72	1	42.95	2.85	40	107.4	80 - 120	
52 Cr	72	1	42.72	3.84	40	106.8	80 - 120	
55 Mn	72	1	44.33	3.66	40	110.8	80 - 120	
59 Co	72	1	43.09	1.60	40	107.7	80 - 120	
60 Ni	72	1	41.12	2.43	40	102.8	80 - 120	
63 Cu	72	1	42.34	4.20	40	105.9	80 - 120	
66 Zn	72	1	40.74	2.43	40	101.9	80 - 120	
75 As	72	1	40.87	2.40	40	102.2	80 - 120	
78 Se	72	1	40.98	1.84	40	102.5	80 - 120	
95 Mo	72	1	41.95	2.65	40	104.9	80 - 120	
107 Ag	115	1	44.00	1.19	40	110.0	80 - 120	
111 Cd	115	1	41.15	1.68	40	102.9	80 - 120	
118 Sn	115	1	42.35	2.35	40	105.9	80 - 120	
121 Sb	115	1	40.38	1.17	40	101.0	80 - 120	
137 Ba	115	1	42.72	1.35	40	106.8	80 - 120	
205 Tl	165	1	43.40	1.06	40	108.5	80 - 120	
208 Pb	165	1	41.79	1.91	40	104.5	80 - 120	
232 Th	165	1	42.58	3.46	40	106.5	80 - 120	
238 U	165	1	42.02	3.20	40	105.1	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	779420	0.51	813856	95.8	30 - 120	
45 Sc	1	3401353	1.65	3365388	101.1	30 - 120	
72 Ge	1	2056527	0.45	2009611	102.3	30 - 120	
115 In	1	5271683	1.47	5142726	102.5	30 - 120	
165 Ho	1	9929042	0.54	9667228	102.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\051AREF.D\051AREF.D#
Date Acquired: Dec 28 2011 07:33 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24078-b-1-a
Misc Info: 2X
Vial Number: 2311
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: AllRef
Dilution Factor: 2.00
Autodil Factor: Undiluted
Final Dil Factor: 2.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.02	0.01	ppb	85.13	3600	
51 V	72	1	0.56	0.28	ppb	8.29	3600	
52 Cr	72	1	0.76	0.38	ppb	4.36	3600	
55 Mn	72	1	4.98	2.49	ppb	1.63	18000	
59 Co	72	1	0.08	0.04	ppb	17.57	3600	
60 Ni	72	1	0.93	0.47	ppb	4.70	3600	
63 Cu	72	1	0.59	0.30	ppb	6.69	3600	
66 Zn	72	1	20.42	10.21	ppb	2.12	3600	
75 As	72	1	0.35	0.17	ppb	1.88	3600	
78 Se	72	1	3.68	1.84	ppb	16.48	3600	
95 Mo	72	1	0.26	0.13	ppb	7.51	3600	
107 Ag	115	1	0.02	0.01	ppb	19.94	3600	
111 Cd	115	1	2.29	1.14	ppb	1.21	3600	
118 Sn	115	1	0.42	0.21	ppb	10.38	3600	
121 Sb	115	1	0.14	0.07	ppb	4.47	3600	
137 Ba	115	1	19.14	9.57	ppb	2.23	3600	
205 Tl	165	1	0.12	0.06	ppb	22.17	3600	
208 Pb	165	1	0.15	0.08	ppb	7.07	3600	
232 Th	165	1	0.17	0.08	ppb	7.34	1000	
238 U	165	1	1.73	0.86	ppb	3.97	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	745535	2.27	813856	91.6	30 - 120	
45 Sc	1	3169009	0.90	3365388	94.2	30 - 120	
72 Ge	1	1853983	2.03	2009611	92.3	30 - 120	
115 In	1	4767176	0.77	5142726	92.7	30 - 120	
165 Ho	1	9260764	0.27	9667228	95.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\052SDIL.D\052SDIL.D#
Date Acquired: Dec 28 2011 07:36 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24078-b-1-a SD@10
Misc Info: SERIAL DILUTION
Vial Number: 2312
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SDIL
Dilution Factor: 2.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG122811.B\051AREF.D\051AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.00	ppb	298.41	0.00	219.6	90 - 110	
51 V	72	1	0.06	ppb	21.86	0.06	106.9	90 - 110	
52 Cr	72	1	0.06	ppb	18.97	0.08	77.2	90 - 110	
55 Mn	72	1	0.49	ppb	5.39	0.50	97.4	90 - 110	
59 Co	72	1	0.01	ppb	12.77	0.01	102.0	90 - 110	
60 Ni	72	1	0.09	ppb	19.87	0.09	96.9	90 - 110	
63 Cu	72	1	0.05	ppb	17.37	0.06	90.1	90 - 110	
66 Zn	72	1	2.11	ppb	1.12	2.04	103.3	90 - 110	
75 As	72	1	0.04	ppb	8.77	0.03	111.4	90 - 110	
78 Se	72	1	0.51	ppb	9.35	0.37	138.1	90 - 110	
95 Mo	72	1	0.02	ppb	49.45	0.03	63.7	90 - 110	
107 Ag	115	1	0.00	ppb	67.01	0.00	124.3	90 - 110	
111 Cd	115	1	0.23	ppb	6.14	0.23	99.9	90 - 110	
118 Sn	115	1	0.07	ppb	6.90	0.04	173.6	90 - 110	
121 Sb	115	1	0.02	ppb	15.56	0.01	143.2	90 - 110	
137 Ba	115	1	1.89	ppb	2.13	1.91	98.6	90 - 110	
205 Tl	165	1	0.01	ppb	21.66	0.01	63.3	90 - 110	
208 Pb	165	1	0.02	ppb	4.13	0.02	102.1	90 - 110	
232 Th	165	1	0.02	ppb	16.09	0.02	104.6	90 - 110	
238 U	165	1	0.17	ppb	1.95	0.17	101.0	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	783951	1.76	813856	96.3	30 - 120	
45 Sc	1	3263441	1.83	3365388	97.0	30 - 120	
72 Ge	1	1959147	0.80	2009611	97.5	30 - 120	
115 In	1	5022881	0.42	5142726	97.7	30 - 120	
165 Ho	1	9445619	0.87	9667228	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\053PDS.D\053PDS.D#
Date Acquired: Dec 28 2011 07:39 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24078-b-1-a PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 2401
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: PDS
Prep Dil. Factor: 2.00
Autodil Factor: Undiluted
Final Dil Factor: 2.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	193.40	0.01	ppb	4.04	200	96.7	75 - 125	
51 V	72	1	197.30	0.28	ppb	1.77	200	98.5	75 - 125	
52 Cr	72	1	193.10	0.38	ppb	2.89	200	96.4	75 - 125	
55 Mn	72	1	198.30	2.49	ppb	2.72	200	97.9	75 - 125	
59 Co	72	1	189.00	0.04	ppb	2.37	200	94.5	75 - 125	
60 Ni	72	1	191.50	0.47	ppb	1.87	200	95.5	75 - 125	
63 Cu	72	1	181.00	0.30	ppb	1.24	200	90.4	75 - 125	
66 Zn	72	1	193.10	10.21	ppb	1.27	200	91.9	75 - 125	
75 As	72	1	198.90	0.17	ppb	1.45	200	99.4	75 - 125	
78 Se	72	1	198.80	1.84	ppb	0.48	200	98.5	75 - 125	
95 Mo	72	1	202.60	0.13	ppb	0.98	200	101.2	75 - 125	
107 Ag	115	1	48.78	0.01	ppb	0.63	50	97.5	75 - 125	
111 Cd	115	1	194.20	1.14	ppb	1.74	200	96.5	75 - 125	
118 Sn	115	1	201.20	0.21	ppb	2.49	200	100.5	75 - 125	
121 Sb	115	1	197.80	0.07	ppb	1.92	200	98.9	75 - 125	
137 Ba	115	1	216.40	9.57	ppb	1.48	200	103.3	75 - 125	
205 Tl	165	1	191.30	0.06	ppb	1.62	200	95.6	75 - 125	
208 Pb	165	1	186.70	0.08	ppb	1.39	200	93.3	75 - 125	
232 Th	165	1	0.07	0.08	ppb	3.88	200	0.0	75 - 125	
238 U	165	1	191.20	0.86	ppb	2.14	200	95.2	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	748404	1.62	813856	92.0	30 - 120	
45 Sc	1	3049968	1.42	3365388	90.6	30 - 120	
72 Ge	1	1802339	0.71	2009611	89.7	30 - 120	
115 In	1	4611740	1.16	5142726	89.7	30 - 120	
165 Ho	1	8895120	1.20	9667228	92.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\054_MS.D\054_MS.D#
Date Acquired: Dec 28 2011 07:42 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24078-b-1-b ms
Misc Info: MATRIX SPIKE
Vial Number: 2402
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MS
Prep Dil. Factor: 2.00
Autodil Factor: Undiluted
Final Dil Factor: 2.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	19.85	0.01	ppb	1.51	40	49.6	50 - 150	
51 V	72	1	19.72	0.28	ppb	3.53	40	49.0	50 - 150	
52 Cr	72	1	19.25	0.38	ppb	3.29	40	47.7	50 - 150	
55 Mn	72	1	21.53	2.49	ppb	2.58	40	50.7	50 - 150	
59 Co	72	1	18.72	0.04	ppb	2.84	40	46.8	50 - 150	
60 Ni	72	1	18.63	0.47	ppb	2.82	40	46.0	50 - 150	
63 Cu	72	1	18.16	0.30	ppb	2.22	40	45.1	50 - 150	
66 Zn	72	1	27.11	10.21	ppb	2.99	40	54.0	50 - 150	
75 As	72	1	19.80	0.17	ppb	2.42	40	49.3	50 - 150	
78 Se	72	1	21.97	1.84	ppb	6.96	40	52.5	50 - 150	
95 Mo	72	1	19.92	0.13	ppb	3.68	40	49.6	50 - 150	
107 Ag	115	1	18.40	0.01	ppb	0.90	40	46.0	50 - 150	
111 Cd	115	1	19.74	1.14	ppb	1.26	40	48.0	50 - 150	
118 Sn	115	1	19.12	0.21	ppb	2.12	40	47.5	50 - 150	
121 Sb	115	1	18.93	0.07	ppb	1.83	40	47.2	50 - 150	
137 Ba	115	1	28.47	9.57	ppb	2.36	40	57.4	50 - 150	
205 Tl	165	1	18.89	0.06	ppb	0.94	40	47.2	50 - 150	
208 Pb	165	1	18.12	0.08	ppb	1.55	40	45.2	50 - 150	
232 Th	165	1	19.55	0.08	ppb	4.12	40	48.8	50 - 150	
238 U	165	1	20.49	0.86	ppb	3.20	40	50.1	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	761801	0.87	813856	93.6	30 - 120	
45 Sc	1	3166729	0.84	3365388	94.1	30 - 120	
72 Ge	1	1863807	1.23	2009611	92.7	30 - 120	
115 In	1	4814567	1.58	5142726	93.6	30 - 120	
165 Ho	1	9353852	1.11	9667228	96.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\055_MSD.D\055_MSD.D#
Date Acquired: Dec 28 2011 07:45 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24078-b-1-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 2403
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MSD
Dilution Factor: 2.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\054_MS.D\054_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	20.04	ppb	0.80	19.85	0.95	20	
51 V	72	1	20.25	ppb	1.30	19.72	2.65	20	
52 Cr	72	1	19.85	ppb	1.14	19.25	3.07	20	
55 Mn	72	1	22.28	ppb	1.61	21.53	3.42	20	
59 Co	72	1	19.26	ppb	2.11	18.72	2.84	20	
60 Ni	72	1	18.85	ppb	2.42	18.63	1.17	20	
63 Cu	72	1	18.89	ppb	1.70	18.16	3.94	20	
66 Zn	72	1	28.15	ppb	0.90	27.11	3.76	20	
75 As	72	1	20.42	ppb	1.49	19.80	3.08	20	
78 Se	72	1	22.77	ppb	4.96	21.97	3.58	20	
95 Mo	72	1	20.24	ppb	1.96	19.92	1.59	20	
107 Ag	115	1	19.23	ppb	2.23	18.40	4.41	20	
111 Cd	115	1	20.67	ppb	0.91	19.74	4.60	20	
118 Sn	115	1	20.07	ppb	2.70	19.12	4.85	20	
121 Sb	115	1	19.65	ppb	1.99	18.93	3.73	20	
137 Ba	115	1	29.49	ppb	2.47	28.47	3.52	20	
205 Tl	165	1	19.56	ppb	1.44	18.89	3.49	20	
208 Pb	165	1	18.81	ppb	0.50	18.12	3.74	20	
232 Th	165	1	20.49	ppb	3.22	19.55	4.70	20	
238 U	165	1	21.44	ppb	1.70	20.49	4.53	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	733300	0.68	813856	90.1	30 - 120	
45 Sc	1	3047289	2.03	3365388	90.5	30 - 120	
72 Ge	1	1812941	2.08	2009611	90.2	30 - 120	
115 In	1	4642234	2.34	5142726	90.3	30 - 120	
165 Ho	1	8941922	0.46	9667228	92.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\056_CCV.D\056_CCV.D#
Date Acquired: Dec 28 2011 07:48 pm
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	52.05	ppb	3.98	50	104.1	90 - 110	
51 V	72	1	52.15	ppb	2.70	50	104.3	90 - 110	
52 Cr	72	1	51.55	ppb	3.49	50	103.1	90 - 110	
55 Mn	72	1	53.26	ppb	2.47	50	106.5	90 - 110	
59 Co	72	1	52.16	ppb	2.71	50	104.3	90 - 110	
60 Ni	72	1	50.34	ppb	2.03	50	100.7	90 - 110	
63 Cu	72	1	52.10	ppb	2.73	50	104.2	90 - 110	
66 Zn	72	1	51.60	ppb	1.58	50	103.2	90 - 110	
75 As	72	1	51.55	ppb	1.91	50	103.1	90 - 110	
78 Se	72	1	52.17	ppb	6.02	50	104.3	90 - 110	
95 Mo	72	1	50.87	ppb	1.26	50	101.7	90 - 110	
107 Ag	115	1	50.47	ppb	1.60	50	100.9	90 - 110	
111 Cd	115	1	50.52	ppb	1.59	50	101.0	90 - 110	
118 Sn	115	1	50.25	ppb	2.02	50	100.5	90 - 110	
121 Sb	115	1	50.37	ppb	1.20	50	100.7	90 - 110	
137 Ba	115	1	51.62	ppb	1.16	50	103.2	90 - 110	
205 Tl	165	1	53.16	ppb	0.51	50	106.3	90 - 110	
208 Pb	165	1	51.40	ppb	1.51	50	102.8	90 - 110	
232 Th	165	1	52.09	ppb	2.19	50	104.2	90 - 110	
238 U	165	1	52.20	ppb	2.03	50	104.4	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	744783	2.53	813856	91.5	30 - 120	
45 Sc	1	3123700	0.58	3365388	92.8	30 - 120	
72 Ge	1	1865672	1.45	2009611	92.8	30 - 120	
115 In	1	4919287	1.01	5142726	95.7	30 - 120	
165 Ho	1	9160844	1.08	9667228	94.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\057_CCB.D\057_CCB.D#
Date Acquired: Dec 28 2011 07:51 pm
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.001	ppb	1067.50	1.00	
51	V	72	1	0.005	ppb	157.11	1.00	
52	Cr	72	1	0.010	ppb	42.69	1.00	
55	Mn	72	1	0.029	ppb	7.43	1.00	
59	Co	72	1	0.011	ppb	15.80	1.00	
60	Ni	72	1	0.011	ppb	34.36	1.00	
63	Cu	72	1	0.002	ppb	407.11	1.00	
66	Zn	72	1	0.024	ppb	12.29	1.00	
75	As	72	1	0.013	ppb	25.41	1.00	
78	Se	72	1	0.107	ppb	139.52	1.00	
95	Mo	72	1	0.020	ppb	14.11	1.00	
107	Ag	115	1	0.014	ppb	28.09	1.00	
111	Cd	115	1	0.008	ppb	85.54	1.00	
118	Sn	115	1	0.063	ppb	11.35	1.00	
121	Sb	115	1	0.029	ppb	6.16	1.00	
137	Ba	115	1	0.013	ppb	21.01	1.00	
205	Tl	165	1	0.029	ppb	10.56	1.00	
208	Pb	165	1	0.013	ppb	14.38	1.00	
232	Th	165	1	0.084	ppb	8.73	1.00	
238	U	165	1	0.017	ppb	7.40	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	732016	1.34	813856	89.9	30 - 120	
45	Sc	1	3087628	1.66	3365388	91.7	30 - 120	
72	Ge	1	1848936	0.87	2009611	92.0	30 - 120	
115	In	1	4835060	1.16	5142726	94.0	30 - 120	
165	Ho	1	9116419	0.76	9667228	94.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\058SMPL.D\058SMPL.D#
Date Acquired: Dec 28 2011 07:53 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24078-b-2-a
Misc Info:
Vial Number: 2404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.04	0.04	ppb	148.44	3600	
51 V	72	1	1.15	1.15	ppb	2.17	3600	
52 Cr	72	1	0.57	0.57	ppb	3.67	3600	
55 Mn	72	1	227.50	227.50	ppb	1.42	18000	
59 Co	72	1	0.61	0.61	ppb	1.04	3600	
60 Ni	72	1	2.95	2.95	ppb	1.88	3600	
63 Cu	72	1	0.69	0.69	ppb	5.38	3600	
66 Zn	72	1	19.15	19.15	ppb	2.21	3600	
75 As	72	1	0.61	0.61	ppb	4.06	3600	
78 Se	72	1	0.34	0.34	ppb	22.59	3600	
95 Mo	72	1	1.59	1.59	ppb	2.80	3600	
107 Ag	115	1	0.01	0.01	ppb	31.97	3600	
111 Cd	115	1	0.24	0.24	ppb	11.40	3600	
118 Sn	115	1	0.52	0.52	ppb	2.42	3600	
121 Sb	115	1	0.10	0.10	ppb	2.08	3600	
137 Ba	115	1	38.25	38.25	ppb	0.35	3600	
205 Tl	165	1	0.06	0.06	ppb	27.46	3600	
208 Pb	165	1	0.51	0.51	ppb	4.43	3600	
232 Th	165	1	0.12	0.12	ppb	6.38	1000	
238 U	165	1	3.45	3.45	ppb	2.42	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	692139	2.29	813856	85.0	30 - 120	
45 Sc	1	2903761	0.91	3365388	86.3	30 - 120	
72 Ge	1	1679016	0.40	2009611	83.5	30 - 120	
115 In	1	4372312	0.88	5142726	85.0	30 - 120	
165 Ho	1	8437613	0.72	9667228	87.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\059SMPL.D\059SMPL.D#
Date Acquired: Dec 28 2011 07:56 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24078-b-3-a
Misc Info:
Vial Number: 2405
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.04	0.04	ppb	64.92	3600	
51 V	72	1	3.86	3.86	ppb	1.10	3600	
52 Cr	72	1	0.16	0.16	ppb	4.41	3600	
55 Mn	72	1	909.50	909.50	ppb	0.35	18000	
59 Co	72	1	2.25	2.25	ppb	2.52	3600	
60 Ni	72	1	6.23	6.23	ppb	2.01	3600	
63 Cu	72	1	4.93	4.93	ppb	0.96	3600	
66 Zn	72	1	1,786.00	1786.00	ppb	0.43	3600	
75 As	72	1	2.13	2.13	ppb	3.35	3600	
78 Se	72	1	0.40	0.40	ppb	42.04	3600	
95 Mo	72	1	1.69	1.69	ppb	1.43	3600	
107 Ag	115	1	0.02	0.02	ppb	14.75	3600	
111 Cd	115	1	6.90	6.90	ppb	1.71	3600	
118 Sn	115	1	1.33	1.33	ppb	2.28	3600	
121 Sb	115	1	0.37	0.37	ppb	3.59	3600	
137 Ba	115	1	100.80	100.80	ppb	1.79	3600	
205 Tl	165	1	0.03	0.03	ppb	7.79	3600	
208 Pb	165	1	0.25	0.25	ppb	2.08	3600	
232 Th	165	1	0.03	0.03	ppb	4.42	1000	
238 U	165	1	4.00	4.00	ppb	2.53	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	668714	1.82	813856	82.2	30 - 120	
45 Sc	1	2864681	1.85	3365388	85.1	30 - 120	
72 Ge	1	1657779	2.19	2009611	82.5	30 - 120	
115 In	1	4270461	0.65	5142726	83.0	30 - 120	
165 Ho	1	8167041	0.26	9667228	84.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\060SMPL.D\060SMPL.D#
Date Acquired: Dec 28 2011 07:59 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24078-b-4-a
Misc Info:
Vial Number: 2406
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.01	0.01	ppb	99.30	3600	
51 V	72	1	0.85	0.85	ppb	4.96	3600	
52 Cr	72	1	0.33	0.33	ppb	6.82	3600	
55 Mn	72	1	30.11	30.11	ppb	3.92	18000	
59 Co	72	1	0.27	0.27	ppb	0.80	3600	
60 Ni	72	1	1.31	1.31	ppb	6.05	3600	
63 Cu	72	1	1.05	1.05	ppb	5.29	3600	
66 Zn	72	1	35.71	35.71	ppb	4.18	3600	
75 As	72	1	0.31	0.31	ppb	3.19	3600	
78 Se	72	1	1.32	1.32	ppb	21.82	3600	
95 Mo	72	1	0.21	0.21	ppb	12.25	3600	
107 Ag	115	1	0.00	0.00	ppb	14.05	3600	
111 Cd	115	1	0.11	0.11	ppb	30.22	3600	
118 Sn	115	1	0.36	0.36	ppb	14.55	3600	
121 Sb	115	1	0.05	0.05	ppb	13.55	3600	
137 Ba	115	1	25.38	25.38	ppb	4.55	3600	
205 Tl	165	1	0.03	0.03	ppb	12.84	3600	
208 Pb	165	1	0.15	0.15	ppb	27.11	3600	
232 Th	165	1	0.02	0.02	ppb	10.39	1000	
238 U	165	1	3.36	3.36	ppb	5.61	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	640374	3.72	813856	78.7	30 - 120	
45 Sc	1	2620461	3.88	3365388	77.9	30 - 120	
72 Ge	1	1515491	2.94	2009611	75.4	30 - 120	
115 In	1	3846499	3.85	5142726	74.8	30 - 120	
165 Ho	1	7548270	4.28	9667228	78.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\061SMPL.D\061SMPL.D#
Date Acquired: Dec 28 2011 08:02 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24078-b-5-a
Misc Info:
Vial Number: 2407
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.05	0.05	ppb	84.99	3600	
51 V	72	1	1.38	1.38	ppb	1.12	3600	
52 Cr	72	1	0.72	0.72	ppb	1.16	3600	
55 Mn	72	1	18.21	18.21	ppb	2.35	18000	
59 Co	72	1	0.20	0.20	ppb	1.76	3600	
60 Ni	72	1	0.69	0.69	ppb	8.95	3600	
63 Cu	72	1	0.67	0.67	ppb	4.46	3600	
66 Zn	72	1	6.48	6.48	ppb	1.89	3600	
75 As	72	1	0.44	0.44	ppb	4.20	3600	
78 Se	72	1	1.96	1.96	ppb	3.48	3600	
95 Mo	72	1	0.84	0.84	ppb	5.10	3600	
107 Ag	115	1	0.01	0.01	ppb	19.66	3600	
111 Cd	115	1	0.07	0.07	ppb	19.30	3600	
118 Sn	115	1	0.47	0.47	ppb	8.75	3600	
121 Sb	115	1	0.05	0.05	ppb	10.75	3600	
137 Ba	115	1	37.50	37.50	ppb	0.96	3600	
205 Tl	165	1	0.02	0.02	ppb	3.50	3600	
208 Pb	165	1	0.85	0.85	ppb	1.05	3600	
232 Th	165	1	0.38	0.38	ppb	5.50	1000	
238 U	165	1	1.73	1.73	ppb	0.96	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	654667	0.10	813856	80.4	30 - 120	
45 Sc	1	2669086	2.40	3365388	79.3	30 - 120	
72 Ge	1	1563252	2.70	2009611	77.8	30 - 120	
115 In	1	4055209	2.83	5142726	78.9	30 - 120	
165 Ho	1	7772607	3.17	9667228	80.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\062SMPL.D\062SMPL.D#
Date Acquired: Dec 28 2011 08:05 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24078-b-6-a
Misc Info:
Vial Number: 2408
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.07	0.07	ppb	45.10	3600	
51 V	72	1	1.55	1.55	ppb	2.74	3600	
52 Cr	72	1	0.38	0.38	ppb	5.82	3600	
55 Mn	72	1	12,540.00	12540.00	ppb	5.92	18000	
59 Co	72	1	9.88	9.88	ppb	4.93	3600	
60 Ni	72	1	49.19	49.19	ppb	4.64	3600	
63 Cu	72	1	3.93	3.93	ppb	5.84	3600	
66 Zn	72	1	16,380.00	16380.00	ppb	4.64	3600	>LDR
75 As	72	1	0.85	0.85	ppb	3.22	3600	
78 Se	72	1	0.66	0.66	ppb	42.33	3600	
95 Mo	72	1	2.16	2.16	ppb	4.28	3600	
107 Ag	115	1	0.01	0.01	ppb	12.58	3600	
111 Cd	115	1	1,700.00	1700.00	ppb	3.53	3600	
118 Sn	115	1	0.91	0.91	ppb	5.21	3600	
121 Sb	115	1	0.20	0.20	ppb	4.34	3600	
137 Ba	115	1	55.04	55.04	ppb	4.41	3600	
205 Tl	165	1	0.03	0.03	ppb	6.15	3600	
208 Pb	165	1	6.65	6.65	ppb	3.77	3600	
232 Th	165	1	0.24	0.24	ppb	3.67	1000	
238 U	165	1	2.66	2.66	ppb	5.02	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	656853	1.45	813856	80.7	30 - 120	
45 Sc	1	2544985	2.19	3365388	75.6	30 - 120	
72 Ge	1	1475685	1.97	2009611	73.4	30 - 120	
115 In	1	3819924	1.97	5142726	74.3	30 - 120	
165 Ho	1	7404552	1.82	9667228	76.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\063SMPL.D\063SMPL.D#
Date Acquired: Dec 28 2011 08:08 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24078-b-7-a
Misc Info:
Vial Number: 2409
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.08	0.08	ppb	65.25	3600	
51 V	72	1	1.48	1.48	ppb	3.14	3600	
52 Cr	72	1	0.28	0.28	ppb	5.74	3600	
55 Mn	72	1	12,560.00	12560.00	ppb	2.37	18000	
59 Co	72	1	9.90	9.90	ppb	2.57	3600	
60 Ni	72	1	49.29	49.29	ppb	2.96	3600	
63 Cu	72	1	3.74	3.74	ppb	1.63	3600	
66 Zn	72	1	16,600.00	16600.00	ppb	1.95	3600	>LDR
75 As	72	1	0.77	0.77	ppb	7.66	3600	
78 Se	72	1	0.53	0.53	ppb	16.13	3600	
95 Mo	72	1	2.24	2.24	ppb	3.92	3600	
107 Ag	115	1	0.01	0.01	ppb	24.59	3600	
111 Cd	115	1	1,705.00	1705.00	ppb	2.18	3600	
118 Sn	115	1	0.83	0.83	ppb	0.90	3600	
121 Sb	115	1	0.21	0.21	ppb	6.58	3600	
137 Ba	115	1	54.33	54.33	ppb	2.27	3600	
205 Tl	165	1	0.03	0.03	ppb	0.45	3600	
208 Pb	165	1	6.13	6.13	ppb	1.74	3600	
232 Th	165	1	0.15	0.15	ppb	5.01	1000	
238 U	165	1	2.65	2.65	ppb	3.65	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	604585	4.12	813856	74.3	30 - 120	
45 Sc	1	2303688	1.87	3365388	68.5	30 - 120	
72 Ge	1	1323860	1.61	2009611	65.9	30 - 120	
115 In	1	3438242	3.10	5142726	66.9	30 - 120	
165 Ho	1	6688888	1.54	9667228	69.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\064_CCV.D\064_CCV.D#
Date Acquired: Dec 28 2011 08:11 pm
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	51.80	ppb	2.98	50	103.6	90 - 110	
51 V	72	1	51.18	ppb	4.71	50	102.4	90 - 110	
52 Cr	72	1	50.85	ppb	5.24	50	101.7	90 - 110	
55 Mn	72	1	53.17	ppb	2.80	50	106.3	90 - 110	
59 Co	72	1	50.62	ppb	3.72	50	101.2	90 - 110	
60 Ni	72	1	48.09	ppb	3.44	50	96.2	90 - 110	
63 Cu	72	1	48.78	ppb	2.63	50	97.6	90 - 110	
66 Zn	72	1	52.69	ppb	2.44	50	105.4	90 - 110	
75 As	72	1	50.12	ppb	2.27	50	100.2	90 - 110	
78 Se	72	1	50.11	ppb	3.02	50	100.2	90 - 110	
95 Mo	72	1	50.19	ppb	2.78	50	100.4	90 - 110	
107 Ag	115	1	51.19	ppb	1.98	50	102.4	90 - 110	
111 Cd	115	1	51.23	ppb	2.44	50	102.5	90 - 110	
118 Sn	115	1	51.12	ppb	2.27	50	102.2	90 - 110	
121 Sb	115	1	51.51	ppb	2.33	50	103.0	90 - 110	
137 Ba	115	1	53.14	ppb	1.99	50	106.3	90 - 110	
205 Tl	165	1	53.42	ppb	1.77	50	106.8	90 - 110	
208 Pb	165	1	52.00	ppb	2.00	50	104.0	90 - 110	
232 Th	165	1	52.98	ppb	3.97	50	106.0	90 - 110	
238 U	165	1	53.34	ppb	2.31	50	106.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	690960	1.99	813856	84.9	30 - 120	
45 Sc	1	2734483	0.67	3365388	81.3	30 - 120	
72 Ge	1	1719215	1.74	2009611	85.5	30 - 120	
115 In	1	4378810	1.20	5142726	85.1	30 - 120	
165 Ho	1	8395148	1.08	9667228	86.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\065_CCB.D\065_CCB.D#
Date Acquired: Dec 28 2011 08:14 pm
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.009	ppb	78.67	1.00	
51 V	72	1	-0.003	ppb	73.80	1.00	
52 Cr	72	1	0.003	ppb	56.86	1.00	
55 Mn	72	1	0.689	ppb	3.72	1.00	
59 Co	72	1	0.004	ppb	100.00	1.00	
60 Ni	72	1	0.014	ppb	41.80	1.00	
63 Cu	72	1	-0.001	ppb	309.44	1.00	
66 Zn	72	1	1.072	ppb	6.19	1.00	Fail
75 As	72	1	0.014	ppb	79.18	1.00	
78 Se	72	1	-0.145	ppb	93.86	1.00	
95 Mo	72	1	0.011	ppb	81.34	1.00	
107 Ag	115	1	0.010	ppb	32.69	1.00	
111 Cd	115	1	0.111	ppb	7.62	1.00	
118 Sn	115	1	0.054	ppb	8.76	1.00	
121 Sb	115	1	0.014	ppb	36.36	1.00	
137 Ba	115	1	0.009	ppb	12.38	1.00	
205 Tl	165	1	0.025	ppb	4.86	1.00	
208 Pb	165	1	0.010	ppb	10.50	1.00	
232 Th	165	1	0.081	ppb	4.62	1.00	
238 U	165	1	0.014	ppb	7.93	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	688430	2.02	813856	84.6	30 - 120	
45 Sc	1	2724312	2.36	3365388	81.0	30 - 120	
72 Ge	1	1711031	1.68	2009611	85.1	30 - 120	
115 In	1	4391206	2.37	5142726	85.4	30 - 120	
165 Ho	1	8344585	1.25	9667228	86.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\066_BLK.D\066_BLK.D#
Date Acquired: Dec 28 2011 08:17 pm
Operator: LRD
Sample Name: mb 280-100934/1-a
Misc Info: BLANK 100934 Soil/DoD4/6020A
Vial Number: 2507
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.005 ppb	239.52	2.00	
51 V	72	1	-0.008 ppb	12.10	2.00	
52 Cr	72	1	0.030 ppb	35.66	2.00	
55 Mn	72	1	0.297 ppb	3.66	2.00	
59 Co	72	1	0.011 ppb	20.66	2.00	
60 Ni	72	1	0.038 ppb	21.53	2.00	
63 Cu	72	1	0.066 ppb	12.71	2.00	
66 Zn	72	1	0.523 ppb	5.39	2.00	
75 As	72	1	0.004 ppb	65.75	2.00	
78 Se	72	1	0.105 ppb	189.16	2.00	
95 Mo	72	1	0.008 ppb	37.52	2.00	
107 Ag	115	1	0.006 ppb	27.32	2.00	
111 Cd	115	1	0.042 ppb	13.63	2.00	
118 Sn	115	1	0.131 ppb	15.57	2.00	
121 Sb	115	1	0.007 ppb	19.51	2.00	
137 Ba	115	1	0.046 ppb	21.04	2.00	
205 Tl	165	1	0.015 ppb	3.97	2.00	
208 Pb	165	1	0.069 ppb	3.25	2.00	
232 Th	165	1	0.033 ppb	2.82	2.00	
238 U	165	1	0.004 ppb	3.63	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	697928	2.94	813856	85.8	30 - 120	
45 Sc	1	2733750	1.68	3365388	81.2	30 - 120	
72 Ge	1	1694913	0.91	2009611	84.3	30 - 120	
115 In	1	4296331	1.51	5142726	83.5	30 - 120	
165 Ho	1	8185397	1.64	9667228	84.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\067_LCS.D\067_LCS.D#
Date Acquired: Dec 28 2011 08:20 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-100934/2-a
Misc Info: LCS
Vial Number: 2508
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	39.92	3.45	40	99.8	80 - 120	
51 V	72	1	39.35	1.84	40	98.4	80 - 120	
52 Cr	72	1	39.81	4.06	40	99.5	80 - 120	
55 Mn	72	1	40.01	2.19	40	100.0	80 - 120	
59 Co	72	1	40.26	1.51	40	100.7	80 - 120	
60 Ni	72	1	38.50	1.78	40	96.3	80 - 120	
63 Cu	72	1	39.25	1.54	40	98.1	80 - 120	
66 Zn	72	1	38.88	1.07	40	97.2	80 - 120	
75 As	72	1	39.30	1.58	40	98.3	80 - 120	
78 Se	72	1	39.42	5.02	40	98.6	80 - 120	
95 Mo	72	1	39.48	2.00	40	98.7	80 - 120	
107 Ag	115	1	41.99	3.06	40	105.0	80 - 120	
111 Cd	115	1	40.51	2.96	40	101.3	80 - 120	
118 Sn	115	1	40.78	3.47	40	102.0	80 - 120	
121 Sb	115	1	40.33	2.50	40	100.8	80 - 120	
137 Ba	115	1	42.85	1.93	40	107.1	80 - 120	
205 Tl	165	1	41.60	0.99	40	104.0	80 - 120	
208 Pb	165	1	41.52	2.25	40	103.8	80 - 120	
232 Th	165	1	42.24	4.02	40	105.6	80 - 120	
238 U	165	1	42.00	4.09	40	105.0	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	703252	2.06	813856	86.4	30 - 120	
45 Sc	1	2775509	1.16	3365388	82.5	30 - 120	
72 Ge	1	1721093	1.06	2009611	85.6	30 - 120	
115 In	1	4368936	0.23	5142726	85.0	30 - 120	
165 Ho	1	8399212	0.96	9667228	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\068SMPL.D\068SMPL.D#
Date Acquired: Dec 28 2011 08:23 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-1-b
Misc Info:
Vial Number: 2509
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	3.47	3.47	ppb	6.99	3600	
51 V	72	1	171.30	171.30	ppb	2.18	3600	
52 Cr	72	1	95.83	95.83	ppb	2.85	3600	
55 Mn	72	1	1,819.00	1819.00	ppb	2.03	18000	
59 Co	72	1	40.87	40.87	ppb	1.34	3600	
60 Ni	72	1	98.00	98.00	ppb	2.50	3600	
63 Cu	72	1	202.80	202.80	ppb	2.04	3600	
66 Zn	72	1	355.80	355.80	ppb	0.91	3600	
75 As	72	1	20.46	20.46	ppb	0.96	3600	
78 Se	72	1	4.74	4.74	ppb	8.88	3600	
95 Mo	72	1	0.46	0.46	ppb	7.28	3600	
107 Ag	115	1	0.22	0.22	ppb	4.45	3600	
111 Cd	115	1	0.71	0.71	ppb	2.02	3600	
118 Sn	115	1	0.17	0.17	ppb	3.25	3600	
121 Sb	115	1	0.56	0.56	ppb	4.83	3600	
137 Ba	115	1	355.50	355.50	ppb	0.86	3600	
205 Tl	165	1	0.79	0.79	ppb	3.24	3600	
208 Pb	165	1	2,801.00	2801.00	ppb	1.63	3600	
232 Th	165	1	31.91	31.91	ppb	4.24	1000	
238 U	165	1	5.55	5.55	ppb	2.33	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	668363	1.61	813856	82.1	30 - 120	
45 Sc	1	2904184	1.03	3365388	86.3	30 - 120	
72 Ge	1	1706065	0.49	2009611	84.9	30 - 120	
115 In	1	4215824	1.05	5142726	82.0	30 - 120	
165 Ho	1	8230854	0.19	9667228	85.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\069AREF.D\069AREF.D#
Date Acquired: Dec 28 2011 08:25 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-2-d
Misc Info:
Vial Number: 2510
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	2.23	2.23	ppb	8.05	3600	
51 V	72	1	109.10	109.10	ppb	2.13	3600	
52 Cr	72	1	60.01	60.01	ppb	3.05	3600	
55 Mn	72	1	1,182.00	1182.00	ppb	2.85	18000	
59 Co	72	1	26.79	26.79	ppb	2.87	3600	
60 Ni	72	1	57.26	57.26	ppb	3.88	3600	
63 Cu	72	1	40.27	40.27	ppb	2.16	3600	
66 Zn	72	1	180.40	180.40	ppb	2.54	3600	
75 As	72	1	12.94	12.94	ppb	1.92	3600	
78 Se	72	1	3.71	3.71	ppb	12.20	3600	
95 Mo	72	1	0.43	0.43	ppb	11.47	3600	
107 Ag	115	1	0.12	0.12	ppb	6.03	3600	
111 Cd	115	1	0.56	0.56	ppb	14.88	3600	
118 Sn	115	1	0.12	0.12	ppb	9.83	3600	
121 Sb	115	1	0.05	0.05	ppb	8.65	3600	
137 Ba	115	1	309.40	309.40	ppb	2.37	3600	
205 Tl	165	1	0.43	0.43	ppb	2.30	3600	
208 Pb	165	1	86.71	86.71	ppb	3.06	3600	
232 Th	165	1	20.08	20.08	ppb	5.58	1000	
238 U	165	1	2.60	2.60	ppb	3.35	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	669142	1.20	813856	82.2	30 - 120	
45 Sc	1	2887423	1.59	3365388	85.8	30 - 120	
72 Ge	1	1729004	0.51	2009611	86.0	30 - 120	
115 In	1	4351419	2.72	5142726	84.6	30 - 120	
165 Ho	1	8529210	1.43	9667228	88.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\070SDIL.D\070SDIL.D#
Date Acquired: Dec 28 2011 08:28 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-2-d SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2511
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG122811.B\069AREF.D\069AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.45	ppb	14.36	0.45	101.5	90 - 110	
51 V	72	1	21.26	ppb	3.27	21.82	97.4	90 - 110	
52 Cr	72	1	11.65	ppb	2.05	12.00	97.1	90 - 110	
55 Mn	72	1	240.20	ppb	2.79	236.40	101.6	90 - 110	
59 Co	72	1	5.38	ppb	1.01	5.36	100.4	90 - 110	
60 Ni	72	1	11.80	ppb	2.20	11.45	103.0	90 - 110	
63 Cu	72	1	8.24	ppb	2.24	8.05	102.3	90 - 110	
66 Zn	72	1	36.78	ppb	2.71	36.08	101.9	90 - 110	
75 As	72	1	2.61	ppb	2.08	2.59	100.8	90 - 110	
78 Se	72	1	0.78	ppb	27.25	0.74	105.0	90 - 110	
95 Mo	72	1	0.10	ppb	21.78	0.09	119.9	90 - 110	
107 Ag	115	1	0.02	ppb	6.01	0.02	94.6	90 - 110	
111 Cd	115	1	0.14	ppb	11.93	0.11	120.7	90 - 110	
118 Sn	115	1	0.06	ppb	12.68	0.02	227.3	90 - 110	
121 Sb	115	1	0.01	ppb	25.15	0.01	84.8	90 - 110	
137 Ba	115	1	58.70	ppb	1.49	61.88	94.9	90 - 110	
205 Tl	165	1	0.09	ppb	2.62	0.09	101.3	90 - 110	
208 Pb	165	1	17.58	ppb	2.31	17.34	101.4	90 - 110	
232 Th	165	1	3.95	ppb	4.08	4.02	98.4	90 - 110	
238 U	165	1	0.52	ppb	1.91	0.52	100.0	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	698073	0.29	813856	85.8	30 - 120	
45 Sc	1	2914573	0.67	3365388	86.6	30 - 120	
72 Ge	1	1804228	1.26	2009611	89.8	30 - 120	
115 In	1	4613673	0.53	5142726	89.7	30 - 120	
165 Ho	1	8812704	1.19	9667228	91.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\071PDS.D\071PDS.D#
Date Acquired: Dec 28 2011 08:31 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-2-d PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 2512
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	200.30	2.23	ppb	3.90	200	99.0	75 - 125	
51 V	72	1	293.00	109.10	ppb	3.29	200	94.8	75 - 125	
52 Cr	72	1	245.10	60.01	ppb	3.63	200	94.3	75 - 125	
55 Mn	72	1	1331.00	1182.00	ppb	3.14	200	96.3	75 - 125	
59 Co	72	1	211.70	26.79	ppb	2.95	200	93.3	75 - 125	
60 Ni	72	1	243.00	57.26	ppb	2.99	200	94.5	75 - 125	
63 Cu	72	1	219.20	40.27	ppb	2.68	200	91.2	75 - 125	
66 Zn	72	1	367.30	180.40	ppb	1.42	200	96.6	75 - 125	
75 As	72	1	207.30	12.94	ppb	1.65	200	97.4	75 - 125	
78 Se	72	1	196.80	3.71	ppb	3.82	200	96.6	75 - 125	
95 Mo	72	1	201.90	0.43	ppb	2.15	200	100.7	75 - 125	
107 Ag	115	1	50.45	0.12	ppb	2.79	50	100.7	75 - 125	
111 Cd	115	1	199.80	0.56	ppb	2.44	200	99.6	75 - 125	
118 Sn	115	1	208.30	0.12	ppb	3.16	200	104.1	75 - 125	
121 Sb	115	1	204.30	0.05	ppb	3.62	200	102.1	75 - 125	
137 Ba	115	1	507.10	309.40	ppb	2.86	200	99.5	75 - 125	
205 Tl	165	1	198.90	0.43	ppb	1.26	200	99.2	75 - 125	
208 Pb	165	1	273.90	86.71	ppb	3.03	200	95.5	75 - 125	
232 Th	165	1	19.28	20.08	ppb	5.40	200	8.8	75 - 125	
238 U	165	1	200.40	2.60	ppb	4.43	200	98.9	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	679148	2.93	813856	83.4	30 - 120	
45 Sc	1	2858061	1.05	3365388	84.9	30 - 120	
72 Ge	1	1726366	0.69	2009611	85.9	30 - 120	
115 In	1	4374358	1.23	5142726	85.1	30 - 120	
165 Ho	1	8454585	0.65	9667228	87.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\072_MS.D\072_MS.D#
Date Acquired: Dec 28 2011 08:34 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-2-e ms
Misc Info: MATRIX SPIKE
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	41.22	2.23	ppb	1.05	40	97.6	50 - 150	
51 V	72	1	165.10	109.10	ppb	3.55	40	110.7	50 - 150	
52 Cr	72	1	107.50	60.01	ppb	4.84	40	107.5	50 - 150	
55 Mn	72	1	1268.00	1182.00	ppb	2.69	40	103.8	50 - 150	
59 Co	72	1	66.59	26.79	ppb	3.46	40	99.7	50 - 150	
60 Ni	72	1	100.60	57.26	ppb	1.90	40	103.4	50 - 150	
63 Cu	72	1	81.53	40.27	ppb	3.06	40	101.6	50 - 150	
66 Zn	72	1	236.30	180.40	ppb	1.88	40	107.2	50 - 150	
75 As	72	1	49.13	12.94	ppb	1.78	40	92.8	50 - 150	
78 Se	72	1	39.10	3.71	ppb	5.24	40	89.4	50 - 150	
95 Mo	72	1	20.94	0.43	ppb	1.86	40	51.8	50 - 150	
107 Ag	115	1	36.78	0.12	ppb	0.82	40	91.7	50 - 150	
111 Cd	115	1	39.68	0.56	ppb	1.31	40	97.8	50 - 150	
118 Sn	115	1	1.08	0.12	ppb	2.50	40	2.7	50 - 150	
121 Sb	115	1	0.54	0.05	ppb	5.81	40	1.3	50 - 150	
137 Ba	115	1	394.10	309.40	ppb	0.92	40	112.8	50 - 150	
205 Tl	165	1	38.80	0.43	ppb	0.50	40	96.0	50 - 150	
208 Pb	165	1	125.70	86.71	ppb	2.10	40	99.2	50 - 150	
232 Th	165	1	62.55	20.08	ppb	3.77	40	104.1	50 - 150	
238 U	165	1	43.29	2.60	ppb	3.99	40	101.6	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	677678	0.62	813856	83.3	30 - 120	
45 Sc	1	2888672	1.14	3365388	85.8	30 - 120	
72 Ge	1	1727401	0.27	2009611	86.0	30 - 120	
115 In	1	4275156	0.83	5142726	83.1	30 - 120	
165 Ho	1	8395654	0.82	9667228	86.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\073_MSD.D\073_MSD.D#
Date Acquired: Dec 28 2011 08:37 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-2-f msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\072_MS.D\072_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	42.08	ppb	2.93	41.22	2.06	20	
51 V	72	1	166.00	ppb	2.15	165.10	0.54	20	
52 Cr	72	1	108.10	ppb	2.29	107.50	0.56	20	
55 Mn	72	1	1495.00	ppb	1.94	1268.00	16.43	20	
59 Co	72	1	70.84	ppb	1.15	66.59	6.18	20	
60 Ni	72	1	103.00	ppb	1.39	100.60	2.36	20	
63 Cu	72	1	83.14	ppb	0.53	81.53	1.96	20	
66 Zn	72	1	240.00	ppb	1.68	236.30	1.55	20	
75 As	72	1	50.10	ppb	1.98	49.13	1.96	20	
78 Se	72	1	40.51	ppb	4.82	39.10	3.54	20	
95 Mo	72	1	21.66	ppb	1.54	20.94	3.38	20	
107 Ag	115	1	37.75	ppb	1.32	36.78	2.60	20	
111 Cd	115	1	40.63	ppb	1.80	39.68	2.37	20	
118 Sn	115	1	1.03	ppb	3.63	1.08	4.28	20	
121 Sb	115	1	0.50	ppb	2.37	0.54	7.08	20	
137 Ba	115	1	411.30	ppb	1.34	394.10	4.27	20	
205 Tl	165	1	40.01	ppb	0.63	38.80	3.07	20	
208 Pb	165	1	132.70	ppb	1.37	125.70	5.42	20	
232 Th	165	1	62.80	ppb	2.95	62.55	0.40	20	
238 U	165	1	44.03	ppb	1.90	43.29	1.69	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	662204	1.23	813856	81.4	30 - 120	
45 Sc	1	2827243	1.32	3365388	84.0	30 - 120	
72 Ge	1	1704329	0.37	2009611	84.8	30 - 120	
115 In	1	4251570	1.30	5142726	82.7	30 - 120	
165 Ho	1	8291341	0.28	9667228	85.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\074SMPL.D\074SMPL.D#
Date Acquired: Dec 28 2011 08:40 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-3-b
Misc Info:
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	4.12	4.12	ppb	7.35	3600	
51 V	72	1	210.80	210.80	ppb	2.50	3600	
52 Cr	72	1	115.10	115.10	ppb	2.17	3600	
55 Mn	72	1	1,857.00	1857.00	ppb	1.79	18000	
59 Co	72	1	57.02	57.02	ppb	1.97	3600	
60 Ni	72	1	99.97	99.97	ppb	1.61	3600	
63 Cu	72	1	53.97	53.97	ppb	2.44	3600	
66 Zn	72	1	256.60	256.60	ppb	1.42	3600	
75 As	72	1	17.79	17.79	ppb	2.25	3600	
78 Se	72	1	5.77	5.77	ppb	5.29	3600	
95 Mo	72	1	0.50	0.50	ppb	2.57	3600	
107 Ag	115	1	0.16	0.16	ppb	8.47	3600	
111 Cd	115	1	0.71	0.71	ppb	4.17	3600	
118 Sn	115	1	0.08	0.08	ppb	5.59	3600	
121 Sb	115	1	0.03	0.03	ppb	8.18	3600	
137 Ba	115	1	758.90	758.90	ppb	2.04	3600	
205 Tl	165	1	0.72	0.72	ppb	2.20	3600	
208 Pb	165	1	81.24	81.24	ppb	1.37	3600	
232 Th	165	1	29.82	29.82	ppb	2.18	1000	
238 U	165	1	2.92	2.92	ppb	1.81	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	651953	1.01	813856	80.1	30 - 120	
45 Sc	1	2887286	0.96	3365388	85.8	30 - 120	
72 Ge	1	1718857	0.22	2009611	85.5	30 - 120	
115 In	1	4194948	0.61	5142726	81.6	30 - 120	
165 Ho	1	8245140	0.75	9667228	85.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\075_CCV.D\075_CCV.D#
Date Acquired: Dec 28 2011 08:42 pm
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	50.88	ppb	3.25	50	101.8	90 - 110	
51 V	72	1	51.28	ppb	3.57	50	102.6	90 - 110	
52 Cr	72	1	50.32	ppb	4.05	50	100.6	90 - 110	
55 Mn	72	1	52.19	ppb	2.88	50	104.4	90 - 110	
59 Co	72	1	51.51	ppb	2.56	50	103.0	90 - 110	
60 Ni	72	1	49.03	ppb	2.04	50	98.1	90 - 110	
63 Cu	72	1	50.78	ppb	2.72	50	101.6	90 - 110	
66 Zn	72	1	50.05	ppb	2.68	50	100.1	90 - 110	
75 As	72	1	50.51	ppb	2.66	50	101.0	90 - 110	
78 Se	72	1	51.21	ppb	4.95	50	102.4	90 - 110	
95 Mo	72	1	50.58	ppb	1.71	50	101.2	90 - 110	
107 Ag	115	1	51.34	ppb	2.58	50	102.7	90 - 110	
111 Cd	115	1	50.23	ppb	3.37	50	100.5	90 - 110	
118 Sn	115	1	50.43	ppb	3.22	50	100.9	90 - 110	
121 Sb	115	1	50.36	ppb	2.16	50	100.7	90 - 110	
137 Ba	115	1	52.52	ppb	1.68	50	105.0	90 - 110	
205 Tl	165	1	53.22	ppb	0.80	50	106.4	90 - 110	
208 Pb	165	1	51.41	ppb	2.45	50	102.8	90 - 110	
232 Th	165	1	52.08	ppb	2.61	50	104.2	90 - 110	
238 U	165	1	51.16	ppb	3.33	50	102.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	709695	0.63	813856	87.2	30 - 120	
45 Sc	1	2936906	0.56	3365388	87.3	30 - 120	
72 Ge	1	1864694	0.20	2009611	92.8	30 - 120	
115 In	1	4804587	0.54	5142726	93.4	30 - 120	
165 Ho	1	8831880	0.44	9667228	91.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\076_CCB.D\076_CCB.D#
Date Acquired: Dec 28 2011 08:45 pm
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.013	ppb	53.97	1.00	
51 V	72	1	0.012	ppb	94.93	1.00	
52 Cr	72	1	0.009	ppb	42.84	1.00	
55 Mn	72	1	0.145	ppb	2.93	1.00	
59 Co	72	1	0.012	ppb	26.96	1.00	
60 Ni	72	1	0.012	ppb	20.99	1.00	
63 Cu	72	1	0.006	ppb	45.78	1.00	
66 Zn	72	1	0.086	ppb	11.46	1.00	
75 As	72	1	0.018	ppb	24.68	1.00	
78 Se	72	1	0.217	ppb	5.83	1.00	
95 Mo	72	1	0.009	ppb	79.01	1.00	
107 Ag	115	1	0.008	ppb	26.72	1.00	
111 Cd	115	1	0.015	ppb	20.96	1.00	
118 Sn	115	1	0.043	ppb	12.99	1.00	
121 Sb	115	1	0.020	ppb	10.91	1.00	
137 Ba	115	1	0.036	ppb	9.54	1.00	
205 Tl	165	1	0.031	ppb	14.87	1.00	
208 Pb	165	1	0.019	ppb	12.40	1.00	
232 Th	165	1	0.054	ppb	4.80	1.00	
238 U	165	1	0.015	ppb	8.94	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	702462	0.43	813856	86.3	30 - 120	
45 Sc	1	3022809	1.19	3365388	89.8	30 - 120	
72 Ge	1	1860439	0.93	2009611	92.6	30 - 120	
115 In	1	4784255	0.48	5142726	93.0	30 - 120	
165 Ho	1	8912961	0.60	9667228	92.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\077WASH.D\077WASH.D#
Date Acquired: Dec 28 2011 08:48 pm
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.003 ppb	18.64	1.30	
51 V	72	1	5.078 ppb	4.33	6.50	
52 Cr	72	1	2.033 ppb	2.88	2.60	
55 Mn	72	1	1.148 ppb	1.50	1.30	
59 Co	72	1	1.022 ppb	2.84	1.30	
60 Ni	72	1	2.027 ppb	5.08	2.60	
63 Cu	72	1	2.015 ppb	3.20	2.60	
66 Zn	72	1	10.280 ppb	3.75	13.00	
75 As	72	1	5.216 ppb	3.11	6.50	
78 Se	72	1	6.013 ppb	10.49	6.50	
95 Mo	72	1	2.031 ppb	1.96	2.60	
107 Ag	115	1	5.294 ppb	0.73	6.50	
111 Cd	115	1	1.085 ppb	6.16	1.30	
118 Sn	115	1	10.500 ppb	2.04	13.00	
121 Sb	115	1	2.084 ppb	1.87	2.60	
137 Ba	115	1	1.112 ppb	1.99	1.30	
205 Tl	165	1	1.062 ppb	1.52	1.30	
208 Pb	165	1	1.026 ppb	3.57	1.30	
232 Th	165	1	2.069 ppb	3.59	2.60	
238 U	165	1	1.004 ppb	4.26	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	702573	3.49	813856	86.3	30 - 120	
45 Sc	1	3032043	2.18	3365388	90.1	30 - 120	
72 Ge	1	1876860	1.21	2009611	93.4	30 - 120	
115 In	1	4794513	0.83	5142726	93.2	30 - 120	
165 Ho	1	8946901	1.36	9667228	92.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\078SMPL.D\078SMPL.D#
Date Acquired: Dec 28 2011 08:51 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-4-b
Misc Info:
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	2.86	2.86	ppb	6.05	3600	
51 V	72	1	147.90	147.90	ppb	2.02	3600	
52 Cr	72	1	82.73	82.73	ppb	1.27	3600	
55 Mn	72	1	1,754.00	1754.00	ppb	1.66	18000	
59 Co	72	1	39.07	39.07	ppb	2.59	3600	
60 Ni	72	1	83.05	83.05	ppb	1.89	3600	
63 Cu	72	1	56.22	56.22	ppb	1.24	3600	
66 Zn	72	1	250.70	250.70	ppb	1.26	3600	
75 As	72	1	15.45	15.45	ppb	1.62	3600	
78 Se	72	1	4.16	4.16	ppb	15.61	3600	
95 Mo	72	1	0.38	0.38	ppb	1.15	3600	
107 Ag	115	1	0.14	0.14	ppb	1.34	3600	
111 Cd	115	1	0.70	0.70	ppb	3.02	3600	
118 Sn	115	1	0.10	0.10	ppb	12.67	3600	
121 Sb	115	1	0.05	0.05	ppb	10.42	3600	
137 Ba	115	1	466.60	466.60	ppb	2.75	3600	
205 Tl	165	1	0.59	0.59	ppb	1.61	3600	
208 Pb	165	1	109.90	109.90	ppb	1.98	3600	
232 Th	165	1	26.84	26.84	ppb	3.03	1000	
238 U	165	1	3.39	3.39	ppb	2.78	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	656978	2.97	813856	80.7	30 - 120	
45 Sc	1	2896649	0.95	3365388	86.1	30 - 120	
72 Ge	1	1704344	0.22	2009611	84.8	30 - 120	
115 In	1	4303880	1.13	5142726	83.7	30 - 120	
165 Ho	1	8345741	0.54	9667228	86.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\079SMPL.D\079SMPL.D#
Date Acquired: Dec 28 2011 08:54 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-5-b
Misc Info:
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	2.03	2.03	ppb	11.05	3600	
51 V	72	1	104.80	104.80	ppb	0.56	3600	
52 Cr	72	1	56.09	56.09	ppb	0.59	3600	
55 Mn	72	1	1,156.00	1156.00	ppb	1.16	18000	
59 Co	72	1	23.86	23.86	ppb	1.15	3600	
60 Ni	72	1	52.99	52.99	ppb	1.02	3600	
63 Cu	72	1	36.17	36.17	ppb	1.84	3600	
66 Zn	72	1	160.10	160.10	ppb	1.58	3600	
75 As	72	1	10.98	10.98	ppb	0.22	3600	
78 Se	72	1	3.00	3.00	ppb	7.12	3600	
95 Mo	72	1	0.37	0.37	ppb	6.76	3600	
107 Ag	115	1	0.10	0.10	ppb	6.08	3600	
111 Cd	115	1	0.50	0.50	ppb	2.73	3600	
118 Sn	115	1	0.10	0.10	ppb	7.59	3600	
121 Sb	115	1	0.06	0.06	ppb	4.04	3600	
137 Ba	115	1	288.90	288.90	ppb	2.35	3600	
205 Tl	165	1	0.39	0.39	ppb	1.17	3600	
208 Pb	165	1	83.88	83.88	ppb	1.04	3600	
232 Th	165	1	17.55	17.55	ppb	2.05	1000	
238 U	165	1	2.28	2.28	ppb	1.87	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	663147	0.45	813856	81.5	30 - 120	
45 Sc	1	2895961	1.06	3365388	86.1	30 - 120	
72 Ge	1	1743343	0.89	2009611	86.8	30 - 120	
115 In	1	4374400	0.98	5142726	85.1	30 - 120	
165 Ho	1	8489105	0.39	9667228	87.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\080SMPL.D\080SMPL.D#
Date Acquired: Dec 28 2011 08:57 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-8-b
Misc Info:
Vial Number: 3106
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	3.37	3.37	ppb	11.72	3600	
51 V	72	1	176.50	176.50	ppb	3.22	3600	
52 Cr	72	1	102.90	102.90	ppb	3.29	3600	
55 Mn	72	1	2,634.00	2634.00	ppb	2.30	18000	
59 Co	72	1	43.68	43.68	ppb	2.36	3600	
60 Ni	72	1	102.70	102.70	ppb	1.91	3600	
63 Cu	72	1	65.19	65.19	ppb	2.52	3600	
66 Zn	72	1	335.50	335.50	ppb	2.48	3600	
75 As	72	1	19.27	19.27	ppb	2.33	3600	
78 Se	72	1	4.66	4.66	ppb	3.69	3600	
95 Mo	72	1	0.52	0.52	ppb	4.22	3600	
107 Ag	115	1	0.12	0.12	ppb	5.85	3600	
111 Cd	115	1	0.96	0.96	ppb	1.36	3600	
118 Sn	115	1	0.09	0.09	ppb	3.96	3600	
121 Sb	115	1	0.04	0.04	ppb	6.43	3600	
137 Ba	115	1	426.80	426.80	ppb	2.07	3600	
205 Tl	165	1	0.65	0.65	ppb	1.15	3600	
208 Pb	165	1	100.40	100.40	ppb	1.82	3600	
232 Th	165	1	29.48	29.48	ppb	2.61	1000	
238 U	165	1	4.56	4.56	ppb	2.37	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	645807	0.46	813856	79.4	30 - 120	
45 Sc	1	2939089	2.10	3365388	87.3	30 - 120	
72 Ge	1	1714189	0.92	2009611	85.3	30 - 120	
115 In	1	4286120	1.10	5142726	83.3	30 - 120	
165 Ho	1	8224788	2.75	9667228	85.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\081SMPL.D\081SMPL.D#
Date Acquired: Dec 28 2011 09:00 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-9-b
Misc Info:
Vial Number: 3107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	4.18	4.18	ppb	10.08	3600	
51 V	72	1	185.60	185.60	ppb	3.04	3600	
52 Cr	72	1	111.20	111.20	ppb	2.61	3600	
55 Mn	72	1	2,396.00	2396.00	ppb	3.30	18000	
59 Co	72	1	51.20	51.20	ppb	3.92	3600	
60 Ni	72	1	116.60	116.60	ppb	3.46	3600	
63 Cu	72	1	159.20	159.20	ppb	3.10	3600	
66 Zn	72	1	458.40	458.40	ppb	3.10	3600	
75 As	72	1	24.06	24.06	ppb	1.93	3600	
78 Se	72	1	6.11	6.11	ppb	10.55	3600	
95 Mo	72	1	0.68	0.68	ppb	4.31	3600	
107 Ag	115	1	0.19	0.19	ppb	3.20	3600	
111 Cd	115	1	1.03	1.03	ppb	5.22	3600	
118 Sn	115	1	0.11	0.11	ppb	12.45	3600	
121 Sb	115	1	0.17	0.17	ppb	4.39	3600	
137 Ba	115	1	433.50	433.50	ppb	2.53	3600	
205 Tl	165	1	0.78	0.78	ppb	1.02	3600	
208 Pb	165	1	640.20	640.20	ppb	0.55	3600	
232 Th	165	1	36.34	36.34	ppb	1.88	1000	
238 U	165	1	5.73	5.73	ppb	1.69	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	634846	2.88	813856	78.0	30 - 120	
45 Sc	1	2930301	1.38	3365388	87.1	30 - 120	
72 Ge	1	1695794	1.47	2009611	84.4	30 - 120	
115 In	1	4195602	0.42	5142726	81.6	30 - 120	
165 Ho	1	8072413	0.45	9667228	83.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\082_CCV.D\082_CCV.D#
Date Acquired: Dec 28 2011 09:02 pm
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	52.93	ppb	2.70	50	105.9	90 - 110	
51 V	72	1	52.45	ppb	2.51	50	104.9	90 - 110	
52 Cr	72	1	50.99	ppb	3.24	50	102.0	90 - 110	
55 Mn	72	1	52.52	ppb	1.36	50	105.0	90 - 110	
59 Co	72	1	51.74	ppb	2.99	50	103.5	90 - 110	
60 Ni	72	1	50.20	ppb	3.13	50	100.4	90 - 110	
63 Cu	72	1	51.28	ppb	1.90	50	102.6	90 - 110	
66 Zn	72	1	50.57	ppb	1.36	50	101.1	90 - 110	
75 As	72	1	51.27	ppb	1.42	50	102.5	90 - 110	
78 Se	72	1	52.56	ppb	1.21	50	105.1	90 - 110	
95 Mo	72	1	50.72	ppb	2.07	50	101.4	90 - 110	
107 Ag	115	1	51.91	ppb	1.40	50	103.8	90 - 110	
111 Cd	115	1	51.02	ppb	2.72	50	102.0	90 - 110	
118 Sn	115	1	51.11	ppb	3.03	50	102.2	90 - 110	
121 Sb	115	1	50.99	ppb	2.86	50	102.0	90 - 110	
137 Ba	115	1	53.02	ppb	2.21	50	106.0	90 - 110	
205 Tl	165	1	52.85	ppb	0.52	50	105.7	90 - 110	
208 Pb	165	1	51.11	ppb	1.86	50	102.2	90 - 110	
232 Th	165	1	52.09	ppb	3.75	50	104.2	90 - 110	
238 U	165	1	50.91	ppb	2.51	50	101.8	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	674091	1.67	813856	82.8	30 - 120	
45 Sc	1	2944077	0.35	3365388	87.5	30 - 120	
72 Ge	1	1839422	0.76	2009611	91.5	30 - 120	
115 In	1	4732581	0.74	5142726	92.0	30 - 120	
165 Ho	1	8732927	0.26	9667228	90.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\083_CCB.D\083_CCB.D#
Date Acquired: Dec 28 2011 09:05 pm
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.007	ppb	0.00	1.00	
51	V	72	1	0.012	ppb	76.52	1.00	
52	Cr	72	1	0.009	ppb	29.82	1.00	
55	Mn	72	1	0.142	ppb	1.63	1.00	
59	Co	72	1	0.010	ppb	18.71	1.00	
60	Ni	72	1	0.011	ppb	26.98	1.00	
63	Cu	72	1	0.007	ppb	49.40	1.00	
66	Zn	72	1	0.060	ppb	12.84	1.00	
75	As	72	1	0.020	ppb	38.34	1.00	
78	Se	72	1	0.240	ppb	132.57	1.00	
95	Mo	72	1	0.003	ppb	53.80	1.00	
107	Ag	115	1	0.010	ppb	23.78	1.00	
111	Cd	115	1	0.010	ppb	17.68	1.00	
118	Sn	115	1	0.049	ppb	10.35	1.00	
121	Sb	115	1	0.017	ppb	7.21	1.00	
137	Ba	115	1	0.028	ppb	4.68	1.00	
205	Tl	165	1	0.030	ppb	12.30	1.00	
208	Pb	165	1	0.030	ppb	10.92	1.00	
232	Th	165	1	0.054	ppb	9.17	1.00	
238	U	165	1	0.014	ppb	4.18	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	692420	1.27	813856	85.1	30 - 120	
45	Sc	1	2995272	1.09	3365388	89.0	30 - 120	
72	Ge	1	1859254	1.10	2009611	92.5	30 - 120	
115	In	1	4745934	0.69	5142726	92.3	30 - 120	
165	Ho	1	8734463	0.99	9667228	90.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\084WASH.D\084WASH.D#
Date Acquired: Dec 28 2011 09:08 pm
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.048 ppb	16.40	1.30	
51 V	72	1	5.031 ppb	1.74	6.50	
52 Cr	72	1	2.028 ppb	1.62	2.60	
55 Mn	72	1	1.168 ppb	3.05	1.30	
59 Co	72	1	1.021 ppb	3.37	1.30	
60 Ni	72	1	2.092 ppb	2.09	2.60	
63 Cu	72	1	2.038 ppb	0.30	2.60	
66 Zn	72	1	10.210 ppb	1.75	13.00	
75 As	72	1	5.271 ppb	1.05	6.50	
78 Se	72	1	5.290 ppb	7.16	6.50	
95 Mo	72	1	2.048 ppb	2.12	2.60	
107 Ag	115	1	5.276 ppb	1.21	6.50	
111 Cd	115	1	1.060 ppb	2.32	1.30	
118 Sn	115	1	10.290 ppb	1.53	13.00	
121 Sb	115	1	2.056 ppb	3.39	2.60	
137 Ba	115	1	1.082 ppb	1.72	1.30	
205 Tl	165	1	1.053 ppb	1.48	1.30	
208 Pb	165	1	1.028 ppb	1.97	1.30	
232 Th	165	1	2.065 ppb	2.87	2.60	
238 U	165	1	0.991 ppb	2.71	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	701960	2.90	813856	86.3	30 - 120	
45 Sc	1	3052312	0.88	3365388	90.7	30 - 120	
72 Ge	1	1871357	2.08	2009611	93.1	30 - 120	
115 In	1	4804832	0.57	5142726	93.4	30 - 120	
165 Ho	1	8874345	1.65	9667228	91.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\085SMPL.D\085SMPL.D#
Date Acquired: Dec 28 2011 09:11 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: BLANK
Misc Info: 6020 MDLV BLANK
Vial Number: 2410
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.00	0.00	ppb	1450.70	3600	
51 V	72	1	0.03	0.03	ppb	87.62	3600	
52 Cr	72	1	0.07	0.07	ppb	8.12	3600	
55 Mn	72	1	0.49	0.49	ppb	2.02	18000	
59 Co	72	1	0.02	0.02	ppb	8.78	3600	
60 Ni	72	1	0.03	0.03	ppb	33.16	3600	
63 Cu	72	1	0.10	0.10	ppb	8.52	3600	
66 Zn	72	1	1.19	1.19	ppb	0.97	3600	
75 As	72	1	0.04	0.04	ppb	21.42	3600	
78 Se	72	1	0.23	0.23	ppb	62.50	3600	
95 Mo	72	1	0.02	0.02	ppb	21.24	3600	
107 Ag	115	1	0.01	0.01	ppb	24.78	3600	
111 Cd	115	1	0.01	0.01	ppb	58.30	3600	
118 Sn	115	1	0.12	0.12	ppb	5.02	3600	
121 Sb	115	1	0.01	0.01	ppb	10.22	3600	
137 Ba	115	1	0.13	0.13	ppb	8.65	3600	
205 Tl	165	1	0.12	0.12	ppb	23.58	3600	
208 Pb	165	1	0.07	0.07	ppb	11.69	3600	
232 Th	165	1	0.04	0.04	ppb	12.84	1000	
238 U	165	1	0.04	0.04	ppb	9.59	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	702829	2.55	813856	86.4	30 - 120	
45 Sc	1	2990310	1.19	3365388	88.9	30 - 120	
72 Ge	1	1825929	1.21	2009611	90.9	30 - 120	
115 In	1	4665299	1.84	5142726	90.7	30 - 120	
165 Ho	1	8514737	1.68	9667228	88.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\086SMPL.D\086SMPL.D#
Date Acquired: Dec 28 2011 09:14 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: MDLV 1
Misc Info: 6020 MDLV
Vial Number: 2411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.24	0.24	ppb	3.83	3600	
51 V	72	1	1.19	1.19	ppb	4.95	3600	
52 Cr	72	1	1.73	1.73	ppb	3.17	3600	
55 Mn	72	1	1.42	1.42	ppb	8.33	18000	
59 Co	72	1	0.12	0.12	ppb	3.96	3600	
60 Ni	72	1	1.03	1.03	ppb	5.39	3600	
63 Cu	72	1	1.73	1.73	ppb	2.05	3600	
66 Zn	72	1	7.29	7.29	ppb	3.74	3600	
75 As	72	1	1.02	1.02	ppb	7.37	3600	
78 Se	72	1	2.06	2.06	ppb	27.34	3600	
95 Mo	72	1	0.46	0.46	ppb	8.57	3600	
107 Ag	115	1	0.12	0.12	ppb	8.44	3600	
111 Cd	115	1	0.16	0.16	ppb	9.80	3600	
118 Sn	115	1	2.21	2.21	ppb	2.70	3600	
121 Sb	115	1	0.58	0.58	ppb	0.97	3600	
137 Ba	115	1	1.28	1.28	ppb	3.00	3600	
205 Tl	165	1	0.13	0.13	ppb	3.39	3600	
208 Pb	165	1	0.60	0.60	ppb	5.14	3600	
232 Th	165	1	3.84	3.84	ppb	3.20	1000	
238 U	165	1	0.08	0.08	ppb	8.79	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	700951	2.29	813856	86.1	30 - 120	
45 Sc	1	3140299	3.06	3365388	93.3	30 - 120	
72 Ge	1	1824935	2.82	2009611	90.8	30 - 120	
115 In	1	4853965	1.86	5142726	94.4	30 - 120	
165 Ho	1	9013750	2.41	9667228	93.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\087SMPL.D\087SMPL.D#
Date Acquired: Dec 28 2011 09:17 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: MDLV 2
Misc Info: 6020 MDLV
Vial Number: 2412
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.23	0.23	ppb	12.03	3600	
51 V	72	1	1.14	1.14	ppb	3.05	3600	
52 Cr	72	1	1.78	1.78	ppb	2.81	3600	
55 Mn	72	1	1.34	1.34	ppb	3.18	18000	
59 Co	72	1	0.12	0.12	ppb	6.08	3600	
60 Ni	72	1	1.03	1.03	ppb	2.61	3600	
63 Cu	72	1	1.77	1.77	ppb	3.03	3600	
66 Zn	72	1	7.00	7.00	ppb	2.27	3600	
75 As	72	1	1.00	1.00	ppb	1.33	3600	
78 Se	72	1	2.43	2.43	ppb	21.63	3600	
95 Mo	72	1	0.45	0.45	ppb	0.59	3600	
107 Ag	115	1	0.11	0.11	ppb	3.90	3600	
111 Cd	115	1	0.15	0.15	ppb	8.62	3600	
118 Sn	115	1	2.18	2.18	ppb	1.10	3600	
121 Sb	115	1	0.59	0.59	ppb	1.51	3600	
137 Ba	115	1	1.05	1.05	ppb	0.95	3600	
205 Tl	165	1	0.12	0.12	ppb	1.56	3600	
208 Pb	165	1	0.58	0.58	ppb	3.09	3600	
232 Th	165	1	3.88	3.88	ppb	1.95	1000	
238 U	165	1	0.07	0.07	ppb	8.36	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	690860	1.56	813856	84.9	30 - 120	
45 Sc	1	3083505	1.55	3365388	91.6	30 - 120	
72 Ge	1	1796937	1.32	2009611	89.4	30 - 120	
115 In	1	4849172	1.88	5142726	94.3	30 - 120	
165 Ho	1	8904300	1.09	9667228	92.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\088SMPL.D\088SMPL.D#
Date Acquired: Dec 28 2011 09:20 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: BLANK
Misc Info: 200.8 MDLV BLANK
Vial Number: 2501
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	-0.01	-0.01	ppb	0.00	3600	
51 V	72	1	0.06	0.06	ppb	99.12	3600	
52 Cr	72	1	0.03	0.03	ppb	20.31	3600	
55 Mn	72	1	0.12	0.12	ppb	11.38	18000	
59 Co	72	1	0.00	0.00	ppb	258.93	3600	
60 Ni	72	1	0.02	0.02	ppb	64.84	3600	
63 Cu	72	1	0.08	0.08	ppb	16.50	3600	
66 Zn	72	1	1.21	1.21	ppb	4.21	3600	
75 As	72	1	0.14	0.14	ppb	12.14	3600	
78 Se	72	1	0.21	0.21	ppb	57.24	3600	
95 Mo	72	1	0.02	0.02	ppb	24.82	3600	
107 Ag	115	1	0.01	0.01	ppb	7.81	3600	
111 Cd	115	1	0.01	0.01	ppb	98.15	3600	
118 Sn	115	1	0.11	0.11	ppb	7.28	3600	
121 Sb	115	1	0.02	0.02	ppb	13.64	3600	
137 Ba	115	1	0.46	0.46	ppb	6.79	3600	
205 Tl	165	1	0.03	0.03	ppb	23.71	3600	
208 Pb	165	1	0.04	0.04	ppb	9.41	3600	
232 Th	165	1	0.01	0.01	ppb	20.59	1000	
238 U	165	1	0.00	0.00	ppb	165.58	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	707174	1.79	813856	86.9	30 - 120	
45 Sc	1	3066204	0.73	3365388	91.1	30 - 120	
72 Ge	1	1886539	0.73	2009611	93.9	30 - 120	
115 In	1	4905740	1.02	5142726	95.4	30 - 120	
165 Ho	1	8892815	1.32	9667228	92.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\089SMPL.D\089SMPL.D#
Date Acquired: Dec 28 2011 09:23 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: MDLV 1
Misc Info: 200.8 MDLV
Vial Number: 2502
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.32	0.32	ppb	10.36	3600	
51 V	72	1	2.47	2.47	ppb	3.91	3600	
52 Cr	72	1	1.78	1.78	ppb	1.67	3600	
55 Mn	72	1	1.34	1.34	ppb	1.82	18000	
59 Co	72	1	0.13	0.13	ppb	4.01	3600	
60 Ni	72	1	0.72	0.72	ppb	1.54	3600	
63 Cu	72	1	0.69	0.69	ppb	2.64	3600	
66 Zn	72	1	5.76	5.76	ppb	1.10	3600	
75 As	72	1	1.31	1.31	ppb	5.55	3600	
78 Se	72	1	2.65	2.65	ppb	18.93	3600	
95 Mo	72	1	0.11	0.11	ppb	8.29	3600	
107 Ag	115	1	0.06	0.06	ppb	6.83	3600	
111 Cd	115	1	0.11	0.11	ppb	12.58	3600	
118 Sn	115	1	0.47	0.47	ppb	5.83	3600	
121 Sb	115	1	0.39	0.39	ppb	4.98	3600	
137 Ba	115	1	0.95	0.95	ppb	2.16	3600	
205 Tl	165	1	0.19	0.19	ppb	1.38	3600	
208 Pb	165	1	0.29	0.29	ppb	1.59	3600	
232 Th	165	1	0.27	0.27	ppb	6.24	1000	
238 U	165	1	0.08	0.08	ppb	2.14	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	671005	0.95	813856	82.4	30 - 120	
45 Sc	1	2774619	0.40	3365388	82.4	30 - 120	
72 Ge	1	1738045	0.40	2009611	86.5	30 - 120	
115 In	1	4539255	0.04	5142726	88.3	30 - 120	
165 Ho	1	8398450	0.35	9667228	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\090SMPL.D\090SMPL.D#
Date Acquired: Dec 28 2011 09:26 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: MDLV 2
Misc Info: 200.8 MDLV
Vial Number: 2503
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.38	0.38	ppb	15.73	3600	
51 V	72	1	2.66	2.66	ppb	1.60	3600	
52 Cr	72	1	1.93	1.93	ppb	2.43	3600	
55 Mn	72	1	1.40	1.40	ppb	3.00	18000	
59 Co	72	1	0.13	0.13	ppb	1.34	3600	
60 Ni	72	1	0.72	0.72	ppb	2.75	3600	
63 Cu	72	1	0.69	0.69	ppb	4.71	3600	
66 Zn	72	1	5.91	5.91	ppb	0.35	3600	
75 As	72	1	1.39	1.39	ppb	3.10	3600	
78 Se	72	1	2.83	2.83	ppb	14.72	3600	
95 Mo	72	1	0.12	0.12	ppb	12.15	3600	
107 Ag	115	1	0.07	0.07	ppb	7.47	3600	
111 Cd	115	1	0.11	0.11	ppb	5.41	3600	
118 Sn	115	1	0.49	0.49	ppb	3.83	3600	
121 Sb	115	1	0.39	0.39	ppb	2.86	3600	
137 Ba	115	1	0.97	0.97	ppb	1.78	3600	
205 Tl	165	1	0.19	0.19	ppb	1.05	3600	
208 Pb	165	1	0.29	0.29	ppb	2.74	3600	
232 Th	165	1	0.28	0.28	ppb	7.31	1000	
238 U	165	1	0.08	0.08	ppb	1.96	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	640424	0.65	813856	78.7	30 - 120	
45 Sc	1	2750344	1.79	3365388	81.7	30 - 120	
72 Ge	1	1712202	1.07	2009611	85.2	30 - 120	
115 In	1	4499780	1.51	5142726	87.5	30 - 120	
165 Ho	1	8348710	0.60	9667228	86.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\091SMPL.D\091SMPL.D#
Date Acquired: Dec 28 2011 09:29 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: BLANK
Misc Info: SOIL MDLV BLANK
Vial Number: 2504
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.00	0.00	ppb	272.84	3600	
51 V	72	1	0.01	0.01	ppb	521.55	3600	
52 Cr	72	1	0.10	0.10	ppb	99.36	3600	
55 Mn	72	1	0.25	0.25	ppb	4.14	18000	
59 Co	72	1	0.00	0.00	ppb	81.77	3600	
60 Ni	72	1	0.03	0.03	ppb	11.48	3600	
63 Cu	72	1	0.22	0.22	ppb	4.00	3600	
66 Zn	72	1	0.24	0.24	ppb	7.11	3600	
75 As	72	1	0.00	0.00	ppb	76.07	3600	
78 Se	72	1	0.24	0.24	ppb	57.59	3600	
95 Mo	72	1	-0.01	-0.01	ppb	31.00	3600	
107 Ag	115	1	0.00	0.00	ppb	20.44	3600	
111 Cd	115	1	0.00	0.00	ppb	161.04	3600	
118 Sn	115	1	0.08	0.08	ppb	7.32	3600	
121 Sb	115	1	0.00	0.00	ppb	49.22	3600	
137 Ba	115	1	0.12	0.12	ppb	11.86	3600	
205 Tl	165	1	0.00	0.00	ppb	63.45	3600	
208 Pb	165	1	0.10	0.10	ppb	1.61	3600	
232 Th	165	1	0.00	0.00	ppb	38.27	1000	
238 U	165	1	0.00	0.00	ppb	18.81	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	647520	0.65	813856	79.6	30 - 120	
45 Sc	1	2845273	1.41	3365388	84.5	30 - 120	
72 Ge	1	1812743	1.20	2009611	90.2	30 - 120	
115 In	1	4628522	0.66	5142726	90.0	30 - 120	
165 Ho	1	8645268	0.96	9667228	89.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\092SMPL.D\092SMPL.D#
Date Acquired: Dec 28 2011 09:32 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: MDLV 1
Misc Info: SOIL MDLV
Vial Number: 2505
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.14	0.14	ppb	70.23	3600	
51 V	72	1	0.22	0.22	ppb	13.42	3600	
52 Cr	72	1	0.40	0.40	ppb	5.44	3600	
55 Mn	72	1	0.35	0.35	ppb	5.17	18000	
59 Co	72	1	0.03	0.03	ppb	9.78	3600	
60 Ni	72	1	0.19	0.19	ppb	12.37	3600	
63 Cu	72	1	0.64	0.64	ppb	5.84	3600	
66 Zn	72	1	2.00	2.00	ppb	0.29	3600	
75 As	72	1	0.32	0.32	ppb	11.66	3600	
78 Se	72	1	0.60	0.60	ppb	30.30	3600	
95 Mo	72	1	0.10	0.10	ppb	20.80	3600	
107 Ag	115	1	0.12	0.12	ppb	11.36	3600	
111 Cd	115	1	0.05	0.05	ppb	16.19	3600	
118 Sn	115	1	0.41	0.41	ppb	3.69	3600	
121 Sb	115	1	0.08	0.08	ppb	8.02	3600	
137 Ba	115	1	0.57	0.57	ppb	1.64	3600	
205 Tl	165	1	0.02	0.02	ppb	11.76	3600	
208 Pb	165	1	0.21	0.21	ppb	2.04	3600	
232 Th	165	1	0.18	0.18	ppb	3.64	1000	
238 U	165	1	0.01	0.01	ppb	4.83	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	649097	2.16	813856	79.8	30 - 120	
45 Sc	1	2834589	2.18	3365388	84.2	30 - 120	
72 Ge	1	1793875	1.95	2009611	89.3	30 - 120	
115 In	1	4631429	2.07	5142726	90.1	30 - 120	
165 Ho	1	8617069	1.73	9667228	89.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\093SMPL.D\093SMPL.D#
Date Acquired: Dec 28 2011 09:35 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: MDLV 2
Misc Info: SOIL MDLV
Vial Number: 2506
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.16	0.16	ppb	24.88	3600	
51 V	72	1	0.20	0.20	ppb	12.51	3600	
52 Cr	72	1	0.39	0.39	ppb	6.41	3600	
55 Mn	72	1	0.23	0.23	ppb	3.44	18000	
59 Co	72	1	0.03	0.03	ppb	6.37	3600	
60 Ni	72	1	0.18	0.18	ppb	7.56	3600	
63 Cu	72	1	0.62	0.62	ppb	0.61	3600	
66 Zn	72	1	2.07	2.07	ppb	5.34	3600	
75 As	72	1	0.29	0.29	ppb	8.85	3600	
78 Se	72	1	0.78	0.78	ppb	18.57	3600	
95 Mo	72	1	0.10	0.10	ppb	17.19	3600	
107 Ag	115	1	0.12	0.12	ppb	3.91	3600	
111 Cd	115	1	0.07	0.07	ppb	20.35	3600	
118 Sn	115	1	0.41	0.41	ppb	4.63	3600	
121 Sb	115	1	0.08	0.08	ppb	9.08	3600	
137 Ba	115	1	0.52	0.52	ppb	3.06	3600	
205 Tl	165	1	0.02	0.02	ppb	8.88	3600	
208 Pb	165	1	0.21	0.21	ppb	1.81	3600	
232 Th	165	1	0.19	0.19	ppb	3.65	1000	
238 U	165	1	0.01	0.01	ppb	7.01	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	650342	0.83	813856	79.9	30 - 120	
45 Sc	1	2821832	1.28	3365388	83.8	30 - 120	
72 Ge	1	1777070	1.09	2009611	88.4	30 - 120	
115 In	1	4573974	0.39	5142726	88.9	30 - 120	
165 Ho	1	8462767	0.47	9667228	87.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\094_CCV.D\094_CCV.D#
Date Acquired: Dec 28 2011 09:38 pm
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	53.20	ppb	1.35	50	106.4	90 - 110	
51 V	72	1	51.46	ppb	1.62	50	102.9	90 - 110	
52 Cr	72	1	50.62	ppb	1.04	50	101.2	90 - 110	
55 Mn	72	1	52.62	ppb	0.74	50	105.2	90 - 110	
59 Co	72	1	52.08	ppb	1.30	50	104.2	90 - 110	
60 Ni	72	1	50.24	ppb	0.77	50	100.5	90 - 110	
63 Cu	72	1	51.44	ppb	0.49	50	102.9	90 - 110	
66 Zn	72	1	50.57	ppb	0.66	50	101.1	90 - 110	
75 As	72	1	51.69	ppb	0.82	50	103.4	90 - 110	
78 Se	72	1	53.72	ppb	1.39	50	107.4	90 - 110	
95 Mo	72	1	51.31	ppb	0.45	50	102.6	90 - 110	
107 Ag	115	1	51.41	ppb	1.13	50	102.8	90 - 110	
111 Cd	115	1	50.77	ppb	0.81	50	101.5	90 - 110	
118 Sn	115	1	51.04	ppb	0.76	50	102.1	90 - 110	
121 Sb	115	1	51.25	ppb	1.12	50	102.5	90 - 110	
137 Ba	115	1	53.69	ppb	0.97	50	107.4	90 - 110	
205 Tl	165	1	53.20	ppb	0.95	50	106.4	90 - 110	
208 Pb	165	1	51.71	ppb	0.97	50	103.4	90 - 110	
232 Th	165	1	52.23	ppb	3.39	50	104.5	90 - 110	
238 U	165	1	51.65	ppb	1.39	50	103.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	654575	1.17	813856	80.4	30 - 120	
45 Sc	1	2907833	0.95	3365388	86.4	30 - 120	
72 Ge	1	1809745	1.42	2009611	90.1	30 - 120	
115 In	1	4699674	0.87	5142726	91.4	30 - 120	
165 Ho	1	8724636	0.22	9667228	90.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\095_CCB.D\095_CCB.D#
Date Acquired: Dec 28 2011 09:40 pm
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.001	ppb	491.48	1.00	
51 V	72	1	0.002	ppb	209.33	1.00	
52 Cr	72	1	0.004	ppb	139.21	1.00	
55 Mn	72	1	0.051	ppb	25.14	1.00	
59 Co	72	1	0.004	ppb	14.08	1.00	
60 Ni	72	1	0.008	ppb	53.70	1.00	
63 Cu	72	1	-0.002	ppb	402.00	1.00	
66 Zn	72	1	0.031	ppb	20.09	1.00	
75 As	72	1	0.002	ppb	265.29	1.00	
78 Se	72	1	0.142	ppb	106.47	1.00	
95 Mo	72	1	0.000	ppb	1475.90	1.00	
107 Ag	115	1	0.010	ppb	33.59	1.00	
111 Cd	115	1	0.012	ppb	14.93	1.00	
118 Sn	115	1	0.042	ppb	2.42	1.00	
121 Sb	115	1	0.013	ppb	13.86	1.00	
137 Ba	115	1	0.008	ppb	29.56	1.00	
205 Tl	165	1	0.025	ppb	11.74	1.00	
208 Pb	165	1	0.012	ppb	14.87	1.00	
232 Th	165	1	0.073	ppb	4.06	1.00	
238 U	165	1	0.012	ppb	12.73	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	652356	1.39	813856	80.2	30 - 120	
45 Sc	1	2883374	1.90	3365388	85.7	30 - 120	
72 Ge	1	1799075	1.49	2009611	89.5	30 - 120	
115 In	1	4718262	2.53	5142726	91.7	30 - 120	
165 Ho	1	8558689	1.27	9667228	88.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :Max. Number of Failures Allowed
0 :ISTD Failures
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\096WASH.D\096WASH.D#
Date Acquired: Dec 28 2011 09:43 pm
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.006 ppb	7.00	1.30	
51 V	72	1	5.121 ppb	1.56	6.50	
52 Cr	72	1	2.048 ppb	1.46	2.60	
55 Mn	72	1	1.137 ppb	2.82	1.30	
59 Co	72	1	1.039 ppb	0.66	1.30	
60 Ni	72	1	2.056 ppb	0.63	2.60	
63 Cu	72	1	2.052 ppb	4.71	2.60	
66 Zn	72	1	10.510 ppb	1.88	13.00	
75 As	72	1	5.391 ppb	1.27	6.50	
78 Se	72	1	5.849 ppb	1.87	6.50	
95 Mo	72	1	2.122 ppb	0.74	2.60	
107 Ag	115	1	5.293 ppb	1.48	6.50	
111 Cd	115	1	1.081 ppb	3.43	1.30	
118 Sn	115	1	10.540 ppb	3.24	13.00	
121 Sb	115	1	2.092 ppb	2.70	2.60	
137 Ba	115	1	1.069 ppb	2.84	1.30	
205 Tl	165	1	1.081 ppb	1.36	1.30	
208 Pb	165	1	1.039 ppb	2.28	1.30	
232 Th	165	1	2.089 ppb	4.42	2.60	
238 U	165	1	1.022 ppb	3.61	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	644549	1.00	813856	79.2	30 - 120	
45 Sc	1	2894131	1.06	3365388	86.0	30 - 120	
72 Ge	1	1800733	1.44	2009611	89.6	30 - 120	
115 In	1	4684740	0.70	5142726	91.1	30 - 120	
165 Ho	1	8642916	1.18	9667228	89.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\097_BLK.D\097_BLK.D#
Date Acquired: Dec 28 2011 09:46 pm
Operator: LRD
Sample Name: mb 280-100934/1-a
Misc Info: BLANK 100934 Soil/DoD4/6020A
Vial Number: 2507
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.003 ppb	275.31	2.00	
51 V	72	1	0.003 ppb	381.02	2.00	
52 Cr	72	1	0.033 ppb	32.72	2.00	
55 Mn	72	1	0.060 ppb	22.61	2.00	
59 Co	72	1	0.009 ppb	15.21	2.00	
60 Ni	72	1	0.027 ppb	12.02	2.00	
63 Cu	72	1	0.062 ppb	2.50	2.00	
66 Zn	72	1	0.158 ppb	5.26	2.00	
75 As	72	1	0.005 ppb	107.60	2.00	
78 Se	72	1	0.401 ppb	49.30	2.00	
95 Mo	72	1	-0.004 ppb	147.36	2.00	
107 Ag	115	1	0.006 ppb	41.98	2.00	
111 Cd	115	1	0.006 ppb	16.94	2.00	
118 Sn	115	1	0.118 ppb	17.22	2.00	
121 Sb	115	1	0.003 ppb	38.95	2.00	
137 Ba	115	1	0.041 ppb	10.91	2.00	
205 Tl	165	1	0.010 ppb	12.01	2.00	
208 Pb	165	1	0.071 ppb	3.46	2.00	
232 Th	165	1	0.028 ppb	10.13	2.00	
238 U	165	1	0.003 ppb	10.75	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	648443	1.76	813856	79.7	30 - 120	
45 Sc	1	2821323	2.40	3365388	83.8	30 - 120	
72 Ge	1	1777123	1.48	2009611	88.4	30 - 120	
115 In	1	4525172	0.98	5142726	88.0	30 - 120	
165 Ho	1	8373581	0.66	9667228	86.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\098_LCS.D\098_LCS.D#
Date Acquired: Dec 28 2011 09:49 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-100934/2-a
Misc Info: LCS
Vial Number: 2508
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	41.28	3.12	40	103.2	80 - 120	
51 V	72	1	41.16	3.14	40	102.9	80 - 120	
52 Cr	72	1	40.82	2.92	40	102.1	80 - 120	
55 Mn	72	1	41.29	3.98	40	103.2	80 - 120	
59 Co	72	1	40.80	1.44	40	102.0	80 - 120	
60 Ni	72	1	39.57	1.33	40	98.9	80 - 120	
63 Cu	72	1	40.19	1.19	40	100.5	80 - 120	
66 Zn	72	1	38.91	1.23	40	97.3	80 - 120	
75 As	72	1	40.98	0.70	40	102.5	80 - 120	
78 Se	72	1	42.31	2.77	40	105.8	80 - 120	
95 Mo	72	1	40.63	1.45	40	101.6	80 - 120	
107 Ag	115	1	42.55	2.18	40	106.4	80 - 120	
111 Cd	115	1	40.59	2.09	40	101.5	80 - 120	
118 Sn	115	1	41.01	2.66	40	102.5	80 - 120	
121 Sb	115	1	40.26	2.74	40	100.7	80 - 120	
137 Ba	115	1	43.02	2.50	40	107.6	80 - 120	
205 Tl	165	1	42.21	2.02	40	105.5	80 - 120	
208 Pb	165	1	41.92	2.93	40	104.8	80 - 120	
232 Th	165	1	41.92	4.27	40	104.8	80 - 120	
238 U	165	1	41.97	4.06	40	104.9	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	658080	0.92	813856	80.9	30 - 120	
45 Sc	1	2860086	0.62	3365388	85.0	30 - 120	
72 Ge	1	1784576	1.38	2009611	88.8	30 - 120	
115 In	1	4593450	1.29	5142726	89.3	30 - 120	
165 Ho	1	8458743	0.57	9667228	87.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\099SMPL.D\099SMPL.D#
Date Acquired: Dec 28 2011 09:52 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-1-b
Misc Info:
Vial Number: 2509
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	3.39	3.39	ppb	5.26	3600	
51 V	72	1	172.80	172.80	ppb	2.67	3600	
52 Cr	72	1	97.23	97.23	ppb	3.48	3600	
55 Mn	72	1	1,850.00	1850.00	ppb	2.64	18000	
59 Co	72	1	42.32	42.32	ppb	2.42	3600	
60 Ni	72	1	100.60	100.60	ppb	1.52	3600	
63 Cu	72	1	206.70	206.70	ppb	2.30	3600	
66 Zn	72	1	360.70	360.70	ppb	1.80	3600	
75 As	72	1	21.08	21.08	ppb	1.16	3600	
78 Se	72	1	5.12	5.12	ppb	8.48	3600	
95 Mo	72	1	0.46	0.46	ppb	4.25	3600	
107 Ag	115	1	0.22	0.22	ppb	2.86	3600	
111 Cd	115	1	0.70	0.70	ppb	5.02	3600	
118 Sn	115	1	0.16	0.16	ppb	8.43	3600	
121 Sb	115	1	0.55	0.55	ppb	2.32	3600	
137 Ba	115	1	358.90	358.90	ppb	0.91	3600	
205 Tl	165	1	0.77	0.77	ppb	0.61	3600	
208 Pb	165	1	2,805.00	2805.00	ppb	2.58	3600	
232 Th	165	1	31.92	31.92	ppb	4.13	1000	
238 U	165	1	5.51	5.51	ppb	3.74	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	602643	0.65	813856	74.0	30 - 120	
45 Sc	1	2855520	1.10	3365388	84.8	30 - 120	
72 Ge	1	1677756	0.72	2009611	83.5	30 - 120	
115 In	1	4189548	0.56	5142726	81.5	30 - 120	
165 Ho	1	8052489	1.28	9667228	83.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\100AREF.D\100AREF.D#
Date Acquired: Dec 28 2011 09:55 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-2-d
Misc Info:
Vial Number: 2510
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	2.25	2.25	ppb	6.60	3600	
51 V	72	1	111.90	111.90	ppb	3.22	3600	
52 Cr	72	1	61.11	61.11	ppb	3.09	3600	
55 Mn	72	1	1,212.00	1212.00	ppb	2.67	18000	
59 Co	72	1	27.69	27.69	ppb	3.19	3600	
60 Ni	72	1	59.10	59.10	ppb	1.75	3600	
63 Cu	72	1	41.54	41.54	ppb	1.27	3600	
66 Zn	72	1	184.00	184.00	ppb	1.89	3600	
75 As	72	1	13.48	13.48	ppb	3.93	3600	
78 Se	72	1	3.45	3.45	ppb	14.83	3600	
95 Mo	72	1	0.44	0.44	ppb	4.55	3600	
107 Ag	115	1	0.11	0.11	ppb	14.85	3600	
111 Cd	115	1	0.64	0.64	ppb	8.42	3600	
118 Sn	115	1	0.12	0.12	ppb	11.79	3600	
121 Sb	115	1	0.05	0.05	ppb	17.02	3600	
137 Ba	115	1	315.60	315.60	ppb	3.03	3600	
205 Tl	165	1	0.44	0.44	ppb	0.40	3600	
208 Pb	165	1	89.60	89.60	ppb	0.43	3600	
232 Th	165	1	20.42	20.42	ppb	2.40	1000	
238 U	165	1	2.63	2.63	ppb	1.08	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	605710	1.22	813856	74.4	30 - 120	
45 Sc	1	2744667	1.34	3365388	81.6	30 - 120	
72 Ge	1	1670344	0.76	2009611	83.1	30 - 120	
115 In	1	4223070	1.06	5142726	82.1	30 - 120	
165 Ho	1	8067956	1.22	9667228	83.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\101SDIL.D\101SDIL.D#
Date Acquired: Dec 28 2011 09:59 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-2-d SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2511
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG122811.B\100AREF.D\100AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.43	ppb	5.15	0.45	96.0	90 - 110	
51 V	72	1	21.68	ppb	1.13	22.38	96.9	90 - 110	
52 Cr	72	1	11.83	ppb	2.36	12.22	96.8	90 - 110	
55 Mn	72	1	244.90	ppb	2.40	242.40	101.0	90 - 110	
59 Co	72	1	5.49	ppb	2.07	5.54	99.1	90 - 110	
60 Ni	72	1	11.92	ppb	1.20	11.82	100.8	90 - 110	
63 Cu	72	1	8.48	ppb	1.27	8.31	102.1	90 - 110	
66 Zn	72	1	37.33	ppb	0.90	36.80	101.4	90 - 110	
75 As	72	1	2.72	ppb	2.35	2.70	101.0	90 - 110	
78 Se	72	1	0.85	ppb	33.34	0.69	123.3	90 - 110	
95 Mo	72	1	0.09	ppb	12.72	0.09	100.8	90 - 110	
107 Ag	115	1	0.02	ppb	20.07	0.02	106.7	90 - 110	
111 Cd	115	1	0.14	ppb	19.42	0.13	107.2	90 - 110	
118 Sn	115	1	0.05	ppb	16.05	0.02	209.2	90 - 110	
121 Sb	115	1	0.01	ppb	19.52	0.01	60.0	90 - 110	
137 Ba	115	1	58.91	ppb	1.61	63.12	93.3	90 - 110	
205 Tl	165	1	0.09	ppb	5.44	0.09	100.5	90 - 110	
208 Pb	165	1	17.89	ppb	1.73	17.92	99.8	90 - 110	
232 Th	165	1	3.99	ppb	2.64	4.08	97.6	90 - 110	
238 U	165	1	0.52	ppb	2.77	0.53	98.2	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	620379	2.47	813856	76.2	30 - 120	
45 Sc	1	2831909	1.17	3365388	84.1	30 - 120	
72 Ge	1	1739946	0.69	2009611	86.6	30 - 120	
115 In	1	4515315	1.77	5142726	87.8	30 - 120	
165 Ho	1	8324972	0.52	9667228	86.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\102PDS.D\102PDS.D#
Date Acquired: Dec 28 2011 10:02 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-2-d PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 2512
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	211.30	2.24	ppb	2.90	200	104.5	75 - 125	
51 V	72	1	296.30	111.90	ppb	2.50	200	95.0	75 - 125	
52 Cr	72	1	247.90	61.11	ppb	1.87	200	94.9	75 - 125	
55 Mn	72	1	1354.00	1212.00	ppb	2.55	200	95.9	75 - 125	
59 Co	72	1	217.80	27.69	ppb	2.22	200	95.7	75 - 125	
60 Ni	72	1	251.50	59.10	ppb	1.60	200	97.1	75 - 125	
63 Cu	72	1	227.00	41.54	ppb	2.28	200	94.0	75 - 125	
66 Zn	72	1	373.40	184.00	ppb	1.47	200	97.2	75 - 125	
75 As	72	1	213.30	13.48	ppb	0.70	200	99.9	75 - 125	
78 Se	72	1	201.90	3.45	ppb	0.43	200	99.2	75 - 125	
95 Mo	72	1	208.90	0.44	ppb	2.15	200	104.2	75 - 125	
107 Ag	115	1	52.04	0.11	ppb	2.30	50	103.8	75 - 125	
111 Cd	115	1	204.90	0.64	ppb	1.59	200	102.1	75 - 125	
118 Sn	115	1	211.40	0.12	ppb	1.21	200	105.6	75 - 125	
121 Sb	115	1	209.50	0.05	ppb	3.43	200	104.7	75 - 125	
137 Ba	115	1	523.20	315.60	ppb	1.36	200	101.5	75 - 125	
205 Tl	165	1	201.30	0.44	ppb	1.51	200	100.4	75 - 125	
208 Pb	165	1	281.30	89.60	ppb	2.32	200	97.1	75 - 125	
232 Th	165	1	19.21	20.42	ppb	3.61	200	8.7	75 - 125	
238 U	165	1	199.50	2.63	ppb	2.33	200	98.5	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	604063	2.20	813856	74.2	30 - 120	
45 Sc	1	2748832	0.50	3365388	81.7	30 - 120	
72 Ge	1	1672237	1.12	2009611	83.2	30 - 120	
115 In	1	4212896	1.65	5142726	81.9	30 - 120	
165 Ho	1	8064535	1.09	9667228	83.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\103_MS.D\103_MS.D#
Date Acquired: Dec 28 2011 10:05 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-2-e ms
Misc Info: MATRIX SPIKE
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	41.66	2.24	ppb	2.24	40	98.6	50 - 150	
51 V	72	1	166.70	111.90	ppb	2.66	40	109.7	50 - 150	
52 Cr	72	1	108.60	61.11	ppb	2.21	40	107.4	50 - 150	
55 Mn	72	1	1284.00	1212.00	ppb	2.56	40	102.6	50 - 150	
59 Co	72	1	67.32	27.69	ppb	3.01	40	99.5	50 - 150	
60 Ni	72	1	100.70	59.10	ppb	2.40	40	101.6	50 - 150	
63 Cu	72	1	82.19	41.54	ppb	2.07	40	100.8	50 - 150	
66 Zn	72	1	236.90	184.00	ppb	1.83	40	105.8	50 - 150	
75 As	72	1	49.89	13.48	ppb	2.26	40	93.3	50 - 150	
78 Se	72	1	39.99	3.45	ppb	3.66	40	92.0	50 - 150	
95 Mo	72	1	21.46	0.44	ppb	1.91	40	53.1	50 - 150	
107 Ag	115	1	36.70	0.11	ppb	2.43	40	91.5	50 - 150	
111 Cd	115	1	39.51	0.64	ppb	3.47	40	97.2	50 - 150	
118 Sn	115	1	1.08	0.12	ppb	5.52	40	2.7	50 - 150	
121 Sb	115	1	0.56	0.05	ppb	3.41	40	1.4	50 - 150	
137 Ba	115	1	396.20	315.60	ppb	2.37	40	111.4	50 - 150	
205 Tl	165	1	38.75	0.44	ppb	0.76	40	95.8	50 - 150	
208 Pb	165	1	126.30	89.60	ppb	2.31	40	97.5	50 - 150	
232 Th	165	1	62.16	20.42	ppb	3.00	40	102.9	50 - 150	
238 U	165	1	42.87	2.63	ppb	3.24	40	100.6	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	615115	0.20	813856	75.6	30 - 120	
45 Sc	1	2793379	1.30	3365388	83.0	30 - 120	
72 Ge	1	1679087	2.47	2009611	83.6	30 - 120	
115 In	1	4201116	1.58	5142726	81.7	30 - 120	
165 Ho	1	8013035	1.50	9667228	82.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\104_MSD.D\104_MSD.D#
Date Acquired: Dec 28 2011 10:08 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-2-f msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\103_MS.D\103_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	44.16	ppb	1.86	41.66	5.83	20	
51 V	72	1	169.50	ppb	1.67	166.70	1.67	20	
52 Cr	72	1	110.50	ppb	1.69	108.60	1.73	20	
55 Mn	72	1	1505.00	ppb	1.35	1284.00	15.85	20	
59 Co	72	1	72.01	ppb	0.22	67.32	6.73	20	
60 Ni	72	1	104.10	ppb	1.52	100.70	3.32	20	
63 Cu	72	1	82.92	ppb	1.06	82.19	0.88	20	
66 Zn	72	1	241.20	ppb	0.85	236.90	1.80	20	
75 As	72	1	51.48	ppb	0.62	49.89	3.14	20	
78 Se	72	1	42.40	ppb	0.84	39.99	5.85	20	
95 Mo	72	1	21.88	ppb	1.61	21.46	1.94	20	
107 Ag	115	1	38.31	ppb	0.75	36.70	4.29	20	
111 Cd	115	1	41.36	ppb	0.23	39.51	4.58	20	
118 Sn	115	1	1.08	ppb	1.17	1.08	0.37	20	
121 Sb	115	1	0.52	ppb	4.34	0.56	7.59	20	
137 Ba	115	1	419.30	ppb	0.82	396.20	5.67	20	
205 Tl	165	1	40.37	ppb	1.49	38.75	4.10	20	
208 Pb	165	1	134.50	ppb	0.47	126.30	6.29	20	
232 Th	165	1	63.77	ppb	1.23	62.16	2.56	20	
238 U	165	1	44.62	ppb	1.85	42.87	4.00	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	594146	1.72	813856	73.0	30 - 120	
45 Sc	1	2757315	1.43	3365388	81.9	30 - 120	
72 Ge	1	1659675	0.93	2009611	82.6	30 - 120	
115 In	1	4148630	0.85	5142726	80.7	30 - 120	
165 Ho	1	7906581	0.65	9667228	81.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\105SMPL.D\105SMPL.D#
Date Acquired: Dec 28 2011 10:10 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23818-a-3-b
Misc Info:
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	4.45	4.45	ppb	4.95	3600	
51 V	72	1	218.70	218.70	ppb	1.86	3600	
52 Cr	72	1	118.40	118.40	ppb	1.74	3600	
55 Mn	72	1	1,924.00	1924.00	ppb	1.65	18000	
59 Co	72	1	58.69	58.69	ppb	1.90	3600	
60 Ni	72	1	103.90	103.90	ppb	1.74	3600	
63 Cu	72	1	55.98	55.98	ppb	3.07	3600	
66 Zn	72	1	264.20	264.20	ppb	1.38	3600	
75 As	72	1	18.81	18.81	ppb	0.98	3600	
78 Se	72	1	6.26	6.26	ppb	9.54	3600	
95 Mo	72	1	0.50	0.50	ppb	2.30	3600	
107 Ag	115	1	0.17	0.17	ppb	4.88	3600	
111 Cd	115	1	0.74	0.74	ppb	1.90	3600	
118 Sn	115	1	0.08	0.08	ppb	18.32	3600	
121 Sb	115	1	0.02	0.02	ppb	18.27	3600	
137 Ba	115	1	784.10	784.10	ppb	1.55	3600	
205 Tl	165	1	0.72	0.72	ppb	0.61	3600	
208 Pb	165	1	83.28	83.28	ppb	1.22	3600	
232 Th	165	1	30.32	30.32	ppb	2.07	1000	
238 U	165	1	2.94	2.94	ppb	1.86	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	582222	0.94	813856	71.5	30 - 120	
45 Sc	1	2835401	1.07	3365388	84.3	30 - 120	
72 Ge	1	1657487	0.28	2009611	82.5	30 - 120	
115 In	1	4085921	0.40	5142726	79.5	30 - 120	
165 Ho	1	7820910	0.80	9667228	80.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\106_CCV.D\106_CCV.D#
Date Acquired: Dec 28 2011 10:13 pm
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	50.53	ppb	2.69	50	101.1	90 - 110	
51 V	72	1	49.22	ppb	3.17	50	98.4	90 - 110	
52 Cr	72	1	48.59	ppb	2.16	50	97.2	90 - 110	
55 Mn	72	1	50.48	ppb	2.75	50	101.0	90 - 110	
59 Co	72	1	49.78	ppb	2.14	50	99.6	90 - 110	
60 Ni	72	1	47.40	ppb	1.80	50	94.8	90 - 110	
63 Cu	72	1	49.14	ppb	1.66	50	98.3	90 - 110	
66 Zn	72	1	47.94	ppb	1.06	50	95.9	90 - 110	
75 As	72	1	49.31	ppb	1.60	50	98.6	90 - 110	
78 Se	72	1	49.80	ppb	3.43	50	99.6	90 - 110	
95 Mo	72	1	48.75	ppb	3.04	50	97.5	90 - 110	
107 Ag	115	1	47.40	ppb	0.55	50	94.8	90 - 110	
111 Cd	115	1	46.57	ppb	1.72	50	93.1	90 - 110	
118 Sn	115	1	47.09	ppb	2.40	50	94.2	90 - 110	
121 Sb	115	1	46.84	ppb	1.67	50	93.7	90 - 110	
137 Ba	115	1	48.92	ppb	1.77	50	97.8	90 - 110	
205 Tl	165	1	49.37	ppb	0.68	50	98.7	90 - 110	
208 Pb	165	1	47.83	ppb	1.41	50	95.7	90 - 110	
232 Th	165	1	48.35	ppb	2.62	50	96.7	90 - 110	
238 U	165	1	47.12	ppb	1.97	50	94.2	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	682058	2.20	813856	83.8	30 - 120	
45 Sc	1	3153736	1.63	3365388	93.7	30 - 120	
72 Ge	1	1921145	1.99	2009611	95.6	30 - 120	
115 In	1	5114421	0.51	5142726	99.4	30 - 120	
165 Ho	1	9204236	0.25	9667228	95.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\107_CCB.D\107_CCB.D#
Date Acquired: Dec 28 2011 10:16 pm
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.013	ppb	52.26	1.00	
51 V	72	1	0.006	ppb	266.26	1.00	
52 Cr	72	1	0.002	ppb	235.73	1.00	
55 Mn	72	1	0.108	ppb	5.47	1.00	
59 Co	72	1	0.009	ppb	18.91	1.00	
60 Ni	72	1	0.009	ppb	47.41	1.00	
63 Cu	72	1	0.006	ppb	100.92	1.00	
66 Zn	72	1	0.044	ppb	37.66	1.00	
75 As	72	1	0.009	ppb	120.64	1.00	
78 Se	72	1	-0.055	ppb	235.18	1.00	
95 Mo	72	1	0.007	ppb	127.36	1.00	
107 Ag	115	1	0.010	ppb	14.21	1.00	
111 Cd	115	1	0.011	ppb	46.94	1.00	
118 Sn	115	1	0.045	ppb	16.81	1.00	
121 Sb	115	1	0.015	ppb	3.42	1.00	
137 Ba	115	1	0.037	ppb	12.05	1.00	
205 Tl	165	1	0.029	ppb	11.19	1.00	
208 Pb	165	1	0.016	ppb	6.96	1.00	
232 Th	165	1	0.048	ppb	10.94	1.00	
238 U	165	1	0.013	ppb	4.85	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	693380	1.07	813856	85.2	30 - 120	
45 Sc	1	3230433	0.94	3365388	96.0	30 - 120	
72 Ge	1	1948297	0.91	2009611	96.9	30 - 120	
115 In	1	5175227	1.07	5142726	100.6	30 - 120	
165 Ho	1	9390167	0.93	9667228	97.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :Max. Number of Failures Allowed
0 :ISTD Failures
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\108WASH.D\108WASH.D#
Date Acquired: Dec 28 2011 10:19 pm
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.962 ppb	6.28	1.30	
51 V	72	1	4.790 ppb	2.14	6.50	
52 Cr	72	1	1.889 ppb	3.60	2.60	
55 Mn	72	1	1.063 ppb	3.82	1.30	
59 Co	72	1	0.956 ppb	3.85	1.30	
60 Ni	72	1	1.951 ppb	2.59	2.60	
63 Cu	72	1	1.908 ppb	2.41	2.60	
66 Zn	72	1	9.666 ppb	2.44	13.00	
75 As	72	1	5.031 ppb	1.82	6.50	
78 Se	72	1	5.133 ppb	11.48	6.50	
95 Mo	72	1	1.917 ppb	4.03	2.60	
107 Ag	115	1	4.883 ppb	2.71	6.50	
111 Cd	115	1	0.989 ppb	3.82	1.30	
118 Sn	115	1	9.442 ppb	3.72	13.00	
121 Sb	115	1	1.866 ppb	2.20	2.60	
137 Ba	115	1	0.983 ppb	2.80	1.30	
205 Tl	165	1	0.978 ppb	0.52	1.30	
208 Pb	165	1	0.950 ppb	1.68	1.30	
232 Th	165	1	1.904 ppb	3.36	2.60	
238 U	165	1	0.911 ppb	3.59	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	702283	0.63	813856	86.3	30 - 120	
45 Sc	1	3239764	0.88	3365388	96.3	30 - 120	
72 Ge	1	1962568	0.29	2009611	97.7	30 - 120	
115 In	1	5176620	0.74	5142726	100.7	30 - 120	
165 Ho	1	9346110	1.19	9667228	96.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\109_BLK.D\109_BLK.D#
Date Acquired: Dec 28 2011 10:22 pm
Operator: LRD
Sample Name: mb 280-101257/1-a
Misc Info: BLANK 101257 200.8
Vial Number: 3405
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.003 ppb	217.25	2.00	
51 V	72	1	0.022 ppb	162.45	2.00	
52 Cr	72	1	0.195 ppb	4.77	2.00	
55 Mn	72	1	0.075 ppb	3.54	2.00	
59 Co	72	1	0.004 ppb	26.13	2.00	
60 Ni	72	1	0.061 ppb	13.71	2.00	
63 Cu	72	1	0.117 ppb	3.84	2.00	
66 Zn	72	1	1.115 ppb	2.74	2.00	
75 As	72	1	0.204 ppb	10.07	2.00	
78 Se	72	1	0.311 ppb	86.10	2.00	
95 Mo	72	1	0.004 ppb	33.54	2.00	
107 Ag	115	1	0.023 ppb	13.37	2.00	
111 Cd	115	1	0.008 ppb	18.98	2.00	
118 Sn	115	1	0.143 ppb	2.09	2.00	
121 Sb	115	1	0.029 ppb	14.47	2.00	
137 Ba	115	1	0.041 ppb	7.10	2.00	
205 Tl	165	1	0.083 ppb	42.90	2.00	
208 Pb	165	1	0.077 ppb	18.37	2.00	
232 Th	165	1	0.010 ppb	14.87	2.00	
238 U	165	1	0.002 ppb	23.82	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	703908	1.77	813856	86.5	30 - 120	
45 Sc	1	3191019	0.88	3365388	94.8	30 - 120	
72 Ge	1	1915994	1.23	2009611	95.3	30 - 120	
115 In	1	5093306	0.71	5142726	99.0	30 - 120	
165 Ho	1	9231375	0.62	9667228	95.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\110_LCS.D\110_LCS.D#
Date Acquired: Dec 28 2011 10:25 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-101257/2-a
Misc Info: LCS
Vial Number: 3406
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	31.84	2.55	40	79.6	80 - 120	
51 V	72	1	30.42	1.83	40	76.1	80 - 120	
52 Cr	72	1	30.28	1.53	40	75.7	80 - 120	
55 Mn	72	1	32.41	2.54	40	81.0	80 - 120	
59 Co	72	1	31.47	2.51	40	78.7	80 - 120	
60 Ni	72	1	30.46	2.06	40	76.2	80 - 120	
63 Cu	72	1	30.99	1.30	40	77.5	80 - 120	
66 Zn	72	1	32.07	1.11	40	80.2	80 - 120	
75 As	72	1	32.72	0.83	40	81.8	80 - 120	
78 Se	72	1	34.05	3.10	40	85.1	80 - 120	
95 Mo	72	1	31.14	1.99	40	77.9	80 - 120	
107 Ag	115	1	30.63	0.91	40	76.6	80 - 120	
111 Cd	115	1	30.20	0.69	40	75.5	80 - 120	
118 Sn	115	1	29.82	2.17	40	74.6	80 - 120	
121 Sb	115	1	30.17	0.79	40	75.4	80 - 120	
137 Ba	115	1	31.47	0.43	40	78.7	80 - 120	
205 Tl	165	1	31.05	1.72	40	77.6	80 - 120	
208 Pb	165	1	30.03	2.10	40	75.1	80 - 120	
232 Th	165	1	30.40	4.64	40	76.0	80 - 120	
238 U	165	1	30.22	3.87	40	75.6	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	686250	0.70	813856	84.3	30 - 120	
45 Sc	1	3072334	1.56	3365388	91.3	30 - 120	
72 Ge	1	1856986	0.50	2009611	92.4	30 - 120	
115 In	1	5033632	0.79	5142726	97.9	30 - 120	
165 Ho	1	9177272	1.07	9667228	94.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\111AREF.D\111AREF.D#
Date Acquired: Dec 28 2011 10:28 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24000-a-1-d
Misc Info:
Vial Number: 3407
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.01	0.01	ppb	215.70	3600	
51 V	72	1	0.37	0.37	ppb	20.89	3600	
52 Cr	72	1	7.06	7.06	ppb	2.80	3600	
55 Mn	72	1	236.70	236.70	ppb	1.11	18000	
59 Co	72	1	0.27	0.27	ppb	1.68	3600	
60 Ni	72	1	23.96	23.96	ppb	2.03	3600	
63 Cu	72	1	304.70	304.70	ppb	1.14	3600	
66 Zn	72	1	12.95	12.95	ppb	1.85	3600	
75 As	72	1	0.62	0.62	ppb	4.52	3600	
78 Se	72	1	0.39	0.39	ppb	63.31	3600	
95 Mo	72	1	0.46	0.46	ppb	4.42	3600	
107 Ag	115	1	2.48	2.48	ppb	0.78	3600	
111 Cd	115	1	9.47	9.47	ppb	1.10	3600	
118 Sn	115	1	435.10	435.10	ppb	1.09	3600	
121 Sb	115	1	0.61	0.61	ppb	3.06	3600	
137 Ba	115	1	682.40	682.40	ppb	0.92	3600	
205 Tl	165	1	0.02	0.02	ppb	6.52	3600	
208 Pb	165	1	16.98	16.98	ppb	2.35	3600	
232 Th	165	1	0.06	0.06	ppb	7.16	1000	
238 U	165	1	0.06	0.06	ppb	1.20	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	635838	1.68	813856	78.1	30 - 120	
45 Sc	1	2828181	0.85	3365388	84.0	30 - 120	
72 Ge	1	1696314	1.03	2009611	84.4	30 - 120	
115 In	1	4503914	1.03	5142726	87.6	30 - 120	
165 Ho	1	8527194	1.46	9667228	88.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\112_MS.D\112_MS.D#
Date Acquired: Dec 28 2011 10:31 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24000-a-1-e ms
Misc Info: MATRIX SPIKE
Vial Number: 3408
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	33.33	0.01	ppb	5.30	40	83.3	50 - 150	
51 V	72	1	32.52	0.37	ppb	2.15	40	80.6	50 - 150	
52 Cr	72	1	38.15	7.06	ppb	3.00	40	81.1	50 - 150	
55 Mn	72	1	263.80	236.70	ppb	1.73	40	95.3	50 - 150	
59 Co	72	1	31.53	0.27	ppb	1.64	40	78.3	50 - 150	
60 Ni	72	1	53.05	23.96	ppb	1.77	40	82.9	50 - 150	
63 Cu	72	1	330.40	304.70	ppb	1.59	40	95.9	50 - 150	
66 Zn	72	1	43.76	12.95	ppb	0.84	40	82.6	50 - 150	
75 As	72	1	33.05	0.62	ppb	1.21	40	81.4	50 - 150	
78 Se	72	1	34.01	0.39	ppb	1.96	40	84.2	50 - 150	
95 Mo	72	1	30.06	0.46	ppb	0.90	40	74.3	50 - 150	
107 Ag	115	1	32.09	2.48	ppb	2.23	40	75.5	50 - 150	
111 Cd	115	1	39.86	9.47	ppb	3.64	40	80.6	50 - 150	
118 Sn	115	1	460.60	435.10	ppb	3.78	40	96.9	50 - 150	
121 Sb	115	1	30.58	0.61	ppb	3.91	40	75.3	50 - 150	
137 Ba	115	1	839.40	682.40	ppb	4.13	40	116.2	50 - 150	
205 Tl	165	1	30.78	0.02	ppb	2.14	40	76.9	50 - 150	
208 Pb	165	1	46.22	16.98	ppb	1.78	40	81.1	50 - 150	
232 Th	165	1	29.65	0.06	ppb	3.34	40	74.0	50 - 150	
238 U	165	1	30.50	0.06	ppb	4.48	40	76.1	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	655207	2.50	813856	80.5	30 - 120	
45 Sc	1	2868327	0.68	3365388	85.2	30 - 120	
72 Ge	1	1709491	1.13	2009611	85.1	30 - 120	
115 In	1	4548897	2.39	5142726	88.5	30 - 120	
165 Ho	1	8656453	1.57	9667228	89.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\113_MSD.D\113_MSD.D#
Date Acquired: Dec 28 2011 10:33 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24000-a-1-f msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3409
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\112_MS.D\112_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	34.78	ppb	1.12	33.33	4.26	20	
51 V	72	1	33.59	ppb	3.00	32.52	3.24	20	
52 Cr	72	1	39.29	ppb	2.83	38.15	2.94	20	
55 Mn	72	1	282.30	ppb	1.96	263.80	6.78	20	
59 Co	72	1	33.70	ppb	2.44	31.53	6.65	20	
60 Ni	72	1	56.23	ppb	2.66	53.05	5.82	20	
63 Cu	72	1	352.20	ppb	3.13	330.40	6.39	20	
66 Zn	72	1	45.70	ppb	2.29	43.76	4.34	20	
75 As	72	1	33.62	ppb	2.06	33.05	1.71	20	
78 Se	72	1	32.94	ppb	2.91	34.01	3.20	20	
95 Mo	72	1	29.68	ppb	3.02	30.06	1.27	20	
107 Ag	115	1	36.48	ppb	2.50	32.09	12.80	20	
111 Cd	115	1	43.35	ppb	0.63	39.86	8.39	20	
118 Sn	115	1	523.50	ppb	1.39	460.60	12.78	20	
121 Sb	115	1	32.34	ppb	0.35	30.58	5.59	20	
137 Ba	115	1	1349.00	ppb	1.12	839.40	46.57	20	
205 Tl	165	1	33.30	ppb	0.90	30.78	7.87	20	
208 Pb	165	1	51.88	ppb	1.02	46.22	11.54	20	
232 Th	165	1	31.27	ppb	2.39	29.65	5.32	20	
238 U	165	1	33.74	ppb	2.42	30.50	10.09	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	599734	1.54	813856	73.7	30 - 120	
45 Sc	1	2581855	1.08	3365388	76.7	30 - 120	
72 Ge	1	1593598	0.98	2009611	79.3	30 - 120	
115 In	1	4105983	2.57	5142726	79.8	30 - 120	
165 Ho	1	7759387	0.73	9667228	80.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\114_CCV.D\114_CCV.D#
Date Acquired: Dec 28 2011 10:36 pm
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	52.55	ppb	1.62	50	105.1	90 - 110	
51 V	72	1	51.93	ppb	0.66	50	103.9	90 - 110	
52 Cr	72	1	50.74	ppb	1.83	50	101.5	90 - 110	
55 Mn	72	1	53.59	ppb	0.35	50	107.2	90 - 110	
59 Co	72	1	52.42	ppb	1.16	50	104.8	90 - 110	
60 Ni	72	1	49.75	ppb	0.32	50	99.5	90 - 110	
63 Cu	72	1	51.75	ppb	2.70	50	103.5	90 - 110	
66 Zn	72	1	51.57	ppb	0.18	50	103.1	90 - 110	
75 As	72	1	52.81	ppb	0.38	50	105.6	90 - 110	
78 Se	72	1	54.51	ppb	3.78	50	109.0	90 - 110	
95 Mo	72	1	51.42	ppb	0.54	50	102.8	90 - 110	
107 Ag	115	1	51.31	ppb	1.78	50	102.6	90 - 110	
111 Cd	115	1	51.07	ppb	3.03	50	102.1	90 - 110	
118 Sn	115	1	51.79	ppb	2.80	50	103.6	90 - 110	
121 Sb	115	1	51.88	ppb	2.53	50	103.8	90 - 110	
137 Ba	115	1	54.21	ppb	2.33	50	108.4	90 - 110	
205 Tl	165	1	54.87	ppb	0.43	50	109.7	90 - 110	
208 Pb	165	1	52.60	ppb	2.69	50	105.2	90 - 110	
232 Th	165	1	53.31	ppb	3.72	50	106.6	90 - 110	
238 U	165	1	52.68	ppb	2.14	50	105.4	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	619400	0.96	813856	76.1	30 - 120	
45 Sc	1	2706209	1.67	3365388	80.4	30 - 120	
72 Ge	1	1700808	1.32	2009611	84.6	30 - 120	
115 In	1	4466447	0.83	5142726	86.8	30 - 120	
165 Ho	1	8227522	0.54	9667228	85.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\115_CCB.D\115_CCB.D#
Date Acquired: Dec 28 2011 10:39 pm
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.002	ppb	362.31	1.00	
51	V	72	1	0.006	ppb	187.00	1.00	
52	Cr	72	1	0.014	ppb	45.42	1.00	
55	Mn	72	1	0.102	ppb	5.68	1.00	
59	Co	72	1	0.009	ppb	20.27	1.00	
60	Ni	72	1	0.014	ppb	105.91	1.00	
63	Cu	72	1	0.026	ppb	47.31	1.00	
66	Zn	72	1	0.044	ppb	9.18	1.00	
75	As	72	1	0.018	ppb	15.60	1.00	
78	Se	72	1	0.277	ppb	76.85	1.00	
95	Mo	72	1	0.015	ppb	35.38	1.00	
107	Ag	115	1	0.014	ppb	15.28	1.00	
111	Cd	115	1	0.015	ppb	19.68	1.00	
118	Sn	115	1	0.095	ppb	14.24	1.00	
121	Sb	115	1	0.018	ppb	8.53	1.00	
137	Ba	115	1	0.070	ppb	2.57	1.00	
205	Tl	165	1	0.028	ppb	9.79	1.00	
208	Pb	165	1	0.024	ppb	4.91	1.00	
232	Th	165	1	0.077	ppb	2.98	1.00	
238	U	165	1	0.016	ppb	9.18	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	612129	3.05	813856	75.2	30 - 120	
45	Sc	1	2773751	1.04	3365388	82.4	30 - 120	
72	Ge	1	1698354	0.40	2009611	84.5	30 - 120	
115	In	1	4488439	0.58	5142726	87.3	30 - 120	
165	Ho	1	8271016	0.91	9667228	85.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\116_BLK.D\116_BLK.D#
Date Acquired: Dec 28 2011 10:42 pm
Operator: LRD
Sample Name: mb 280-101054/1-b
Misc Info: BLANK 101438 200.8
Vial Number: 3410
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.006 ppb	216.27	2.00	
51 V	72	1	0.045 ppb	64.82	2.00	
52 Cr	72	1	0.029 ppb	19.64	2.00	
55 Mn	72	1	0.081 ppb	4.14	2.00	
59 Co	72	1	0.003 ppb	90.35	2.00	
60 Ni	72	1	0.026 ppb	31.38	2.00	
63 Cu	72	1	0.107 ppb	4.44	2.00	
66 Zn	72	1	0.916 ppb	3.77	2.00	
75 As	72	1	0.125 ppb	4.84	2.00	
78 Se	72	1	0.096 ppb	70.49	2.00	
95 Mo	72	1	-0.011 ppb	18.01	2.00	
107 Ag	115	1	0.016 ppb	21.22	2.00	
111 Cd	115	1	0.001 ppb	442.76	2.00	
118 Sn	115	1	0.187 ppb	9.07	2.00	
121 Sb	115	1	0.014 ppb	12.84	2.00	
137 Ba	115	1	0.174 ppb	0.82	2.00	
205 Tl	165	1	0.037 ppb	50.46	2.00	
208 Pb	165	1	0.042 ppb	23.82	2.00	
232 Th	165	1	0.019 ppb	16.49	2.00	
238 U	165	1	0.004 ppb	11.17	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	637211	2.19	813856	78.3	30 - 120	
45 Sc	1	2758047	2.18	3365388	82.0	30 - 120	
72 Ge	1	1709464	0.35	2009611	85.1	30 - 120	
115 In	1	4550697	0.70	5142726	88.5	30 - 120	
165 Ho	1	8303965	0.46	9667228	85.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\117_LCS.D\117_LCS.D#
Date Acquired: Dec 28 2011 10:45 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-101054/2-b
Misc Info: LCS
Vial Number: 3411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	34.20	1.67	40	85.5	80 - 120	
51 V	72	1	31.72	0.82	40	79.3	80 - 120	
52 Cr	72	1	31.63	1.35	40	79.1	80 - 120	
55 Mn	72	1	32.57	1.17	40	81.4	80 - 120	
59 Co	72	1	33.38	1.99	40	83.5	80 - 120	
60 Ni	72	1	31.73	1.59	40	79.3	80 - 120	
63 Cu	72	1	32.37	2.06	40	80.9	80 - 120	
66 Zn	72	1	34.13	1.99	40	85.3	80 - 120	
75 As	72	1	34.66	1.46	40	86.7	80 - 120	
78 Se	72	1	36.73	3.33	40	91.8	80 - 120	
95 Mo	72	1	33.35	1.50	40	83.4	80 - 120	
107 Ag	115	1	33.25	1.92	40	83.1	80 - 120	
111 Cd	115	1	32.99	2.66	40	82.5	80 - 120	
118 Sn	115	1	33.16	1.95	40	82.9	80 - 120	
121 Sb	115	1	33.45	1.40	40	83.6	80 - 120	
137 Ba	115	1	34.25	2.26	40	85.6	80 - 120	
205 Tl	165	1	34.90	1.64	40	87.3	80 - 120	
208 Pb	165	1	33.33	1.92	40	83.3	80 - 120	
232 Th	165	1	34.01	3.15	40	85.0	80 - 120	
238 U	165	1	34.31	1.07	40	85.8	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	634427	0.55	813856	78.0	30 - 120	
45 Sc	1	2663344	0.18	3365388	79.1	30 - 120	
72 Ge	1	1687471	1.44	2009611	84.0	30 - 120	
115 In	1	4490581	0.96	5142726	87.3	30 - 120	
165 Ho	1	8295156	1.47	9667228	85.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\118AREF.D\118AREF.D#
Date Acquired: Dec 28 2011 10:48 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24039-b-1-b
Misc Info:
Vial Number: 3412
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.05	0.05	ppb	28.46	3600	
51 V	72	1	8.43	8.43	ppb	2.85	3600	
52 Cr	72	1	0.93	0.93	ppb	1.73	3600	
55 Mn	72	1	50.09	50.09	ppb	3.04	18000	
59 Co	72	1	0.85	0.85	ppb	2.32	3600	
60 Ni	72	1	3.46	3.46	ppb	2.50	3600	
63 Cu	72	1	80.80	80.80	ppb	1.80	3600	
66 Zn	72	1	96.16	96.16	ppb	1.96	3600	
75 As	72	1	0.97	0.97	ppb	4.89	3600	
78 Se	72	1	3.07	3.07	ppb	4.26	3600	
95 Mo	72	1	2.38	2.38	ppb	1.68	3600	
107 Ag	115	1	0.02	0.02	ppb	2.62	3600	
111 Cd	115	1	0.08	0.08	ppb	13.71	3600	
118 Sn	115	1	0.44	0.44	ppb	5.67	3600	
121 Sb	115	1	0.27	0.27	ppb	2.39	3600	
137 Ba	115	1	82.27	82.27	ppb	1.48	3600	
205 Tl	165	1	0.02	0.02	ppb	1.83	3600	
208 Pb	165	1	0.60	0.60	ppb	1.89	3600	
232 Th	165	1	0.08	0.08	ppb	3.90	1000	
238 U	165	1	8.57	8.57	ppb	2.32	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	570355	0.06	813856	70.1	30 - 120	
45 Sc	1	2485627	1.17	3365388	73.9	30 - 120	
72 Ge	1	1520644	0.23	2009611	75.7	30 - 120	
115 In	1	3978702	1.44	5142726	77.4	30 - 120	
165 Ho	1	7618990	0.17	9667228	78.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\119_MS.D\119_MS.D#
Date Acquired: Dec 28 2011 10:51 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24039-b-1-c ms
Misc Info: MATRIX SPIKE
Vial Number: 3501
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	37.02	0.05	ppb	2.04	40	92.4	50 - 150	
51 V	72	1	43.65	8.43	ppb	2.07	40	90.1	50 - 150	
52 Cr	72	1	34.16	0.93	ppb	2.38	40	83.5	50 - 150	
55 Mn	72	1	87.46	50.09	ppb	3.72	40	97.1	50 - 150	
59 Co	72	1	34.16	0.85	ppb	3.75	40	83.6	50 - 150	
60 Ni	72	1	35.11	3.45	ppb	1.11	40	80.8	50 - 150	
63 Cu	72	1	114.10	80.80	ppb	1.07	40	94.5	50 - 150	
66 Zn	72	1	131.80	96.16	ppb	2.00	40	96.8	50 - 150	
75 As	72	1	38.39	0.97	ppb	2.26	40	93.7	50 - 150	
78 Se	72	1	41.84	3.07	ppb	4.19	40	97.1	50 - 150	
95 Mo	72	1	37.45	2.38	ppb	2.62	40	88.4	50 - 150	
107 Ag	115	1	32.74	0.02	ppb	1.82	40	81.8	50 - 150	
111 Cd	115	1	33.76	0.08	ppb	2.09	40	84.2	50 - 150	
118 Sn	115	1	34.30	0.44	ppb	4.15	40	84.8	50 - 150	
121 Sb	115	1	35.25	0.27	ppb	2.44	40	87.5	50 - 150	
137 Ba	115	1	123.20	82.27	ppb	2.57	40	100.8	50 - 150	
205 Tl	165	1	34.33	0.02	ppb	1.97	40	85.8	50 - 150	
208 Pb	165	1	32.73	0.60	ppb	2.35	40	80.6	50 - 150	
232 Th	165	1	32.14	0.08	ppb	4.15	40	80.2	50 - 150	
238 U	165	1	43.36	8.57	ppb	3.39	40	89.3	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	562212	1.03	813856	69.1	30 - 120	
45 Sc	1	2484731	0.37	3365388	73.8	30 - 120	
72 Ge	1	1507426	0.58	2009611	75.0	30 - 120	
115 In	1	3909100	0.97	5142726	76.0	30 - 120	
165 Ho	1	7548187	0.80	9667228	78.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\120_MSD.D\120_MSD.D#
Date Acquired: Dec 28 2011 10:54 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24039-b-1-d msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3502
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\119_MS.D\119_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	37.35	ppb	1.39	37.02	0.89	20	
51 V	72	1	42.98	ppb	4.81	43.65	1.55	20	
52 Cr	72	1	33.50	ppb	2.66	34.16	1.95	20	
55 Mn	72	1	86.91	ppb	1.34	87.46	0.63	20	
59 Co	72	1	33.67	ppb	4.16	34.16	1.44	20	
60 Ni	72	1	34.97	ppb	2.19	35.11	0.40	20	
63 Cu	72	1	114.10	ppb	1.75	114.10	0.00	20	
66 Zn	72	1	130.90	ppb	2.02	131.80	0.69	20	
75 As	72	1	37.49	ppb	1.76	38.39	2.37	20	
78 Se	72	1	38.92	ppb	1.26	41.84	7.23	20	
95 Mo	72	1	37.13	ppb	2.12	37.45	0.86	20	
107 Ag	115	1	32.05	ppb	0.67	32.74	2.13	20	
111 Cd	115	1	33.34	ppb	0.97	33.76	1.25	20	
118 Sn	115	1	34.23	ppb	2.41	34.30	0.20	20	
121 Sb	115	1	35.08	ppb	2.59	35.25	0.48	20	
137 Ba	115	1	120.80	ppb	1.94	123.20	1.97	20	
205 Tl	165	1	33.88	ppb	0.78	34.33	1.32	20	
208 Pb	165	1	32.67	ppb	1.39	32.73	0.18	20	
232 Th	165	1	32.63	ppb	3.28	32.14	1.51	20	
238 U	165	1	43.32	ppb	1.74	43.36	0.09	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	568711	0.67	813856	69.9	30 - 120	
45 Sc	1	2469175	0.96	3365388	73.4	30 - 120	
72 Ge	1	1514015	0.60	2009611	75.3	30 - 120	
115 In	1	3928112	0.62	5142726	76.4	30 - 120	
165 Ho	1	7447073	0.57	9667228	77.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\121SMPL.D\121SMPL.D#
Date Acquired: Dec 28 2011 10:57 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24039-b-2-b
Misc Info:
Vial Number: 3503
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.00	0.00	ppb	285.55	3600	
51 V	72	1	1.81	1.81	ppb	3.35	3600	
52 Cr	72	1	0.35	0.35	ppb	3.89	3600	
55 Mn	72	1	19.18	19.18	ppb	2.55	18000	
59 Co	72	1	0.77	0.77	ppb	1.82	3600	
60 Ni	72	1	2.14	2.14	ppb	0.19	3600	
63 Cu	72	1	9.36	9.36	ppb	1.33	3600	
66 Zn	72	1	48.64	48.64	ppb	1.52	3600	
75 As	72	1	0.46	0.46	ppb	2.60	3600	
78 Se	72	1	2.54	2.54	ppb	9.59	3600	
95 Mo	72	1	4.28	4.28	ppb	2.16	3600	
107 Ag	115	1	0.02	0.02	ppb	10.77	3600	
111 Cd	115	1	0.06	0.06	ppb	14.57	3600	
118 Sn	115	1	0.19	0.19	ppb	11.10	3600	
121 Sb	115	1	0.38	0.38	ppb	1.45	3600	
137 Ba	115	1	45.05	45.05	ppb	1.82	3600	
205 Tl	165	1	0.01	0.01	ppb	10.79	3600	
208 Pb	165	1	0.11	0.11	ppb	4.30	3600	
232 Th	165	1	0.06	0.06	ppb	3.77	1000	
238 U	165	1	4.60	4.60	ppb	2.69	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	557142	1.72	813856	68.5	30 - 120	
45 Sc	1	2422472	0.87	3365388	72.0	30 - 120	
72 Ge	1	1492413	0.20	2009611	74.3	30 - 120	
115 In	1	3856983	0.54	5142726	75.0	30 - 120	
165 Ho	1	7309618	0.33	9667228	75.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\122SMPL.D\122SMPL.D#
Date Acquired: Dec 28 2011 11:00 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24039-a-3-b
Misc Info:
Vial Number: 3504
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.00	0.00	ppb	337.86	3600	
51 V	72	1	0.54	0.54	ppb	7.51	3600	
52 Cr	72	1	0.24	0.24	ppb	9.42	3600	
55 Mn	72	1	26.15	26.15	ppb	2.74	18000	
59 Co	72	1	0.12	0.12	ppb	2.36	3600	
60 Ni	72	1	0.83	0.83	ppb	5.92	3600	
63 Cu	72	1	1.88	1.88	ppb	2.78	3600	
66 Zn	72	1	6.79	6.79	ppb	2.44	3600	
75 As	72	1	0.68	0.68	ppb	2.25	3600	
78 Se	72	1	1.68	1.68	ppb	28.93	3600	
95 Mo	72	1	4.56	4.56	ppb	2.06	3600	
107 Ag	115	1	0.01	0.01	ppb	20.70	3600	
111 Cd	115	1	0.01	0.01	ppb	87.21	3600	
118 Sn	115	1	0.11	0.11	ppb	5.64	3600	
121 Sb	115	1	0.11	0.11	ppb	11.73	3600	
137 Ba	115	1	64.14	64.14	ppb	2.24	3600	
205 Tl	165	1	0.00	0.00	ppb	13.17	3600	
208 Pb	165	1	0.16	0.16	ppb	0.82	3600	
232 Th	165	1	0.02	0.02	ppb	2.41	1000	
238 U	165	1	7.76	7.76	ppb	1.32	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	587720	2.34	813856	72.2	30 - 120	
45 Sc	1	2556293	0.11	3365388	76.0	30 - 120	
72 Ge	1	1573748	0.82	2009611	78.3	30 - 120	
115 In	1	4147059	1.01	5142726	80.6	30 - 120	
165 Ho	1	7734371	0.69	9667228	80.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\123SMPL.D\123SMPL.D#
Date Acquired: Dec 28 2011 11:02 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24039-a-4-b
Misc Info:
Vial Number: 3505
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.00	0.00	ppb	318.98	3600	
51 V	72	1	0.08	0.08	ppb	38.16	3600	
52 Cr	72	1	0.23	0.23	ppb	1.25	3600	
55 Mn	72	1	0.21	0.21	ppb	3.77	18000	
59 Co	72	1	0.07	0.07	ppb	5.06	3600	
60 Ni	72	1	1.81	1.81	ppb	2.99	3600	
63 Cu	72	1	0.28	0.28	ppb	2.96	3600	
66 Zn	72	1	6.65	6.65	ppb	1.36	3600	
75 As	72	1	0.45	0.45	ppb	5.91	3600	
78 Se	72	1	1.46	1.46	ppb	19.76	3600	
95 Mo	72	1	3.70	3.70	ppb	2.16	3600	
107 Ag	115	1	0.01	0.01	ppb	1.52	3600	
111 Cd	115	1	0.01	0.01	ppb	70.97	3600	
118 Sn	115	1	0.09	0.09	ppb	3.03	3600	
121 Sb	115	1	0.12	0.12	ppb	2.38	3600	
137 Ba	115	1	64.51	64.51	ppb	0.66	3600	
205 Tl	165	1	0.00	0.00	ppb	2.94	3600	
208 Pb	165	1	0.03	0.03	ppb	4.91	3600	
232 Th	165	1	0.01	0.01	ppb	22.91	1000	
238 U	165	1	5.00	5.00	ppb	1.20	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	589906	3.43	813856	72.5	30 - 120	
45 Sc	1	2550346	0.50	3365388	75.8	30 - 120	
72 Ge	1	1569207	0.90	2009611	78.1	30 - 120	
115 In	1	4086790	0.80	5142726	79.5	30 - 120	
165 Ho	1	7790223	0.36	9667228	80.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\124_LCS.D\124_LCS.D#
Date Acquired: Dec 28 2011 11:05 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-101054/2-b
Misc Info: LCS
Vial Number: 3411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	34.74	1.82	40	86.9	80 - 120	
51 V	72	1	31.95	2.12	40	79.9	80 - 120	
52 Cr	72	1	31.93	2.21	40	79.8	80 - 120	
55 Mn	72	1	33.14	1.73	40	82.9	80 - 120	
59 Co	72	1	33.14	1.65	40	82.9	80 - 120	
60 Ni	72	1	32.05	2.00	40	80.1	80 - 120	
63 Cu	72	1	32.49	1.91	40	81.2	80 - 120	
66 Zn	72	1	34.38	2.64	40	86.0	80 - 120	
75 As	72	1	34.89	0.62	40	87.2	80 - 120	
78 Se	72	1	36.79	1.35	40	92.0	80 - 120	
95 Mo	72	1	33.45	2.97	40	83.6	80 - 120	
107 Ag	115	1	33.19	1.28	40	83.0	80 - 120	
111 Cd	115	1	32.68	1.65	40	81.7	80 - 120	
118 Sn	115	1	32.98	2.19	40	82.5	80 - 120	
121 Sb	115	1	33.32	1.56	40	83.3	80 - 120	
137 Ba	115	1	34.42	1.37	40	86.1	80 - 120	
205 Tl	165	1	35.00	0.61	40	87.5	80 - 120	
208 Pb	165	1	33.27	0.79	40	83.2	80 - 120	
232 Th	165	1	34.00	3.23	40	85.0	80 - 120	
238 U	165	1	34.22	1.40	40	85.6	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	621173	1.58	813856	76.3	30 - 120	
45 Sc	1	2636627	0.47	3365388	78.3	30 - 120	
72 Ge	1	1647583	0.64	2009611	82.0	30 - 120	
115 In	1	4425662	0.38	5142726	86.1	30 - 120	
165 Ho	1	8184869	0.66	9667228	84.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\125_CCV.D\125_CCV.D#
Date Acquired: Dec 28 2011 11:08 pm
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	55.41	ppb	1.62	50	110.8	90 - 110	Fail
51 V	72	1	54.05	ppb	2.32	50	108.1	90 - 110	
52 Cr	72	1	52.89	ppb	3.76	50	105.8	90 - 110	
55 Mn	72	1	54.14	ppb	2.01	50	108.3	90 - 110	
59 Co	72	1	53.42	ppb	2.70	50	106.8	90 - 110	
60 Ni	72	1	50.92	ppb	2.56	50	101.8	90 - 110	
63 Cu	72	1	52.40	ppb	4.04	50	104.8	90 - 110	
66 Zn	72	1	52.98	ppb	2.60	50	106.0	90 - 110	
75 As	72	1	53.93	ppb	1.96	50	107.9	90 - 110	
78 Se	72	1	54.80	ppb	0.96	50	109.6	90 - 110	
95 Mo	72	1	53.13	ppb	3.57	50	106.3	90 - 110	
107 Ag	115	1	53.75	ppb	1.63	50	107.5	90 - 110	
111 Cd	115	1	53.44	ppb	1.79	50	106.9	90 - 110	
118 Sn	115	1	53.61	ppb	2.96	50	107.2	90 - 110	
121 Sb	115	1	54.07	ppb	2.54	50	108.1	90 - 110	
137 Ba	115	1	56.65	ppb	2.40	50	113.3	90 - 110	Fail
205 Tl	165	1	56.98	ppb	1.78	50	114.0	90 - 110	Fail
208 Pb	165	1	54.31	ppb	1.02	50	108.6	90 - 110	
232 Th	165	1	55.57	ppb	3.04	50	111.1	90 - 110	Fail
238 U	165	1	55.09	ppb	2.39	50	110.2	90 - 110	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	579135	1.62	813856	71.2	30 - 120	
45 Sc	1	2566682	0.46	3365388	76.3	30 - 120	
72 Ge	1	1622577	0.41	2009611	80.7	30 - 120	
115 In	1	4225557	0.64	5142726	82.2	30 - 120	
165 Ho	1	7915908	1.09	9667228	81.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

5 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\126_CCB.D\126_CCB.D#
Date Acquired: Dec 28 2011 11:11 pm
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.021	ppb	64.68	1.00	
51 V	72	1	-0.020	ppb	49.73	1.00	
52 Cr	72	1	0.008	ppb	71.06	1.00	
55 Mn	72	1	0.074	ppb	19.74	1.00	
59 Co	72	1	0.010	ppb	13.41	1.00	
60 Ni	72	1	0.006	ppb	88.84	1.00	
63 Cu	72	1	0.005	ppb	72.41	1.00	
66 Zn	72	1	0.035	ppb	49.64	1.00	
75 As	72	1	0.028	ppb	20.25	1.00	
78 Se	72	1	0.441	ppb	79.57	1.00	
95 Mo	72	1	0.014	ppb	37.36	1.00	
107 Ag	115	1	0.011	ppb	2.27	1.00	
111 Cd	115	1	0.008	ppb	26.15	1.00	
118 Sn	115	1	0.050	ppb	20.74	1.00	
121 Sb	115	1	0.020	ppb	9.99	1.00	
137 Ba	115	1	0.016	ppb	24.04	1.00	
205 Tl	165	1	0.030	ppb	16.61	1.00	
208 Pb	165	1	0.020	ppb	3.12	1.00	
232 Th	165	1	0.089	ppb	6.19	1.00	
238 U	165	1	0.017	ppb	7.42	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	584614	2.36	813856	71.8	30 - 120	
45 Sc	1	2574268	0.72	3365388	76.5	30 - 120	
72 Ge	1	1634849	0.72	2009611	81.4	30 - 120	
115 In	1	4217673	0.57	5142726	82.0	30 - 120	
165 Ho	1	7859253	0.77	9667228	81.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :Max. Number of Failures Allowed
0 :ISTD Failures
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\127_BLK.D\127_BLK.D#
Date Acquired: Dec 28 2011 11:14 pm
Operator: LRD
Sample Name: mb 280-101487/1-a
Misc Info: BLANK 101487 6020
Vial Number: 4504
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.003 ppb	316.60	2.00	
51 V	72	1	0.011 ppb	85.07	2.00	
52 Cr	72	1	0.034 ppb	11.59	2.00	
55 Mn	72	1	0.066 ppb	28.54	2.00	
59 Co	72	1	0.004 ppb	34.26	2.00	
60 Ni	72	1	0.024 ppb	11.69	2.00	
63 Cu	72	1	0.029 ppb	20.67	2.00	
66 Zn	72	1	1.149 ppb	0.57	2.00	
75 As	72	1	0.015 ppb	7.68	2.00	
78 Se	72	1	0.282 ppb	84.96	2.00	
95 Mo	72	1	0.005 ppb	54.65	2.00	
107 Ag	115	1	0.007 ppb	30.62	2.00	
111 Cd	115	1	0.006 ppb	114.42	2.00	
118 Sn	115	1	0.070 ppb	8.21	2.00	
121 Sb	115	1	0.011 ppb	29.84	2.00	
137 Ba	115	1	0.034 ppb	22.12	2.00	
205 Tl	165	1	0.018 ppb	5.19	2.00	
208 Pb	165	1	0.027 ppb	1.30	2.00	
232 Th	165	1	0.040 ppb	20.96	2.00	
238 U	165	1	0.007 ppb	18.52	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	575504	0.45	813856	70.7	30 - 120	
45 Sc	1	2481357	0.14	3365388	73.7	30 - 120	
72 Ge	1	1580758	0.96	2009611	78.7	30 - 120	
115 In	1	4091587	1.20	5142726	79.6	30 - 120	
165 Ho	1	7592523	0.60	9667228	78.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\128WASH.D\128WASH.D#
Date Acquired: Dec 28 2011 11:17 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.004 ppb	244.97	1.30	
51 V	72	1	0.268 ppb	36.11	6.50	
52 Cr	72	1	1.674 ppb	5.66	2.60	
55 Mn	72	1	0.981 ppb	4.90	1.30	
59 Co	72	1	0.092 ppb	6.81	1.30	
60 Ni	72	1	1.340 ppb	3.35	2.60	
63 Cu	72	1	0.515 ppb	2.56	2.60	
66 Zn	72	1	4.871 ppb	4.01	13.00	
75 As	72	1	0.893 ppb	2.72	6.50	
78 Se	72	1	0.700 ppb	55.31	6.50	
95 Mo	72	1	2915.000 ppb	2.82	2.60	
107 Ag	115	1	0.094 ppb	5.55	6.50	
111 Cd	115	1	0.813 ppb	6.45	1.30	
118 Sn	115	1	0.781 ppb	5.19	13.00	
121 Sb	115	1	0.460 ppb	2.48	2.60	
137 Ba	115	1	0.324 ppb	11.07	1.30	
205 Tl	165	1	0.053 ppb	24.20	1.30	
208 Pb	165	1	0.222 ppb	0.26	1.30	
232 Th	165	1	0.063 ppb	13.74	2.60	
238 U	165	1	0.013 ppb	1.45	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	514221	0.47	813856	63.2	30 - 120	
45 Sc	1	2155873	0.92	3365388	64.1	30 - 120	
72 Ge	1	1328165	0.92	2009611	66.1	30 - 120	
115 In	1	3320544	0.66	5142726	64.6	30 - 120	
165 Ho	1	6289486	0.24	9667228	65.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\129WASH.D\129WASH.D#
Date Acquired: Dec 28 2011 11:20 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.002 ppb	319.29	1.30	
51 V	72	1	0.005 ppb	423.30	6.50	
52 Cr	72	1	0.006 ppb	128.76	2.60	
55 Mn	72	1	0.041 ppb	37.06	1.30	
59 Co	72	1	0.000 ppb	343.37	1.30	
60 Ni	72	1	0.149 ppb	14.21	2.60	
63 Cu	72	1	0.007 ppb	51.25	2.60	
66 Zn	72	1	0.064 ppb	14.55	13.00	
75 As	72	1	0.012 ppb	44.08	6.50	
78 Se	72	1	0.320 ppb	34.33	6.50	
95 Mo	72	1	0.666 ppb	1.56	2.60	
107 Ag	115	1	0.001 ppb	99.67	6.50	
111 Cd	115	1	0.003 ppb	135.87	1.30	
118 Sn	115	1	0.002 ppb	75.15	13.00	
121 Sb	115	1	0.003 ppb	28.14	2.60	
137 Ba	115	1	0.001 ppb	274.32	1.30	
205 Tl	165	1	0.004 ppb	18.57	1.30	
208 Pb	165	1	0.003 ppb	53.92	1.30	
232 Th	165	1	0.006 ppb	22.70	2.60	
238 U	165	1	0.001 ppb	35.66	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	604973	1.80	813856	74.3	30 - 120	
45 Sc	1	2645958	0.41	3365388	78.6	30 - 120	
72 Ge	1	1674841	0.21	2009611	83.3	30 - 120	
115 In	1	4369256	1.38	5142726	85.0	30 - 120	
165 Ho	1	7936803	0.71	9667228	82.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\130WASH.D\130WASH.D#
Date Acquired: Dec 28 2011 11:23 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.007 ppb	0.00	1.30	
51 V	72	1	-0.001 ppb	2637.00	6.50	
52 Cr	72	1	-0.003 ppb	105.78	2.60	
55 Mn	72	1	0.027 ppb	19.19	1.30	
59 Co	72	1	0.000 ppb	467.29	1.30	
60 Ni	72	1	0.125 ppb	8.58	2.60	
63 Cu	72	1	-0.007 ppb	13.13	2.60	
66 Zn	72	1	0.055 ppb	19.39	13.00	
75 As	72	1	0.010 ppb	66.57	6.50	
78 Se	72	1	0.174 ppb	63.08	6.50	
95 Mo	72	1	0.197 ppb	3.84	2.60	
107 Ag	115	1	0.000 ppb	113.44	6.50	
111 Cd	115	1	0.008 ppb	89.65	1.30	
118 Sn	115	1	0.004 ppb	71.43	13.00	
121 Sb	115	1	0.002 ppb	102.56	2.60	
137 Ba	115	1	0.006 ppb	74.61	1.30	
205 Tl	165	1	0.003 ppb	55.30	1.30	
208 Pb	165	1	0.002 ppb	47.84	1.30	
232 Th	165	1	0.004 ppb	53.48	2.60	
238 U	165	1	0.000 ppb	158.83	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	618692	1.78	813856	76.0	30 - 120	
45 Sc	1	2730510	2.16	3365388	81.1	30 - 120	
72 Ge	1	1725447	2.33	2009611	85.9	30 - 120	
115 In	1	4474282	1.49	5142726	87.0	30 - 120	
165 Ho	1	8156804	0.43	9667228	84.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\131WASH.D\131WASH.D#
Date Acquired: Dec 28 2011 11:26 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 05:19 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.003 ppb	290.62	1.30	
51 V	72	1	-0.012 ppb	137.30	6.50	
52 Cr	72	1	-0.002 ppb	131.23	2.60	
55 Mn	72	1	0.022 ppb	26.61	1.30	
59 Co	72	1	0.001 ppb	269.60	1.30	
60 Ni	72	1	0.153 ppb	18.12	2.60	
63 Cu	72	1	-0.008 ppb	8.17	2.60	
66 Zn	72	1	0.037 ppb	17.47	13.00	
75 As	72	1	0.000 ppb	1586.50	6.50	
78 Se	72	1	0.582 ppb	40.42	6.50	
95 Mo	72	1	0.083 ppb	9.20	2.60	
107 Ag	115	1	0.001 ppb	123.22	6.50	
111 Cd	115	1	0.002 ppb	175.40	1.30	
118 Sn	115	1	-0.001 ppb	792.48	13.00	
121 Sb	115	1	0.001 ppb	13.24	2.60	
137 Ba	115	1	0.003 ppb	191.97	1.30	
205 Tl	165	1	0.002 ppb	17.94	1.30	
208 Pb	165	1	0.001 ppb	89.18	1.30	
232 Th	165	1	0.004 ppb	38.89	2.60	
238 U	165	1	0.000 ppb	509.53	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	620183	1.95	813856	76.2	30 - 120	
45 Sc	1	2736242	0.75	3365388	81.3	30 - 120	
72 Ge	1	1717172	1.03	2009611	85.4	30 - 120	
115 In	1	4461191	1.60	5142726	86.7	30 - 120	
165 Ho	1	8087805	1.13	9667228	83.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\132CALB.D\132CALB.D#
Date Acquired: Dec 28 2011 11:29 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: Cal Blank
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 05:19 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	10	173.21
51	V	72	1	351	66.14
52	Cr	72	1	1573	14.79
55	Mn	72	1	1413	8.57
59	Co	72	1	237	19.66
60	Ni	72	1	150	18.84
63	Cu	72	1	1127	9.77
66	Zn	72	1	527	1.95
75	As	72	1	105	13.66
78	Se	72	1	437	15.32
95	Mo	72	1	617	16.16
107	Ag	115	1	77	83.09
111	Cd	115	1	51	72.18
118	Sn	115	1	310	35.17
121	Sb	115	1	110	15.02
137	Ba	115	1	54	28.49
205	Tl	165	1	351	8.65
208	Pb	165	1	882	0.86
232	Th	165	1	463	25.59
238	U	165	1	304	8.93

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	611792	3.05
45	Sc	1	2755928	0.70
72	Ge	1	1730680	1.42
115	In	1	4437411	0.90
165	Ho	1	8004851	1.83

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#
Date Acquired: Dec 28 2011 11:32 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: IC-1192705
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:29 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
51	V	72	1	248	192.90
52	Cr	72	1	1360	11.02
55	Mn	72	1	1357	8.89
59	Co	72	1	147	23.50
60	Ni	72	1	113	25.79
63	Cu	72	1	877	23.58
66	Zn	72	1	351	10.59
75	As	72	1	113	19.71
78	Se	72	1	390	5.08
95	Mo	72	1	347	21.54
107	Ag	115	1	30	58.65
111	Cd	115	1	24	32.86
118	Sn	115	1	273	25.73
121	Sb	115	1	43	36.03
137	Ba	115	1	50	7.15
205	Tl	165	1	169	24.82
208	Pb	165	1	593	1.54
232	Th	165	1	160	22.03
238	U	165	1	50	51.43

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	616319	1.12
45	Sc	1	2765666	1.27
72	Ge	1	1702372	0.63
115	In	1	4430923	0.96
165	Ho	1	7989535	0.69

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\134ICAL.D\134ICAL.D#
Date Acquired: Dec 28 2011 11:35 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: IC-1192690
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:32 pm
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	81329	4.42
51	V	72	1	2098175	2.88
52	Cr	72	1	2196099	3.60
55	Mn	72	1	1992278	2.78
59	Co	72	1	3043168	2.75
60	Ni	72	1	730945	2.19
63	Cu	72	1	1836204	2.25
66	Zn	72	1	320213	2.97
75	As	72	1	230222	3.01
78	Se	72	1	33115	1.97
95	Mo	72	1	847403	4.74
107	Ag	115	1	2452545	1.08
111	Cd	115	1	408820	2.57
118	Sn	115	1	1103628	3.88
121	Sb	115	1	1230706	2.60
137	Ba	115	1	499778	2.62
205	Tl	165	1	3869076	1.42
208	Pb	165	1	5343153	2.69
232	Th	165	1	4952278	3.58
238	U	165	1	5206007	2.57

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	620193	0.94	616319	100.6	30 - 120	
45	Sc	1	2735333	0.46	2765666	98.9	30 - 120	
72	Ge	1	1710955	0.90	1702372	100.5	30 - 120	
115	In	1	4358787	0.78	4430923	98.4	30 - 120	
165	Ho	1	8050078	0.59	7989535	100.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\135_CCV.D\135_CCV.D#
Date Acquired: Dec 28 2011 11:37 pm
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	50.72	ppb	3.09	50	101.4	90 - 110	
51 V	72	1	51.70	ppb	4.77	50	103.4	90 - 110	
52 Cr	72	1	51.08	ppb	4.35	50	102.2	90 - 110	
55 Mn	72	1	50.63	ppb	4.16	50	101.3	90 - 110	
59 Co	72	1	51.07	ppb	2.80	50	102.1	90 - 110	
60 Ni	72	1	49.10	ppb	3.13	50	98.2	90 - 110	
63 Cu	72	1	49.86	ppb	3.65	50	99.7	90 - 110	
66 Zn	72	1	49.36	ppb	2.74	50	98.7	90 - 110	
75 As	72	1	49.78	ppb	2.27	50	99.6	90 - 110	
78 Se	72	1	48.83	ppb	5.38	50	97.7	90 - 110	
95 Mo	72	1	49.15	ppb	2.69	50	98.3	90 - 110	
107 Ag	115	1	50.24	ppb	3.07	50	100.5	90 - 110	
111 Cd	115	1	50.03	ppb	1.41	50	100.1	90 - 110	
118 Sn	115	1	48.86	ppb	1.26	50	97.7	90 - 110	
121 Sb	115	1	48.58	ppb	0.52	50	97.2	90 - 110	
137 Ba	115	1	49.80	ppb	1.07	50	99.6	90 - 110	
205 Tl	165	1	51.70	ppb	1.79	50	103.4	90 - 110	
208 Pb	165	1	49.83	ppb	2.88	50	99.7	90 - 110	
232 Th	165	1	51.52	ppb	4.50	50	103.0	90 - 110	
238 U	165	1	51.75	ppb	3.78	50	103.5	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	617962	3.00	616319	100.3	30 - 120	
45 Sc	1	2686265	0.31	2765666	97.1	30 - 120	
72 Ge	1	1701133	0.68	1702372	99.9	30 - 120	
115 In	1	4358901	1.98	4430923	98.4	30 - 120	
165 Ho	1	8060761	1.12	7989535	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\136_CCB.D\136_CCB.D#
Date Acquired: Dec 28 2011 11:40 pm
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.008	ppb	173.19	1.00	
51 V	72	1	0.005	ppb	336.64	1.00	
52 Cr	72	1	0.012	ppb	50.03	1.00	
55 Mn	72	1	0.008	ppb	77.26	1.00	
59 Co	72	1	0.010	ppb	16.91	1.00	
60 Ni	72	1	0.004	ppb	20.24	1.00	
63 Cu	72	1	0.005	ppb	57.54	1.00	
66 Zn	72	1	0.021	ppb	14.24	1.00	
75 As	72	1	0.011	ppb	45.36	1.00	
78 Se	72	1	-0.040	ppb	563.09	1.00	
95 Mo	72	1	0.009	ppb	118.16	1.00	
107 Ag	115	1	0.014	ppb	15.88	1.00	
111 Cd	115	1	0.009	ppb	17.20	1.00	
118 Sn	115	1	0.039	ppb	17.97	1.00	
121 Sb	115	1	0.020	ppb	13.49	1.00	
137 Ba	115	1	0.008	ppb	94.30	1.00	
205 Tl	165	1	0.034	ppb	10.13	1.00	
208 Pb	165	1	0.013	ppb	13.28	1.00	
232 Th	165	1	0.081	ppb	2.46	1.00	
238 U	165	1	0.019	ppb	2.26	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	617031	1.51	616319	100.1	30 - 120	
45 Sc	1	2678234	1.15	2765666	96.8	30 - 120	
72 Ge	1	1687690	0.78	1702372	99.1	30 - 120	
115 In	1	4356710	0.74	4430923	98.3	30 - 120	
165 Ho	1	7913923	1.01	7989535	99.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :Max. Number of Failures Allowed
0 :ISTD Failures
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\137WASH.D\137WASH.D#
Date Acquired: Dec 28 2011 11:43 pm
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.939 ppb	12.91	1.30	
51 V	72	1	4.938 ppb	2.31	6.50	
52 Cr	72	1	2.002 ppb	3.06	2.60	
55 Mn	72	1	1.048 ppb	2.95	1.30	
59 Co	72	1	0.986 ppb	1.82	1.30	
60 Ni	72	1	1.929 ppb	2.15	2.60	
63 Cu	72	1	1.946 ppb	2.72	2.60	
66 Zn	72	1	9.973 ppb	1.34	13.00	
75 As	72	1	4.959 ppb	2.41	6.50	
78 Se	72	1	4.848 ppb	7.74	6.50	
95 Mo	72	1	1.923 ppb	2.59	2.60	
107 Ag	115	1	5.206 ppb	1.78	6.50	
111 Cd	115	1	1.028 ppb	2.27	1.30	
118 Sn	115	1	10.060 ppb	2.65	13.00	
121 Sb	115	1	1.971 ppb	3.62	2.60	
137 Ba	115	1	1.017 ppb	2.62	1.30	
205 Tl	165	1	1.038 ppb	1.49	1.30	
208 Pb	165	1	1.003 ppb	2.31	1.30	
232 Th	165	1	2.069 ppb	5.70	2.60	
238 U	165	1	1.032 ppb	2.55	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	623364	1.28	616319	101.1	30 - 120	
45 Sc	1	2677262	0.88	2765666	96.8	30 - 120	
72 Ge	1	1703974	0.35	1702372	100.1	30 - 120	
115 In	1	4307093	0.41	4430923	97.2	30 - 120	
165 Ho	1	7960660	0.35	7989535	99.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\138_BLK.D\138_BLK.D#
Date Acquired: Dec 28 2011 11:46 pm
Operator: LRD
Sample Name: mb 280-101487/1-a
Misc Info: BLANK 101487 6020
Vial Number: 4504
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Fail

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.002 ppb	173.19	2.00	
51 V	72	1	0.158 ppb	112.21	2.00	
52 Cr	72	1	-0.012 ppb	67.27	2.00	
55 Mn	72	1	-0.013 ppb	30.69	2.00	
59 Co	72	1	0.004 ppb	35.16	2.00	
60 Ni	72	1	0.006 ppb	52.19	2.00	
63 Cu	72	1	-0.004 ppb	50.19	2.00	
66 Zn	72	1	0.108 ppb	14.80	2.00	
75 As	72	1	-0.023 ppb	8.01	2.00	
78 Se	72	1	-0.528 ppb	25.77	2.00	
95 Mo	72	1	-0.012 ppb	42.50	2.00	
107 Ag	115	1	0.003 ppb	16.70	2.00	
111 Cd	115	1	-0.001 ppb	152.41	2.00	
118 Sn	115	1	0.073 ppb	29.79	2.00	
121 Sb	115	1	0.027 ppb	31.19	2.00	
137 Ba	115	1	0.090 ppb	13.71	2.00	
205 Tl	165	1	0.010 ppb	12.62	2.00	
208 Pb	165	1	0.004 ppb	40.54	2.00	
232 Th	165	1	0.037 ppb	16.42	2.00	
238 U	165	1	0.005 ppb	20.75	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	1387112	1.59	616319	225.1	30 - 120	IS Fai
45 Sc	1	5228115	2.67	2765666	189.0	30 - 120	IS Fai
72 Ge	1	3205590	1.47	1702372	188.3	30 - 120	IS Fai
115 In	1	8476068	2.09	4430923	191.3	30 - 120	IS Fai
165 Ho	1	15628466	0.93	7989535	195.6	30 - 120	IS Fai

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
5 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\139_LCS.D\139_LCS.D#
Date Acquired: Dec 28 2011 11:49 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-101487/2-a
Misc Info: LCS
Vial Number: 4505
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	43.07	1.47	40	107.7	80 - 120	
51 V	72	1	43.87	1.82	40	109.7	80 - 120	
52 Cr	72	1	43.56	1.21	40	108.9	80 - 120	
55 Mn	72	1	42.16	1.70	40	105.4	80 - 120	
59 Co	72	1	43.73	2.24	40	109.3	80 - 120	
60 Ni	72	1	42.23	1.91	40	105.6	80 - 120	
63 Cu	72	1	42.16	2.38	40	105.4	80 - 120	
66 Zn	72	1	41.41	2.32	40	103.5	80 - 120	
75 As	72	1	41.54	1.94	40	103.9	80 - 120	
78 Se	72	1	41.40	4.34	40	103.5	80 - 120	
95 Mo	72	1	42.31	1.37	40	105.8	80 - 120	
107 Ag	115	1	44.67	0.76	40	111.7	80 - 120	
111 Cd	115	1	43.02	1.86	40	107.6	80 - 120	
118 Sn	115	1	42.76	1.01	40	106.9	80 - 120	
121 Sb	115	1	41.09	0.69	40	102.7	80 - 120	
137 Ba	115	1	43.64	0.46	40	109.1	80 - 120	
205 Tl	165	1	45.06	0.94	40	112.7	80 - 120	
208 Pb	165	1	43.88	1.14	40	109.7	80 - 120	
232 Th	165	1	45.70	3.11	40	114.3	80 - 120	
238 U	165	1	45.54	1.49	40	113.9	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	564721	1.00	616319	91.6	30 - 120	
45 Sc	1	2539088	1.97	2765666	91.8	30 - 120	
72 Ge	1	1594136	3.03	1702372	93.6	30 - 120	
115 In	1	4050890	0.76	4430923	91.4	30 - 120	
165 Ho	1	7391626	1.39	7989535	92.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Labratory Control Spike Duplicate Sample (LCSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\140LCSD.D\140LCSD.D#
Date Acquired: Dec 28 2011 11:52 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcsd 280-101487/3-a
Misc Info: LCSD
Vial Number: 4506
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: LCSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\139_LCS.D\139_LCS.D#

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9 Be	6	1	43.86 ppb	1.15	43.07	1.82	2000	
51 V	72	1	43.47 ppb	3.72	43.87	0.92	2000	
52 Cr	72	1	43.99 ppb	2.81	43.56	0.98	2000	
55 Mn	72	1	43.06 ppb	2.31	42.16	2.11	2000	
59 Co	72	1	43.56 ppb	1.66	43.73	0.39	2000	
60 Ni	72	1	42.32 ppb	0.27	42.23	0.21	2000	
63 Cu	72	1	41.96 ppb	1.04	42.16	0.48	2000	
66 Zn	72	1	41.19 ppb	1.11	41.41	0.53	2000	
75 As	72	1	41.29 ppb	1.53	41.54	0.60	2000	
78 Se	72	1	41.38 ppb	1.10	41.40	0.05	2000	
95 Mo	72	1	42.53 ppb	1.14	42.31	0.52	2000	
107 Ag	115	1	45.31 ppb	0.91	44.67	1.42	2000	
111 Cd	115	1	43.05 ppb	1.01	43.02	0.07	2000	
118 Sn	115	1	42.84 ppb	1.37	42.76	0.19	2000	
121 Sb	115	1	41.26 ppb	1.35	41.09	0.41	2000	
137 Ba	115	1	43.80 ppb	0.81	43.64	0.37	2000	
205 Tl	165	1	45.44 ppb	1.84	45.06	0.84	2000	
208 Pb	165	1	44.49 ppb	1.02	43.88	1.38	2000	
232 Th	165	1	46.49 ppb	2.34	45.70	1.71	2000	
238 U	165	1	46.55 ppb	2.55	45.54	2.19	2000	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	575703	2.40	616319	93.4	30 - 120	
45 Sc	1	2516731	1.49	2765666	91.0	30 - 120	
72 Ge	1	1591933	2.46	1702372	93.5	30 - 120	
115 In	1	4038318	1.62	4430923	91.1	30 - 120	
165 Ho	1	7325386	1.26	7989535	91.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\141_BLK.D\141_BLK.D#
Date Acquired: Dec 28 2011 11:55 pm
Operator: LRD
Sample Name: mb 280-101487/1-a
Misc Info: BLANK 101487 6020
Vial Number: 4504
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.004 ppb	173.19	2.00	
51 V	72	1	0.003 ppb	141.16	2.00	
52 Cr	72	1	0.032 ppb	8.90	2.00	
55 Mn	72	1	0.015 ppb	88.77	2.00	
59 Co	72	1	0.005 ppb	48.56	2.00	
60 Ni	72	1	0.017 ppb	24.50	2.00	
63 Cu	72	1	0.028 ppb	20.40	2.00	
66 Zn	72	1	1.074 ppb	2.76	2.00	
75 As	72	1	0.011 ppb	21.98	2.00	
78 Se	72	1	0.383 ppb	43.26	2.00	
95 Mo	72	1	-0.012 ppb	46.77	2.00	
107 Ag	115	1	0.013 ppb	16.44	2.00	
111 Cd	115	1	0.008 ppb	63.21	2.00	
118 Sn	115	1	0.062 ppb	8.21	2.00	
121 Sb	115	1	0.057 ppb	7.33	2.00	
137 Ba	115	1	0.014 ppb	43.63	2.00	
205 Tl	165	1	0.032 ppb	21.69	2.00	
208 Pb	165	1	0.015 ppb	5.90	2.00	
232 Th	165	1	0.083 ppb	0.40	2.00	
238 U	165	1	0.014 ppb	11.09	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	566786	1.56	616319	92.0	30 - 120	
45 Sc	1	2494134	2.12	2765666	90.2	30 - 120	
72 Ge	1	1567770	2.24	1702372	92.1	30 - 120	
115 In	1	4040270	2.11	4430923	91.2	30 - 120	
165 Ho	1	7429730	0.58	7989535	93.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\142AREF.D\142AREF.D#
Date Acquired: Dec 28 2011 11:58 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24082-a-1-b
Misc Info:
Vial Number: 4507
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.04	0.04	ppb	42.95	3600	
51 V	72	1	0.54	0.54	ppb	3.50	3600	
52 Cr	72	1	0.37	0.37	ppb	1.14	3600	
55 Mn	72	1	154.80	154.80	ppb	0.96	18000	
59 Co	72	1	6.17	6.17	ppb	0.68	3600	
60 Ni	72	1	1.40	1.40	ppb	5.43	3600	
63 Cu	72	1	1.28	1.28	ppb	0.91	3600	
66 Zn	72	1	13.45	13.45	ppb	1.08	3600	
75 As	72	1	48.23	48.23	ppb	0.14	3600	
78 Se	72	1	2.26	2.26	ppb	5.76	3600	
95 Mo	72	1	30.42	30.42	ppb	1.34	3600	
107 Ag	115	1	0.03	0.03	ppb	10.04	3600	
111 Cd	115	1	0.07	0.07	ppb	25.37	3600	
118 Sn	115	1	0.18	0.18	ppb	7.03	3600	
121 Sb	115	1	7.81	7.81	ppb	1.31	3600	
137 Ba	115	1	40.94	40.94	ppb	1.17	3600	
205 Tl	165	1	0.05	0.05	ppb	30.40	3600	
208 Pb	165	1	0.22	0.22	ppb	2.81	3600	
232 Th	165	1	0.09	0.09	ppb	7.19	1000	
238 U	165	1	4.93	4.93	ppb	1.13	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	547737	0.71	616319	88.9	30 - 120	
45 Sc	1	2498694	1.39	2765666	90.3	30 - 120	
72 Ge	1	1413226	1.56	1702372	83.0	30 - 120	
115 In	1	3834854	1.10	4430923	86.5	30 - 120	
165 Ho	1	7047365	0.66	7989535	88.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\143SDIL.D\143SDIL.D#
Date Acquired: Dec 29 2011 12:01 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24082-a-1-b SD@5
Misc Info: SERIAL DILUTION
Vial Number: 4508
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG122811.B\142AREF.D\142AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.01	ppb	173.21	0.01	119.1	90 - 110	
51 V	72	1	0.10	ppb	10.91	0.11	90.5	90 - 110	
52 Cr	72	1	0.07	ppb	13.52	0.07	96.6	90 - 110	
55 Mn	72	1	30.03	ppb	1.59	30.96	97.0	90 - 110	
59 Co	72	1	1.24	ppb	2.18	1.23	100.7	90 - 110	
60 Ni	72	1	0.27	ppb	3.13	0.28	95.6	90 - 110	
63 Cu	72	1	0.26	ppb	4.22	0.26	100.2	90 - 110	
66 Zn	72	1	19.39	ppb	1.04	2.69	720.8	90 - 110	
75 As	72	1	10.50	ppb	0.76	9.65	108.9	90 - 110	
78 Se	72	1	0.60	ppb	21.51	0.45	133.4	90 - 110	
95 Mo	72	1	5.86	ppb	1.80	6.08	96.3	90 - 110	
107 Ag	115	1	0.00	ppb	72.23	0.01	88.0	90 - 110	
111 Cd	115	1	0.01	ppb	47.96	0.01	71.6	90 - 110	
118 Sn	115	1	0.11	ppb	9.91	0.04	312.9	90 - 110	
121 Sb	115	1	1.92	ppb	4.13	1.56	122.8	90 - 110	
137 Ba	115	1	8.77	ppb	1.60	8.19	107.1	90 - 110	
205 Tl	165	1	0.01	ppb	5.87	0.01	46.6	90 - 110	
208 Pb	165	1	0.04	ppb	2.14	0.04	90.8	90 - 110	
232 Th	165	1	0.01	ppb	15.95	0.02	53.7	90 - 110	
238 U	165	1	1.09	ppb	2.20	0.99	111.1	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	572949	0.40	616319	93.0	30 - 120	
45 Sc	1	2499540	1.71	2765666	90.4	30 - 120	
72 Ge	1	1568317	1.11	1702372	92.1	30 - 120	
115 In	1	3964337	0.83	4430923	89.5	30 - 120	
165 Ho	1	7213082	0.21	7989535	90.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\144PDS.D\144PDS.D#
Date Acquired: Dec 29 2011 12:04 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24082-a-1-b PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 4509
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	198.00	0.04	ppb	0.63	200	99.0	75 - 125	
51 V	72	1	217.40	0.54	ppb	1.64	200	108.4	75 - 125	
52 Cr	72	1	213.10	0.37	ppb	1.13	200	106.4	75 - 125	
55 Mn	72	1	356.90	154.80	ppb	0.75	200	100.6	75 - 125	
59 Co	72	1	210.30	6.17	ppb	1.58	200	102.0	75 - 125	
60 Ni	72	1	210.40	1.40	ppb	0.59	200	104.5	75 - 125	
63 Cu	72	1	197.40	1.28	ppb	0.55	200	98.1	75 - 125	
66 Zn	72	1	191.10	13.45	ppb	0.94	200	89.5	75 - 125	
75 As	72	1	235.80	48.23	ppb	0.96	200	95.0	75 - 125	
78 Se	72	1	179.00	2.26	ppb	2.08	200	88.5	75 - 125	
95 Mo	72	1	249.50	30.42	ppb	2.36	200	108.3	75 - 125	
107 Ag	115	1	47.09	0.03	ppb	1.77	50	94.1	75 - 125	
111 Cd	115	1	187.10	0.07	ppb	1.39	200	93.5	75 - 125	
118 Sn	115	1	203.00	0.18	ppb	1.55	200	101.4	75 - 125	
121 Sb	115	1	193.90	7.81	ppb	0.78	200	93.3	75 - 125	
137 Ba	115	1	250.30	40.94	ppb	2.28	200	103.9	75 - 125	
205 Tl	165	1	184.70	0.05	ppb	0.82	200	92.3	75 - 125	
208 Pb	165	1	182.20	0.22	ppb	0.64	200	91.0	75 - 125	
232 Th	165	1	0.09	0.09	ppb	4.72	200	0.0	75 - 125	
238 U	165	1	195.10	4.93	ppb	1.50	200	95.2	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	556916	2.02	616319	90.4	30 - 120	
45 Sc	1	2530938	2.12	2765666	91.5	30 - 120	
72 Ge	1	1459398	1.91	1702372	85.7	30 - 120	
115 In	1	3867599	1.67	4430923	87.3	30 - 120	
165 Ho	1	7168640	1.10	7989535	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\145SMPL.D\145SMPL.D#
Date Acquired: Dec 29 2011 12:07 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24082-b-2-d
Misc Info:
Vial Number: 4510
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.03	0.03	ppb	86.62	3600	
51 V	72	1	1.79	1.79	ppb	1.63	3600	
52 Cr	72	1	1.17	1.17	ppb	4.91	3600	
55 Mn	72	1	255.60	255.60	ppb	1.21	18000	
59 Co	72	1	4.45	4.45	ppb	1.14	3600	
60 Ni	72	1	2.36	2.36	ppb	2.13	3600	
63 Cu	72	1	40.42	40.42	ppb	0.60	3600	
66 Zn	72	1	42.06	42.06	ppb	1.07	3600	
75 As	72	1	64.62	64.62	ppb	0.77	3600	
78 Se	72	1	2.32	2.32	ppb	10.42	3600	
95 Mo	72	1	29.00	29.00	ppb	0.98	3600	
107 Ag	115	1	0.11	0.11	ppb	11.62	3600	
111 Cd	115	1	0.13	0.13	ppb	2.21	3600	
118 Sn	115	1	3.15	3.15	ppb	6.34	3600	
121 Sb	115	1	9.06	9.06	ppb	1.06	3600	
137 Ba	115	1	60.21	60.21	ppb	1.04	3600	
205 Tl	165	1	0.05	0.05	ppb	12.93	3600	
208 Pb	165	1	0.91	0.91	ppb	1.35	3600	
232 Th	165	1	0.04	0.04	ppb	15.39	1000	
238 U	165	1	8.23	8.23	ppb	1.44	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	558108	1.39	616319	90.6	30 - 120	
45 Sc	1	2562878	1.70	2765666	92.7	30 - 120	
72 Ge	1	1457308	2.18	1702372	85.6	30 - 120	
115 In	1	3859963	1.49	4430923	87.1	30 - 120	
165 Ho	1	7011401	0.86	7989535	87.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\146_CCV.D\146_CCV.D#
Date Acquired: Dec 29 2011 12:09 am
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	52.48	ppb	2.55	50	105.0	90 - 110	
51 V	72	1	52.81	ppb	1.67	50	105.6	90 - 110	
52 Cr	72	1	52.49	ppb	1.62	50	105.0	90 - 110	
55 Mn	72	1	51.51	ppb	1.14	50	103.0	90 - 110	
59 Co	72	1	52.78	ppb	0.67	50	105.6	90 - 110	
60 Ni	72	1	51.46	ppb	1.24	50	102.9	90 - 110	
63 Cu	72	1	52.55	ppb	1.13	50	105.1	90 - 110	
66 Zn	72	1	51.11	ppb	0.56	50	102.2	90 - 110	
75 As	72	1	51.33	ppb	0.70	50	102.7	90 - 110	
78 Se	72	1	49.52	ppb	2.52	50	99.0	90 - 110	
95 Mo	72	1	50.73	ppb	0.71	50	101.5	90 - 110	
107 Ag	115	1	53.06	ppb	0.69	50	106.1	90 - 110	
111 Cd	115	1	52.64	ppb	0.91	50	105.3	90 - 110	
118 Sn	115	1	51.12	ppb	2.55	50	102.2	90 - 110	
121 Sb	115	1	50.83	ppb	1.58	50	101.7	90 - 110	
137 Ba	115	1	52.07	ppb	1.07	50	104.1	90 - 110	
205 Tl	165	1	54.01	ppb	0.71	50	108.0	90 - 110	
208 Pb	165	1	52.48	ppb	1.92	50	105.0	90 - 110	
232 Th	165	1	54.13	ppb	2.67	50	108.3	90 - 110	
238 U	165	1	54.36	ppb	1.64	50	108.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	607555	1.43	616319	98.6	30 - 120	
45 Sc	1	2645921	2.72	2765666	95.7	30 - 120	
72 Ge	1	1702736	1.83	1702372	100.0	30 - 120	
115 In	1	4242861	0.17	4430923	95.8	30 - 120	
165 Ho	1	7637053	0.57	7989535	95.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\147_CCB.D\147_CCB.D#
Date Acquired: Dec 29 2011 12:12 am
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.034	ppb	43.25	1.00	
51 V	72	1	-0.007	ppb	176.02	1.00	
52 Cr	72	1	0.013	ppb	16.45	1.00	
55 Mn	72	1	0.035	ppb	25.20	1.00	
59 Co	72	1	0.013	ppb	24.98	1.00	
60 Ni	72	1	0.014	ppb	71.97	1.00	
63 Cu	72	1	0.012	ppb	79.51	1.00	
66 Zn	72	1	0.032	ppb	16.41	1.00	
75 As	72	1	0.024	ppb	12.54	1.00	
78 Se	72	1	0.328	ppb	11.96	1.00	
95 Mo	72	1	0.004	ppb	225.84	1.00	
107 Ag	115	1	0.014	ppb	15.17	1.00	
111 Cd	115	1	0.018	ppb	51.44	1.00	
118 Sn	115	1	0.054	ppb	8.89	1.00	
121 Sb	115	1	0.030	ppb	9.81	1.00	
137 Ba	115	1	0.013	ppb	10.62	1.00	
205 Tl	165	1	0.030	ppb	12.24	1.00	
208 Pb	165	1	0.015	ppb	10.83	1.00	
232 Th	165	1	0.098	ppb	7.23	1.00	
238 U	165	1	0.024	ppb	4.06	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	595811	1.52	616319	96.7	30 - 120	
45 Sc	1	2682768	2.36	2765666	97.0	30 - 120	
72 Ge	1	1679178	0.53	1702372	98.6	30 - 120	
115 In	1	4221144	0.80	4430923	95.3	30 - 120	
165 Ho	1	7565830	0.65	7989535	94.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\148_BLK.D\148_BLK.D#
Date Acquired: Dec 29 2011 12:15 am
Operator: LRD
Sample Name: mb 280-101481/1-a
Misc Info: BLANK 101481 6020
Vial Number: 2201
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.021 ppb	69.80	2.00	
51 V	72	1	0.008 ppb	47.70	2.00	
52 Cr	72	1	0.010 ppb	116.04	2.00	
55 Mn	72	1	0.110 ppb	16.02	2.00	
59 Co	72	1	0.007 ppb	15.91	2.00	
60 Ni	72	1	0.019 ppb	53.51	2.00	
63 Cu	72	1	0.033 ppb	21.44	2.00	
66 Zn	72	1	0.947 ppb	2.69	2.00	
75 As	72	1	0.014 ppb	67.47	2.00	
78 Se	72	1	0.227 ppb	3.67	2.00	
95 Mo	72	1	-0.014 ppb	45.86	2.00	
107 Ag	115	1	0.005 ppb	50.07	2.00	
111 Cd	115	1	0.007 ppb	114.14	2.00	
118 Sn	115	1	0.073 ppb	5.45	2.00	
121 Sb	115	1	0.017 ppb	10.64	2.00	
137 Ba	115	1	0.036 ppb	21.20	2.00	
205 Tl	165	1	0.014 ppb	8.54	2.00	
208 Pb	165	1	0.014 ppb	17.26	2.00	
232 Th	165	1	0.015 ppb	19.35	2.00	
238 U	165	1	0.010 ppb	9.72	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	608759	1.23	616319	98.8	30 - 120	
45 Sc	1	2796062	1.46	2765666	101.1	30 - 120	
72 Ge	1	1724522	0.58	1702372	101.3	30 - 120	
115 In	1	4351535	0.19	4430923	98.2	30 - 120	
165 Ho	1	7856751	0.39	7989535	98.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\149_LCS.D\149_LCS.D#
Date Acquired: Dec 29 2011 12:18 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-101481/2-a
Misc Info: LCS
Vial Number: 2202
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	41.82	3.39	40	104.6	80 - 120	
51 V	72	1	41.78	2.69	40	104.5	80 - 120	
52 Cr	72	1	42.61	3.31	40	106.5	80 - 120	
55 Mn	72	1	40.84	1.50	40	102.1	80 - 120	
59 Co	72	1	41.89	0.95	40	104.7	80 - 120	
60 Ni	72	1	41.01	1.13	40	102.5	80 - 120	
63 Cu	72	1	41.26	0.99	40	103.2	80 - 120	
66 Zn	72	1	42.00	1.01	40	105.0	80 - 120	
75 As	72	1	42.36	0.54	40	105.9	80 - 120	
78 Se	72	1	41.98	0.78	40	105.0	80 - 120	
95 Mo	72	1	40.52	1.03	40	101.3	80 - 120	
107 Ag	115	1	43.51	0.39	40	108.8	80 - 120	
111 Cd	115	1	41.58	2.27	40	104.0	80 - 120	
118 Sn	115	1	40.19	1.95	40	100.5	80 - 120	
121 Sb	115	1	40.09	1.73	40	100.2	80 - 120	
137 Ba	115	1	41.18	1.55	40	103.0	80 - 120	
205 Tl	165	1	42.46	1.10	40	106.2	80 - 120	
208 Pb	165	1	41.32	1.08	40	103.3	80 - 120	
232 Th	165	1	41.56	4.45	40	103.9	80 - 120	
238 U	165	1	43.07	1.84	40	107.7	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	624450	1.66	616319	101.3	30 - 120	
45 Sc	1	2734302	0.90	2765666	98.9	30 - 120	
72 Ge	1	1697021	1.26	1702372	99.7	30 - 120	
115 In	1	4291475	0.37	4430923	96.9	30 - 120	
165 Ho	1	7775306	0.93	7989535	97.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Labratory Control Spike Duplicate Sample (LCSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\150LCSD.D\150LCSD.D#
Date Acquired: Dec 29 2011 12:21 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcsd 280-101481/3-a
Misc Info: LCSD
Vial Number: 2203
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: LCSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\149_LCS.D\149_LCS.D#

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9 Be	6	1	42.24 ppb	2.05	41.82	1.00	2000	
51 V	72	1	42.15 ppb	4.79	41.78	0.88	2000	
52 Cr	72	1	42.08 ppb	4.60	42.61	1.25	2000	
55 Mn	72	1	39.89 ppb	4.18	40.84	2.35	2000	
59 Co	72	1	41.76 ppb	2.63	41.89	0.31	2000	
60 Ni	72	1	40.61 ppb	3.96	41.01	0.98	2000	
63 Cu	72	1	40.82 ppb	3.49	41.26	1.07	2000	
66 Zn	72	1	41.71 ppb	3.42	42.00	0.69	2000	
75 As	72	1	42.08 ppb	2.83	42.36	0.66	2000	
78 Se	72	1	41.22 ppb	3.87	41.98	1.83	2000	
95 Mo	72	1	39.79 ppb	3.07	40.52	1.82	2000	
107 Ag	115	1	42.17 ppb	1.33	43.51	3.13	2000	
111 Cd	115	1	41.09 ppb	2.54	41.58	1.19	2000	
118 Sn	115	1	39.94 ppb	3.40	40.19	0.62	2000	
121 Sb	115	1	39.33 ppb	2.50	40.09	1.91	2000	
137 Ba	115	1	40.08 ppb	1.90	41.18	2.71	2000	
205 Tl	165	1	42.53 ppb	1.33	42.46	0.16	2000	
208 Pb	165	1	41.04 ppb	1.83	41.32	0.68	2000	
232 Th	165	1	41.71 ppb	4.56	41.56	0.36	2000	
238 U	165	1	42.51 ppb	2.48	43.07	1.31	2000	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	620051	1.90	616319	100.6	30 - 120	
45 Sc	1	2763119	0.52	2765666	99.9	30 - 120	
72 Ge	1	1699889	1.77	1702372	99.9	30 - 120	
115 In	1	4351131	1.27	4430923	98.2	30 - 120	
165 Ho	1	7769576	0.41	7989535	97.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\151AREF.D\151AREF.D#
Date Acquired: Dec 29 2011 12:24 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24082-b-1-e
Misc Info:
Vial Number: 2204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.04	0.04	ppb	22.00	3600	
51 V	72	1	0.44	0.44	ppb	13.80	3600	
52 Cr	72	1	0.51	0.51	ppb	2.18	3600	
55 Mn	72	1	137.90	137.90	ppb	1.18	18000	
59 Co	72	1	2.43	2.43	ppb	0.28	3600	
60 Ni	72	1	1.18	1.18	ppb	1.97	3600	
63 Cu	72	1	0.76	0.76	ppb	2.84	3600	
66 Zn	72	1	8.69	8.69	ppb	1.10	3600	
75 As	72	1	41.27	41.27	ppb	0.99	3600	
78 Se	72	1	1.21	1.21	ppb	18.68	3600	
95 Mo	72	1	21.76	21.76	ppb	1.43	3600	
107 Ag	115	1	0.02	0.02	ppb	21.16	3600	
111 Cd	115	1	0.06	0.06	ppb	13.50	3600	
118 Sn	115	1	0.19	0.19	ppb	6.76	3600	
121 Sb	115	1	6.44	6.44	ppb	3.31	3600	
137 Ba	115	1	38.45	38.45	ppb	2.15	3600	
205 Tl	165	1	0.07	0.07	ppb	35.02	3600	
208 Pb	165	1	0.12	0.12	ppb	20.57	3600	
232 Th	165	1	0.20	0.20	ppb	9.68	1000	
238 U	165	1	2.44	2.44	ppb	1.51	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	544789	0.50	616319	88.4	30 - 120	
45 Sc	1	2474699	1.21	2765666	89.5	30 - 120	
72 Ge	1	1454255	1.38	1702372	85.4	30 - 120	
115 In	1	3705981	0.82	4430923	83.6	30 - 120	
165 Ho	1	6814861	0.58	7989535	85.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\152SDIL.D\152SDIL.D#
Date Acquired: Dec 29 2011 12:27 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24082-b-1-e SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2205
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG122811.B\151AREF.D\151AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.01	ppb	86.64	0.01	117.5	90 - 110	
51 V	72	1	0.08	ppb	17.19	0.09	94.8	90 - 110	
52 Cr	72	1	0.10	ppb	7.47	0.10	97.6	90 - 110	
55 Mn	72	1	26.56	ppb	2.28	27.58	96.3	90 - 110	
59 Co	72	1	0.47	ppb	3.34	0.48	96.7	90 - 110	
60 Ni	72	1	0.24	ppb	4.51	0.24	103.2	90 - 110	
63 Cu	72	1	0.16	ppb	3.80	0.15	102.8	90 - 110	
66 Zn	72	1	1.87	ppb	0.25	1.74	107.6	90 - 110	
75 As	72	1	8.69	ppb	2.29	8.25	105.3	90 - 110	
78 Se	72	1	0.63	ppb	45.36	0.24	260.2	90 - 110	
95 Mo	72	1	4.29	ppb	3.11	4.35	98.6	90 - 110	
107 Ag	115	1	0.00	ppb	73.47	0.00	86.5	90 - 110	
111 Cd	115	1	0.01	ppb	19.48	0.01	95.9	90 - 110	
118 Sn	115	1	0.13	ppb	5.65	0.04	360.7	90 - 110	
121 Sb	115	1	1.36	ppb	4.26	1.29	105.3	90 - 110	
137 Ba	115	1	8.00	ppb	2.10	7.69	104.0	90 - 110	
205 Tl	165	1	0.01	ppb	14.43	0.01	52.6	90 - 110	
208 Pb	165	1	0.02	ppb	7.18	0.02	76.8	90 - 110	
232 Th	165	1	0.02	ppb	5.29	0.04	37.0	90 - 110	
238 U	165	1	0.52	ppb	4.87	0.49	107.2	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	577257	1.83	616319	93.7	30 - 120	
45 Sc	1	2536814	0.41	2765666	91.7	30 - 120	
72 Ge	1	1581751	0.76	1702372	92.9	30 - 120	
115 In	1	3917738	0.46	4430923	88.4	30 - 120	
165 Ho	1	7189623	0.49	7989535	90.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\153PDS.D\153PDS.D#
Date Acquired: Dec 29 2011 12:30 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24082-b-1-e PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 2206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	215.50	0.04	ppb	1.88	200	107.7	75 - 125	
51 V	72	1	221.50	0.44	ppb	2.27	200	110.5	75 - 125	
52 Cr	72	1	215.70	0.51	ppb	2.35	200	107.6	75 - 125	
55 Mn	72	1	342.90	137.90	ppb	2.95	200	101.5	75 - 125	
59 Co	72	1	212.80	2.43	ppb	2.36	200	105.1	75 - 125	
60 Ni	72	1	213.10	1.18	ppb	2.33	200	105.9	75 - 125	
63 Cu	72	1	202.90	0.76	ppb	1.44	200	101.1	75 - 125	
66 Zn	72	1	199.30	8.69	ppb	1.98	200	95.5	75 - 125	
75 As	72	1	245.30	41.27	ppb	1.80	200	101.7	75 - 125	
78 Se	72	1	195.90	1.21	ppb	1.42	200	97.4	75 - 125	
95 Mo	72	1	243.80	21.76	ppb	2.21	200	109.9	75 - 125	
107 Ag	115	1	51.22	0.02	ppb	1.02	50	102.4	75 - 125	
111 Cd	115	1	203.40	0.06	ppb	1.73	200	101.7	75 - 125	
118 Sn	115	1	213.90	0.19	ppb	1.81	200	106.9	75 - 125	
121 Sb	115	1	211.30	6.44	ppb	1.88	200	102.4	75 - 125	
137 Ba	115	1	257.40	38.45	ppb	1.59	200	107.9	75 - 125	
205 Tl	165	1	195.80	0.07	ppb	2.21	200	97.9	75 - 125	
208 Pb	165	1	194.20	0.12	ppb	2.64	200	97.0	75 - 125	
232 Th	165	1	0.09	0.20	ppb	4.55	200	0.0	75 - 125	
238 U	165	1	204.90	2.44	ppb	3.83	200	101.2	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	547236	1.28	616319	88.8	30 - 120	
45 Sc	1	2476897	1.77	2765666	89.6	30 - 120	
72 Ge	1	1471510	1.36	1702372	86.4	30 - 120	
115 In	1	3703714	0.81	4430923	83.6	30 - 120	
165 Ho	1	6809527	1.64	7989535	85.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\154SMPL.D\154SMPL.D#
Date Acquired: Dec 29 2011 12:32 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24082-a-2-c
Misc Info:
Vial Number: 2207
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.02	0.02	ppb	33.81	3600	
51 V	72	1	1.37	1.37	ppb	2.27	3600	
52 Cr	72	1	0.38	0.38	ppb	6.16	3600	
55 Mn	72	1	83.77	83.77	ppb	2.36	18000	
59 Co	72	1	1.57	1.57	ppb	2.75	3600	
60 Ni	72	1	1.16	1.16	ppb	4.64	3600	
63 Cu	72	1	4.78	4.78	ppb	0.92	3600	
66 Zn	72	1	5.28	5.28	ppb	3.24	3600	
75 As	72	1	67.39	67.39	ppb	1.77	3600	
78 Se	72	1	3.11	3.11	ppb	2.87	3600	
95 Mo	72	1	26.67	26.67	ppb	1.92	3600	
107 Ag	115	1	0.01	0.01	ppb	15.11	3600	
111 Cd	115	1	0.05	0.05	ppb	4.09	3600	
118 Sn	115	1	1.05	1.05	ppb	0.87	3600	
121 Sb	115	1	9.54	9.54	ppb	1.63	3600	
137 Ba	115	1	23.18	23.18	ppb	1.21	3600	
205 Tl	165	1	0.04	0.04	ppb	16.12	3600	
208 Pb	165	1	0.11	0.11	ppb	16.66	3600	
232 Th	165	1	0.02	0.02	ppb	27.63	1000	
238 U	165	1	8.02	8.02	ppb	1.38	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	550445	1.16	616319	89.3	30 - 120	
45 Sc	1	2507779	3.21	2765666	90.7	30 - 120	
72 Ge	1	1438583	3.79	1702372	84.5	30 - 120	
115 In	1	3665133	1.68	4430923	82.7	30 - 120	
165 Ho	1	6695922	0.91	7989535	83.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\155_CCV.D\155_CCV.D#
Date Acquired: Dec 29 2011 12:35 am
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	53.48	ppb	1.64	50	107.0	90 - 110	
51 V	72	1	54.34	ppb	1.30	50	108.7	90 - 110	
52 Cr	72	1	54.37	ppb	1.60	50	108.7	90 - 110	
55 Mn	72	1	54.14	ppb	0.84	50	108.3	90 - 110	
59 Co	72	1	54.15	ppb	1.95	50	108.3	90 - 110	
60 Ni	72	1	52.53	ppb	1.04	50	105.1	90 - 110	
63 Cu	72	1	53.91	ppb	2.96	50	107.8	90 - 110	
66 Zn	72	1	52.06	ppb	1.46	50	104.1	90 - 110	
75 As	72	1	52.54	ppb	0.98	50	105.1	90 - 110	
78 Se	72	1	52.14	ppb	5.65	50	104.3	90 - 110	
95 Mo	72	1	51.30	ppb	0.99	50	102.6	90 - 110	
107 Ag	115	1	53.97	ppb	0.74	50	107.9	90 - 110	
111 Cd	115	1	53.09	ppb	1.73	50	106.2	90 - 110	
118 Sn	115	1	51.59	ppb	1.35	50	103.2	90 - 110	
121 Sb	115	1	51.49	ppb	0.71	50	103.0	90 - 110	
137 Ba	115	1	52.43	ppb	0.56	50	104.9	90 - 110	
205 Tl	165	1	53.99	ppb	0.18	50	108.0	90 - 110	
208 Pb	165	1	52.86	ppb	0.62	50	105.7	90 - 110	
232 Th	165	1	53.83	ppb	2.90	50	107.7	90 - 110	
238 U	165	1	54.40	ppb	2.00	50	108.8	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	630629	1.52	616319	102.3	30 - 120	
45 Sc	1	2756383	1.00	2765666	99.7	30 - 120	
72 Ge	1	1714414	1.04	1702372	100.7	30 - 120	
115 In	1	4282041	0.72	4430923	96.6	30 - 120	
165 Ho	1	7654259	0.24	7989535	95.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\156_CCB.D\156_CCB.D#
Date Acquired: Dec 29 2011 12:38 am
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.008	ppb	86.62	1.00	
51 V	72	1	0.007	ppb	79.69	1.00	
52 Cr	72	1	0.020	ppb	24.90	1.00	
55 Mn	72	1	0.021	ppb	13.03	1.00	
59 Co	72	1	0.015	ppb	4.99	1.00	
60 Ni	72	1	0.017	ppb	27.80	1.00	
63 Cu	72	1	0.008	ppb	72.57	1.00	
66 Zn	72	1	0.026	ppb	57.22	1.00	
75 As	72	1	0.026	ppb	10.52	1.00	
78 Se	72	1	0.190	ppb	95.84	1.00	
95 Mo	72	1	-0.006	ppb	148.98	1.00	
107 Ag	115	1	0.015	ppb	24.98	1.00	
111 Cd	115	1	0.022	ppb	12.66	1.00	
118 Sn	115	1	0.059	ppb	5.51	1.00	
121 Sb	115	1	0.032	ppb	2.83	1.00	
137 Ba	115	1	0.014	ppb	30.75	1.00	
205 Tl	165	1	0.031	ppb	18.22	1.00	
208 Pb	165	1	0.014	ppb	10.84	1.00	
232 Th	165	1	0.102	ppb	9.39	1.00	
238 U	165	1	0.023	ppb	9.46	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	624611	2.89	616319	101.3	30 - 120	
45 Sc	1	2739109	1.04	2765666	99.0	30 - 120	
72 Ge	1	1721125	0.78	1702372	101.1	30 - 120	
115 In	1	4268729	1.18	4430923	96.3	30 - 120	
165 Ho	1	7669090	1.10	7989535	96.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\157SMPL.D\157SMPL.D#
Date Acquired: Dec 29 2011 12:41 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: BLANK
Misc Info: SOIL MDLV BLANK
Vial Number: 2504
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.02	0.02	ppb	114.31	3600	
51 V	72	1	0.01	0.01	ppb	30.16	3600	
52 Cr	72	1	0.06	0.06	ppb	19.83	3600	
55 Mn	72	1	0.23	0.23	ppb	4.14	18000	
59 Co	72	1	0.01	0.01	ppb	30.16	3600	
60 Ni	72	1	0.04	0.04	ppb	1.10	3600	
63 Cu	72	1	0.24	0.24	ppb	3.61	3600	
66 Zn	72	1	0.26	0.26	ppb	4.63	3600	
75 As	72	1	0.02	0.02	ppb	2.87	3600	
78 Se	72	1	0.42	0.42	ppb	8.85	3600	
95 Mo	72	1	-0.01	-0.01	ppb	23.98	3600	
107 Ag	115	1	0.01	0.01	ppb	14.54	3600	
111 Cd	115	1	0.01	0.01	ppb	27.11	3600	
118 Sn	115	1	0.11	0.11	ppb	9.14	3600	
121 Sb	115	1	0.02	0.02	ppb	13.72	3600	
137 Ba	115	1	0.11	0.11	ppb	5.64	3600	
205 Tl	165	1	0.02	0.02	ppb	17.33	3600	
208 Pb	165	1	0.11	0.11	ppb	0.58	3600	
232 Th	165	1	0.03	0.03	ppb	16.64	1000	
238 U	165	1	0.01	0.01	ppb	8.59	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	626442	0.75	616319	101.6	30 - 120	
45 Sc	1	2705781	0.52	2765666	97.8	30 - 120	
72 Ge	1	1691306	0.76	1702372	99.3	30 - 120	
115 In	1	4157487	0.56	4430923	93.8	30 - 120	
165 Ho	1	7444201	1.29	7989535	93.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\158SMPL.D\158SMPL.D#
Date Acquired: Dec 29 2011 12:44 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: MDLV 1
Misc Info: SOIL MDLV
Vial Number: 2505
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.11	0.11	ppb	23.91	3600	
51 V	72	1	0.20	0.20	ppb	2.79	3600	
52 Cr	72	1	0.42	0.42	ppb	1.71	3600	
55 Mn	72	1	0.32	0.32	ppb	3.52	18000	
59 Co	72	1	0.04	0.04	ppb	6.16	3600	
60 Ni	72	1	0.17	0.17	ppb	10.12	3600	
63 Cu	72	1	0.69	0.69	ppb	2.76	3600	
66 Zn	72	1	2.07	2.07	ppb	0.17	3600	
75 As	72	1	0.31	0.31	ppb	2.05	3600	
78 Se	72	1	0.60	0.60	ppb	31.90	3600	
95 Mo	72	1	0.08	0.08	ppb	5.07	3600	
107 Ag	115	1	0.12	0.12	ppb	4.84	3600	
111 Cd	115	1	0.06	0.06	ppb	37.88	3600	
118 Sn	115	1	0.40	0.40	ppb	1.37	3600	
121 Sb	115	1	0.09	0.09	ppb	8.45	3600	
137 Ba	115	1	0.58	0.58	ppb	5.60	3600	
205 Tl	165	1	0.03	0.03	ppb	11.17	3600	
208 Pb	165	1	0.22	0.22	ppb	1.69	3600	
232 Th	165	1	0.19	0.19	ppb	4.77	1000	
238 U	165	1	0.02	0.02	ppb	9.03	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	624702	3.57	616319	101.4	30 - 120	
45 Sc	1	2706592	1.64	2765666	97.9	30 - 120	
72 Ge	1	1687678	1.45	1702372	99.1	30 - 120	
115 In	1	4156909	1.31	4430923	93.8	30 - 120	
165 Ho	1	7445495	2.00	7989535	93.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\159SMPL.D\159SMPL.D#
Date Acquired: Dec 29 2011 12:47 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: MDLV 2
Misc Info: SOIL MDLV
Vial Number: 2506
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.17	0.17	ppb	17.95	3600	
51 V	72	1	0.22	0.22	ppb	7.12	3600	
52 Cr	72	1	0.42	0.42	ppb	6.21	3600	
55 Mn	72	1	0.22	0.22	ppb	2.34	18000	
59 Co	72	1	0.04	0.04	ppb	8.00	3600	
60 Ni	72	1	0.18	0.18	ppb	13.39	3600	
63 Cu	72	1	0.65	0.65	ppb	3.74	3600	
66 Zn	72	1	2.14	2.14	ppb	2.10	3600	
75 As	72	1	0.33	0.33	ppb	5.28	3600	
78 Se	72	1	0.79	0.79	ppb	15.29	3600	
95 Mo	72	1	0.07	0.07	ppb	20.57	3600	
107 Ag	115	1	0.14	0.14	ppb	7.19	3600	
111 Cd	115	1	0.06	0.06	ppb	18.81	3600	
118 Sn	115	1	0.41	0.41	ppb	1.14	3600	
121 Sb	115	1	0.09	0.09	ppb	3.17	3600	
137 Ba	115	1	0.52	0.52	ppb	4.22	3600	
205 Tl	165	1	0.03	0.03	ppb	7.20	3600	
208 Pb	165	1	0.21	0.21	ppb	2.72	3600	
232 Th	165	1	0.20	0.20	ppb	7.07	1000	
238 U	165	1	0.02	0.02	ppb	1.59	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	627453	3.45	616319	101.8	30 - 120	
45 Sc	1	2672557	0.41	2765666	96.6	30 - 120	
72 Ge	1	1665369	0.42	1702372	97.8	30 - 120	
115 In	1	4163323	1.10	4430923	94.0	30 - 120	
165 Ho	1	7357908	0.36	7989535	92.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\160_CCV.D\160_CCV.D#
Date Acquired: Dec 29 2011 12:50 am
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	54.40	ppb	3.28	50	108.8	90 - 110	
51	V	72	1	55.63	ppb	1.93	50	111.3	90 - 110	Fail
52	Cr	72	1	55.64	ppb	2.79	50	111.3	90 - 110	Fail
55	Mn	72	1	54.35	ppb	2.41	50	108.7	90 - 110	
59	Co	72	1	54.22	ppb	2.02	50	108.4	90 - 110	
60	Ni	72	1	52.96	ppb	1.55	50	105.9	90 - 110	
63	Cu	72	1	53.61	ppb	2.06	50	107.2	90 - 110	
66	Zn	72	1	52.67	ppb	1.78	50	105.3	90 - 110	
75	As	72	1	53.37	ppb	1.38	50	106.7	90 - 110	
78	Se	72	1	51.77	ppb	0.08	50	103.5	90 - 110	
95	Mo	72	1	52.13	ppb	2.75	50	104.3	90 - 110	
107	Ag	115	1	54.06	ppb	1.51	50	108.1	90 - 110	
111	Cd	115	1	54.02	ppb	1.39	50	108.0	90 - 110	
118	Sn	115	1	52.42	ppb	2.19	50	104.8	90 - 110	
121	Sb	115	1	52.43	ppb	1.61	50	104.9	90 - 110	
137	Ba	115	1	53.32	ppb	1.33	50	106.6	90 - 110	
205	Tl	165	1	54.89	ppb	0.37	50	109.8	90 - 110	
208	Pb	165	1	53.40	ppb	0.76	50	106.8	90 - 110	
232	Th	165	1	54.91	ppb	2.90	50	109.8	90 - 110	
238	U	165	1	55.25	ppb	1.51	50	110.5	90 - 110	Fail

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	627229	0.91	616319	101.8	30 - 120	
45	Sc	1	2714532	1.35	2765666	98.2	30 - 120	
72	Ge	1	1691465	0.50	1702372	99.4	30 - 120	
115	In	1	4187754	1.26	4430923	94.5	30 - 120	
165	Ho	1	7454338	0.90	7989535	93.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

3 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\161_CCB.D\161_CCB.D#
Date Acquired: Dec 29 2011 12:53 am
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.020	ppb	35.05	1.00	
51	V	72	1	-0.004	ppb	48.44	1.00	
52	Cr	72	1	0.016	ppb	34.07	1.00	
55	Mn	72	1	0.012	ppb	99.83	1.00	
59	Co	72	1	0.009	ppb	34.91	1.00	
60	Ni	72	1	0.004	ppb	101.28	1.00	
63	Cu	72	1	0.009	ppb	65.30	1.00	
66	Zn	72	1	0.030	ppb	17.87	1.00	
75	As	72	1	0.018	ppb	38.58	1.00	
78	Se	72	1	0.090	ppb	102.79	1.00	
95	Mo	72	1	-0.008	ppb	106.29	1.00	
107	Ag	115	1	0.012	ppb	24.60	1.00	
111	Cd	115	1	0.012	ppb	51.92	1.00	
118	Sn	115	1	0.056	ppb	11.47	1.00	
121	Sb	115	1	0.023	ppb	4.27	1.00	
137	Ba	115	1	0.011	ppb	28.56	1.00	
205	Tl	165	1	0.031	ppb	10.04	1.00	
208	Pb	165	1	0.010	ppb	4.22	1.00	
232	Th	165	1	0.107	ppb	6.67	1.00	
238	U	165	1	0.020	ppb	6.27	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	622721	2.18	616319	101.0	30 - 120	
45	Sc	1	2672948	2.61	2765666	96.6	30 - 120	
72	Ge	1	1679365	1.67	1702372	98.6	30 - 120	
115	In	1	4197279	0.48	4430923	94.7	30 - 120	
165	Ho	1	7429058	0.60	7989535	93.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\162WASH.D\162WASH.D#
Date Acquired: Dec 29 2011 12:56 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.025 ppb	34.22	1.30	
51 V	72	1	0.219 ppb	20.75	6.50	
52 Cr	72	1	1.751 ppb	2.36	2.60	
55 Mn	72	1	0.966 ppb	6.22	1.30	
59 Co	72	1	0.085 ppb	18.03	1.30	
60 Ni	72	1	1.343 ppb	7.27	2.60	
63 Cu	72	1	0.585 ppb	8.41	2.60	
66 Zn	72	1	5.322 ppb	6.97	13.00	
75 As	72	1	0.859 ppb	2.68	6.50	
78 Se	72	1	0.902 ppb	24.18	6.50	
95 Mo	72	1	2861.000 ppb	2.41	2.60	
107 Ag	115	1	0.091 ppb	13.86	6.50	
111 Cd	115	1	0.928 ppb	15.44	1.30	
118 Sn	115	1	0.744 ppb	7.84	13.00	
121 Sb	115	1	0.425 ppb	3.80	2.60	
137 Ba	115	1	0.287 ppb	5.98	1.30	
205 Tl	165	1	0.072 ppb	27.98	1.30	
208 Pb	165	1	0.214 ppb	3.40	1.30	
232 Th	165	1	0.083 ppb	11.58	2.60	
238 U	165	1	0.014 ppb	2.44	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	515615	0.81	616319	83.7	30 - 120	
45 Sc	1	2237259	1.49	2765666	80.9	30 - 120	
72 Ge	1	1327439	0.65	1702372	78.0	30 - 120	
115 In	1	3243111	0.45	4430923	73.2	30 - 120	
165 Ho	1	6004279	0.57	7989535	75.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\163WASH.D\163WASH.D#
Date Acquired: Dec 29 2011 12:59 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.004 ppb	173.19	1.30	
51 V	72	1	-0.013 ppb	22.71	6.50	
52 Cr	72	1	0.017 ppb	25.39	2.60	
55 Mn	72	1	0.015 ppb	20.83	1.30	
59 Co	72	1	0.000 ppb	9209.80	1.30	
60 Ni	72	1	0.153 ppb	8.42	2.60	
63 Cu	72	1	0.005 ppb	183.06	2.60	
66 Zn	72	1	0.059 ppb	16.16	13.00	
75 As	72	1	0.001 ppb	208.06	6.50	
78 Se	72	1	0.293 ppb	49.30	6.50	
95 Mo	72	1	0.836 ppb	5.18	2.60	
107 Ag	115	1	0.001 ppb	31.51	6.50	
111 Cd	115	1	0.003 ppb	151.79	1.30	
118 Sn	115	1	0.002 ppb	150.90	13.00	
121 Sb	115	1	0.005 ppb	43.56	2.60	
137 Ba	115	1	0.003 ppb	140.30	1.30	
205 Tl	165	1	0.005 ppb	11.33	1.30	
208 Pb	165	1	0.001 ppb	51.17	1.30	
232 Th	165	1	0.007 ppb	18.22	2.60	
238 U	165	1	0.001 ppb	50.84	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	606568	3.20	616319	98.4	30 - 120	
45 Sc	1	2629294	1.59	2765666	95.1	30 - 120	
72 Ge	1	1661348	1.93	1702372	97.6	30 - 120	
115 In	1	4167613	0.92	4430923	94.1	30 - 120	
165 Ho	1	7444886	1.87	7989535	93.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\164WASH.D\164WASH.D#
Date Acquired: Dec 29 2011 01:01 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.004 ppb	173.20	1.30	
51 V	72	1	-0.009 ppb	221.82	6.50	
52 Cr	72	1	0.006 ppb	146.18	2.60	
55 Mn	72	1	0.017 ppb	186.78	1.30	
59 Co	72	1	0.002 ppb	239.96	1.30	
60 Ni	72	1	0.135 ppb	13.45	2.60	
63 Cu	72	1	-0.002 ppb	326.82	2.60	
66 Zn	72	1	0.081 ppb	51.43	13.00	
75 As	72	1	0.005 ppb	188.70	6.50	
78 Se	72	1	0.303 ppb	65.03	6.50	
95 Mo	72	1	0.196 ppb	19.99	2.60	
107 Ag	115	1	0.000 ppb	339.70	6.50	
111 Cd	115	1	0.009 ppb	91.34	1.30	
118 Sn	115	1	0.004 ppb	89.84	13.00	
121 Sb	115	1	0.005 ppb	52.30	2.60	
137 Ba	115	1	0.007 ppb	197.67	1.30	
205 Tl	165	1	0.005 ppb	62.31	1.30	
208 Pb	165	1	0.004 ppb	210.36	1.30	
232 Th	165	1	0.004 ppb	33.25	2.60	
238 U	165	1	0.004 ppb	84.06	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	609336	4.83	616319	98.9	30 - 120	
45 Sc	1	2719055	1.19	2765666	98.3	30 - 120	
72 Ge	1	1703377	2.26	1702372	100.1	30 - 120	
115 In	1	4239936	2.01	4430923	95.7	30 - 120	
165 Ho	1	7531340	3.09	7989535	94.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\165WASH.D\165WASH.D#
Date Acquired: Dec 29 2011 01:04 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 28 2011 11:35 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.004 ppb	173.22	1.30	
51 V	72	1	-0.001 ppb	1555.30	6.50	
52 Cr	72	1	0.003 ppb	167.97	2.60	
55 Mn	72	1	-0.008 ppb	40.26	1.30	
59 Co	72	1	0.001 ppb	138.96	1.30	
60 Ni	72	1	0.139 ppb	11.54	2.60	
63 Cu	72	1	-0.001 ppb	417.92	2.60	
66 Zn	72	1	0.048 ppb	26.75	13.00	
75 As	72	1	0.008 ppb	102.71	6.50	
78 Se	72	1	0.420 ppb	36.60	6.50	
95 Mo	72	1	0.060 ppb	4.17	2.60	
107 Ag	115	1	0.001 ppb	184.75	6.50	
111 Cd	115	1	0.004 ppb	39.29	1.30	
118 Sn	115	1	-0.004 ppb	97.85	13.00	
121 Sb	115	1	0.002 ppb	91.77	2.60	
137 Ba	115	1	-0.003 ppb	92.64	1.30	
205 Tl	165	1	0.001 ppb	53.45	1.30	
208 Pb	165	1	-0.001 ppb	120.87	1.30	
232 Th	165	1	0.003 ppb	66.51	2.60	
238 U	165	1	0.001 ppb	16.79	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	615899	1.93	616319	99.9	30 - 120	
45 Sc	1	2749847	1.37	2765666	99.4	30 - 120	
72 Ge	1	1701934	0.94	1702372	100.0	30 - 120	
115 In	1	4263235	1.63	4430923	96.2	30 - 120	
165 Ho	1	7564171	1.33	7989535	94.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\133CALB.D\133CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\166CALB.D\166CALB.D#
Date Acquired: Dec 29 2011 01:07 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: Cal Blank
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 28 2011 11:35 pm
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	7	86.67
51	V	72	1	363	36.33
52	Cr	72	1	1557	11.62
55	Mn	72	1	1293	9.14
59	Co	72	1	250	32.06
60	Ni	72	1	157	25.04
63	Cu	72	1	1153	14.51
66	Zn	72	1	517	9.30
75	As	72	1	125	8.34
78	Se	72	1	487	10.07
95	Mo	72	1	550	12.33
107	Ag	115	1	137	48.56
111	Cd	115	1	33	89.72
118	Sn	115	1	350	13.02
121	Sb	115	1	117	28.74
137	Ba	115	1	62	18.86
205	Tl	165	1	348	13.37
208	Pb	165	1	733	4.37
232	Th	165	1	383	18.30
238	U	165	1	334	10.78

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	616926	2.11
45	Sc	1	2724156	1.53
72	Ge	1	1704702	0.82
115	In	1	4208947	0.91
165	Ho	1	7510958	1.06

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#
Date Acquired: Dec 29 2011 01:10 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: IC-1192705
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:08 am
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	7	86.60
51	V	72	1	281	8.37
52	Cr	72	1	1480	13.46
55	Mn	72	1	1143	5.81
59	Co	72	1	177	15.69
60	Ni	72	1	87	32.61
63	Cu	72	1	853	3.53
66	Zn	72	1	347	7.07
75	As	72	1	125	17.67
78	Se	72	1	453	20.70
95	Mo	72	1	300	29.48
107	Ag	115	1	37	41.93
111	Cd	115	1	32	61.49
118	Sn	115	1	373	20.96
121	Sb	115	1	61	21.75
137	Ba	115	1	34	23.84
205	Tl	165	1	130	14.99
208	Pb	165	1	459	15.89
232	Th	165	1	177	13.69
238	U	165	1	81	7.94

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	619761	1.36
45	Sc	1	2746464	0.60
72	Ge	1	1696231	1.39
115	In	1	4222628	0.71
165	Ho	1	7383016	0.68

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\168ICAL.D\168ICAL.D#
Date Acquired: Dec 29 2011 01:13 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: IC-1192690
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:11 am
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	85649	2.24
51	V	72	1	2224485	1.19
52	Cr	72	1	2339202	3.31
55	Mn	72	1	2094594	2.49
59	Co	72	1	3198358	2.70
60	Ni	72	1	758068	3.06
63	Cu	72	1	1912601	2.32
66	Zn	72	1	331377	2.69
75	As	72	1	241320	2.90
78	Se	72	1	34585	5.19
95	Mo	72	1	869143	4.52
107	Ag	115	1	2473954	2.33
111	Cd	115	1	420445	3.56
118	Sn	115	1	1140805	4.62
121	Sb	115	1	1261038	3.88
137	Ba	115	1	507446	3.47
205	Tl	165	1	3794192	2.48
208	Pb	165	1	5209477	2.77
232	Th	165	1	4806621	4.96
238	U	165	1	5077744	4.75

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	612074	0.65	619761	98.8	30 - 120	
45	Sc	1	2676789	0.62	2746464	97.5	30 - 120	
72	Ge	1	1675214	0.79	1696231	98.8	30 - 120	
115	In	1	4158367	1.40	4222628	98.5	30 - 120	
165	Ho	1	7436665	1.46	7383016	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\169_CCV.D\169_CCV.D#
Date Acquired: Dec 29 2011 01:16 am
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	51.50	ppb	2.75	50	103.0	90 - 110	
51 V	72	1	51.05	ppb	0.74	50	102.1	90 - 110	
52 Cr	72	1	50.42	ppb	0.99	50	100.8	90 - 110	
55 Mn	72	1	50.24	ppb	1.13	50	100.5	90 - 110	
59 Co	72	1	50.32	ppb	2.42	50	100.6	90 - 110	
60 Ni	72	1	49.15	ppb	1.95	50	98.3	90 - 110	
63 Cu	72	1	50.32	ppb	3.96	50	100.6	90 - 110	
66 Zn	72	1	49.29	ppb	2.48	50	98.6	90 - 110	
75 As	72	1	49.78	ppb	1.62	50	99.6	90 - 110	
78 Se	72	1	48.80	ppb	4.60	50	97.6	90 - 110	
95 Mo	72	1	49.29	ppb	2.17	50	98.6	90 - 110	
107 Ag	115	1	50.58	ppb	0.42	50	101.2	90 - 110	
111 Cd	115	1	49.65	ppb	0.63	50	99.3	90 - 110	
118 Sn	115	1	48.02	ppb	1.20	50	96.0	90 - 110	
121 Sb	115	1	48.21	ppb	0.38	50	96.4	90 - 110	
137 Ba	115	1	49.35	ppb	0.74	50	98.7	90 - 110	
205 Tl	165	1	51.39	ppb	1.31	50	102.8	90 - 110	
208 Pb	165	1	50.21	ppb	2.49	50	100.4	90 - 110	
232 Th	165	1	51.22	ppb	4.33	50	102.4	90 - 110	
238 U	165	1	50.78	ppb	3.44	50	101.6	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	599524	1.33	619761	96.7	30 - 120	
45 Sc	1	2696641	0.29	2746464	98.2	30 - 120	
72 Ge	1	1686957	0.58	1696231	99.5	30 - 120	
115 In	1	4198441	1.28	4222628	99.4	30 - 120	
165 Ho	1	7456734	0.87	7383016	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\170_CCB.D\170_CCB.D#
Date Acquired: Dec 29 2011 01:19 am
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.012	ppb	204.33	1.00	
51 V	72	1	0.004	ppb	189.36	1.00	
52 Cr	72	1	0.018	ppb	29.64	1.00	
55 Mn	72	1	0.025	ppb	22.62	1.00	
59 Co	72	1	0.010	ppb	23.09	1.00	
60 Ni	72	1	0.020	ppb	54.22	1.00	
63 Cu	72	1	0.008	ppb	107.10	1.00	
66 Zn	72	1	0.018	ppb	61.32	1.00	
75 As	72	1	0.014	ppb	45.27	1.00	
78 Se	72	1	0.198	ppb	22.30	1.00	
95 Mo	72	1	0.012	ppb	82.05	1.00	
107 Ag	115	1	0.014	ppb	23.16	1.00	
111 Cd	115	1	0.014	ppb	62.08	1.00	
118 Sn	115	1	0.036	ppb	38.79	1.00	
121 Sb	115	1	0.024	ppb	1.88	1.00	
137 Ba	115	1	0.013	ppb	16.26	1.00	
205 Tl	165	1	0.036	ppb	13.10	1.00	
208 Pb	165	1	0.017	ppb	4.96	1.00	
232 Th	165	1	0.106	ppb	1.49	1.00	
238 U	165	1	0.024	ppb	5.43	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	603439	1.82	619761	97.4	30 - 120	
45 Sc	1	2666839	0.44	2746464	97.1	30 - 120	
72 Ge	1	1665815	0.25	1696231	98.2	30 - 120	
115 In	1	4181579	0.50	4222628	99.0	30 - 120	
165 Ho	1	7346239	0.47	7383016	99.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :Max. Number of Failures Allowed
0 :ISTD Failures
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\171WASH.D\171WASH.D#
Date Acquired: Dec 29 2011 01:22 am
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.015 ppb	3.29	1.30	
51 V	72	1	4.970 ppb	3.76	6.50	
52 Cr	72	1	2.015 ppb	6.66	2.60	
55 Mn	72	1	1.033 ppb	3.21	1.30	
59 Co	72	1	1.002 ppb	1.51	1.30	
60 Ni	72	1	1.997 ppb	3.33	2.60	
63 Cu	72	1	1.970 ppb	3.02	2.60	
66 Zn	72	1	9.957 ppb	3.27	13.00	
75 As	72	1	5.062 ppb	3.95	6.50	
78 Se	72	1	5.464 ppb	7.40	6.50	
95 Mo	72	1	2.018 ppb	1.38	2.60	
107 Ag	115	1	5.189 ppb	1.22	6.50	
111 Cd	115	1	1.044 ppb	1.11	1.30	
118 Sn	115	1	9.726 ppb	2.91	13.00	
121 Sb	115	1	1.949 ppb	1.88	2.60	
137 Ba	115	1	1.010 ppb	2.77	1.30	
205 Tl	165	1	1.033 ppb	2.13	1.30	
208 Pb	165	1	1.007 ppb	1.49	1.30	
232 Th	165	1	2.042 ppb	4.64	2.60	
238 U	165	1	1.018 ppb	2.28	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	610296	0.75	619761	98.5	30 - 120	
45 Sc	1	2691952	2.04	2746464	98.0	30 - 120	
72 Ge	1	1669390	0.89	1696231	98.4	30 - 120	
115 In	1	4193498	0.89	4222628	99.3	30 - 120	
165 Ho	1	7392423	0.82	7383016	100.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\172_BLK.D\172_BLK.D#
Date Acquired: Dec 29 2011 01:25 am
Operator: LRD
Sample Name: mb 280-101509/1-a
Misc Info: BLANK 101509 Soil/dOD4/6020A
Vial Number: 3108
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.004 ppb	194.47	2.00	
51 V	72	1	0.005 ppb	25.96	2.00	
52 Cr	72	1	0.043 ppb	8.17	2.00	
55 Mn	72	1	0.038 ppb	14.43	2.00	
59 Co	72	1	0.002 ppb	34.52	2.00	
60 Ni	72	1	0.058 ppb	24.60	2.00	
63 Cu	72	1	0.105 ppb	4.44	2.00	
66 Zn	72	1	0.173 ppb	5.39	2.00	
75 As	72	1	0.001 ppb	629.94	2.00	
78 Se	72	1	0.160 ppb	97.37	2.00	
95 Mo	72	1	-0.002 ppb	53.44	2.00	
107 Ag	115	1	0.006 ppb	15.22	2.00	
111 Cd	115	1	0.005 ppb	37.63	2.00	
118 Sn	115	1	0.108 ppb	10.69	2.00	
121 Sb	115	1	0.005 ppb	19.41	2.00	
137 Ba	115	1	0.057 ppb	6.24	2.00	
205 Tl	165	1	0.012 ppb	3.84	2.00	
208 Pb	165	1	0.062 ppb	1.94	2.00	
232 Th	165	1	0.033 ppb	9.67	2.00	
238 U	165	1	0.004 ppb	11.77	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	596106	1.71	619761	96.2	30 - 120	
45 Sc	1	2598937	0.29	2746464	94.6	30 - 120	
72 Ge	1	1641877	1.52	1696231	96.8	30 - 120	
115 In	1	4044580	0.34	4222628	95.8	30 - 120	
165 Ho	1	7226303	0.92	7383016	97.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\173_LCS.D\173_LCS.D#
Date Acquired: Dec 29 2011 01:28 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-101509/2-a
Misc Info: LCS
Vial Number: 3109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	36.61	3.65	40	91.5	80 - 120	
51 V	72	1	36.85	2.68	40	92.1	80 - 120	
52 Cr	72	1	37.61	3.08	40	94.0	80 - 120	
55 Mn	72	1	36.30	1.09	40	90.8	80 - 120	
59 Co	72	1	37.67	1.68	40	94.2	80 - 120	
60 Ni	72	1	37.23	0.75	40	93.1	80 - 120	
63 Cu	72	1	36.62	0.65	40	91.6	80 - 120	
66 Zn	72	1	35.62	1.00	40	89.1	80 - 120	
75 As	72	1	36.41	1.67	40	91.0	80 - 120	
78 Se	72	1	37.06	2.77	40	92.7	80 - 120	
95 Mo	72	1	37.39	1.63	40	93.5	80 - 120	
107 Ag	115	1	38.82	1.05	40	97.1	80 - 120	
111 Cd	115	1	36.73	1.28	40	91.8	80 - 120	
118 Sn	115	1	36.54	2.68	40	91.4	80 - 120	
121 Sb	115	1	35.99	1.67	40	90.0	80 - 120	
137 Ba	115	1	37.15	2.35	40	92.9	80 - 120	
205 Tl	165	1	38.73	0.95	40	96.8	80 - 120	
208 Pb	165	1	37.54	1.86	40	93.9	80 - 120	
232 Th	165	1	38.68	3.29	40	96.7	80 - 120	
238 U	165	1	39.12	1.90	40	97.8	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	605425	1.24	619761	97.7	30 - 120	
45 Sc	1	2617025	0.93	2746464	95.3	30 - 120	
72 Ge	1	1626048	1.28	1696231	95.9	30 - 120	
115 In	1	4056929	0.29	4222628	96.1	30 - 120	
165 Ho	1	7244925	1.29	7383016	98.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\174AREF.D\174AREF.D#
Date Acquired: Dec 29 2011 01:30 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23927-a-1-b
Misc Info:
Vial Number: 3110
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	3.81	3.81	ppb	5.45	3600	
51 V	72	1	164.40	164.40	ppb	0.48	3600	
52 Cr	72	1	101.20	101.20	ppb	0.97	3600	
55 Mn	72	1	1,204.00	1204.00	ppb	1.10	18000	
59 Co	72	1	47.07	47.07	ppb	1.16	3600	
60 Ni	72	1	85.68	85.68	ppb	0.78	3600	
63 Cu	72	1	50.93	50.93	ppb	1.01	3600	
66 Zn	72	1	228.90	228.90	ppb	0.88	3600	
75 As	72	1	18.74	18.74	ppb	1.62	3600	
78 Se	72	1	4.80	4.80	ppb	1.95	3600	
95 Mo	72	1	0.50	0.50	ppb	4.37	3600	
107 Ag	115	1	0.13	0.13	ppb	9.87	3600	
111 Cd	115	1	0.56	0.56	ppb	9.51	3600	
118 Sn	115	1	0.16	0.16	ppb	16.92	3600	
121 Sb	115	1	0.03	0.03	ppb	18.95	3600	
137 Ba	115	1	720.50	720.50	ppb	1.26	3600	
205 Tl	165	1	0.61	0.61	ppb	2.32	3600	
208 Pb	165	1	73.20	73.20	ppb	1.75	3600	
232 Th	165	1	27.99	27.99	ppb	3.02	1000	
238 U	165	1	2.99	2.99	ppb	2.70	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	560731	2.35	619761	90.5	30 - 120	
45 Sc	1	2688279	2.28	2746464	97.9	30 - 120	
72 Ge	1	1575347	1.84	1696231	92.9	30 - 120	
115 In	1	3785886	2.29	4222628	89.7	30 - 120	
165 Ho	1	6995859	0.46	7383016	94.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\175SDIL.D\175SDIL.D#
Date Acquired: Dec 29 2011 01:33 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23927-a-1-b SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3111
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG122811.B\174AREF.D\174AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.79	ppb	15.44	0.76	103.9	90 - 110	
51 V	72	1	31.02	ppb	1.60	32.88	94.3	90 - 110	
52 Cr	72	1	19.06	ppb	1.16	20.24	94.2	90 - 110	
55 Mn	72	1	232.60	ppb	1.04	240.80	96.6	90 - 110	
59 Co	72	1	8.80	ppb	2.02	9.41	93.4	90 - 110	
60 Ni	72	1	17.05	ppb	1.04	17.14	99.5	90 - 110	
63 Cu	72	1	9.89	ppb	1.49	10.19	97.0	90 - 110	
66 Zn	72	1	44.79	ppb	0.92	45.78	97.8	90 - 110	
75 As	72	1	3.67	ppb	2.97	3.75	98.0	90 - 110	
78 Se	72	1	1.03	ppb	16.78	0.96	107.4	90 - 110	
95 Mo	72	1	0.08	ppb	9.69	0.10	76.7	90 - 110	
107 Ag	115	1	0.03	ppb	8.63	0.03	95.2	90 - 110	
111 Cd	115	1	0.11	ppb	21.00	0.11	95.9	90 - 110	
118 Sn	115	1	0.03	ppb	27.99	0.03	95.6	90 - 110	
121 Sb	115	1	0.01	ppb	28.92	0.01	90.8	90 - 110	
137 Ba	115	1	135.20	ppb	1.91	144.10	93.8	90 - 110	
205 Tl	165	1	0.11	ppb	2.87	0.12	93.6	90 - 110	
208 Pb	165	1	13.89	ppb	0.81	14.64	94.9	90 - 110	
232 Th	165	1	5.17	ppb	3.01	5.60	92.3	90 - 110	
238 U	165	1	0.58	ppb	2.01	0.60	96.5	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	587488	0.88	619761	94.8	30 - 120	
45 Sc	1	2674074	0.27	2746464	97.4	30 - 120	
72 Ge	1	1653020	1.07	1696231	97.5	30 - 120	
115 In	1	4014503	1.00	4222628	95.1	30 - 120	
165 Ho	1	7365044	0.17	7383016	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\176PDS.D\176PDS.D#
Date Acquired: Dec 29 2011 01:36 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23927-a-1-b PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 3112
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	200.50	3.81	ppb	5.19	200	98.4	75 - 125	
51 V	72	1	336.10	164.40	ppb	1.35	200	92.2	75 - 125	
52 Cr	72	1	276.90	101.20	ppb	2.27	200	91.9	75 - 125	
55 Mn	72	1	1308.00	1204.00	ppb	2.69	200	93.2	75 - 125	
59 Co	72	1	223.70	47.07	ppb	3.10	200	90.5	75 - 125	
60 Ni	72	1	273.40	85.68	ppb	1.82	200	95.7	75 - 125	
63 Cu	72	1	227.10	50.93	ppb	2.54	200	90.5	75 - 125	
66 Zn	72	1	409.10	228.90	ppb	1.69	200	95.4	75 - 125	
75 As	72	1	203.80	18.74	ppb	0.76	200	93.2	75 - 125	
78 Se	72	1	181.50	4.80	ppb	1.35	200	88.6	75 - 125	
95 Mo	72	1	195.00	0.50	ppb	1.54	200	97.3	75 - 125	
107 Ag	115	1	50.18	0.13	ppb	0.82	50	100.1	75 - 125	
111 Cd	115	1	196.50	0.56	ppb	1.31	200	98.0	75 - 125	
118 Sn	115	1	196.80	0.16	ppb	3.03	200	98.3	75 - 125	
121 Sb	115	1	195.70	0.03	ppb	2.40	200	97.8	75 - 125	
137 Ba	115	1	881.00	720.50	ppb	3.07	200	95.7	75 - 125	
205 Tl	165	1	189.60	0.61	ppb	0.68	200	94.5	75 - 125	
208 Pb	165	1	256.00	73.20	ppb	1.59	200	93.7	75 - 125	
232 Th	165	1	26.86	27.99	ppb	3.59	200	11.8	75 - 125	
238 U	165	1	195.40	2.99	ppb	2.45	200	96.3	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	571757	3.22	619761	92.3	30 - 120	
45 Sc	1	2653994	0.99	2746464	96.6	30 - 120	
72 Ge	1	1582177	1.64	1696231	93.3	30 - 120	
115 In	1	3757034	1.45	4222628	89.0	30 - 120	
165 Ho	1	6971419	1.04	7383016	94.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\177_MS.D\177_MS.D#
Date Acquired: Dec 29 2011 01:39 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23927-a-1-c ms
Misc Info: MATRIX SPIKE
Vial Number: 3201
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	41.35	3.81	ppb	3.00	40	94.4	50 - 150	
51 V	72	1	205.80	164.40	ppb	3.49	40	100.7	50 - 150	
52 Cr	72	1	136.70	101.20	ppb	2.94	40	96.8	50 - 150	
55 Mn	72	1	1058.00	1204.00	ppb	3.31	40	85.0	50 - 150	
59 Co	72	1	76.68	47.07	ppb	3.31	40	88.1	50 - 150	
60 Ni	72	1	114.40	85.68	ppb	2.97	40	91.0	50 - 150	
63 Cu	72	1	83.91	50.93	ppb	3.32	40	92.3	50 - 150	
66 Zn	72	1	249.10	228.90	ppb	2.41	40	92.6	50 - 150	
75 As	72	1	51.07	18.74	ppb	2.07	40	86.9	50 - 150	
78 Se	72	1	36.40	4.80	ppb	2.95	40	81.2	50 - 150	
95 Mo	72	1	18.66	0.50	ppb	3.10	40	46.1	50 - 150	
107 Ag	115	1	35.71	0.13	ppb	1.15	40	89.0	50 - 150	
111 Cd	115	1	37.89	0.56	ppb	1.44	40	93.4	50 - 150	
118 Sn	115	1	0.67	0.16	ppb	6.87	40	1.7	50 - 150	
121 Sb	115	1	0.37	0.03	ppb	4.22	40	0.9	50 - 150	
137 Ba	115	1	670.80	720.50	ppb	2.43	40	88.2	50 - 150	
205 Tl	165	1	35.92	0.61	ppb	1.39	40	88.5	50 - 150	
208 Pb	165	1	104.50	73.20	ppb	1.94	40	92.3	50 - 150	
232 Th	165	1	64.51	27.99	ppb	3.36	40	94.9	50 - 150	
238 U	165	1	42.20	2.99	ppb	2.34	40	98.2	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	560122	1.08	619761	90.4	30 - 120	
45 Sc	1	2633751	0.58	2746464	95.9	30 - 120	
72 Ge	1	1556707	1.07	1696231	91.8	30 - 120	
115 In	1	3764038	0.07	4222628	89.1	30 - 120	
165 Ho	1	6925511	1.09	7383016	93.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\178_MSD.D\178_MSD.D#
Date Acquired: Dec 29 2011 01:42 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23927-a-1-d msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3202
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\177_MS.D\177_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	42.38	ppb	0.22	41.35	2.46	20	
51 V	72	1	190.50	ppb	2.16	205.80	7.72	20	
52 Cr	72	1	130.40	ppb	2.85	136.70	4.72	20	
55 Mn	72	1	1091.00	ppb	2.35	1058.00	3.07	20	
59 Co	72	1	79.55	ppb	1.88	76.68	3.67	20	
60 Ni	72	1	114.50	ppb	1.91	114.40	0.09	20	
63 Cu	72	1	83.14	ppb	1.45	83.91	0.92	20	
66 Zn	72	1	246.70	ppb	2.21	249.10	0.97	20	
75 As	72	1	50.61	ppb	1.61	51.07	0.90	20	
78 Se	72	1	34.73	ppb	5.02	36.40	4.70	20	
95 Mo	72	1	17.89	ppb	1.84	18.66	4.21	20	
107 Ag	115	1	35.97	ppb	2.08	35.71	0.73	20	
111 Cd	115	1	37.80	ppb	2.04	37.89	0.24	20	
118 Sn	115	1	0.57	ppb	1.95	0.67	16.93	20	
121 Sb	115	1	0.33	ppb	1.42	0.37	9.39	20	
137 Ba	115	1	657.30	ppb	0.64	670.80	2.03	20	
205 Tl	165	1	35.93	ppb	1.02	35.92	0.03	20	
208 Pb	165	1	105.10	ppb	1.48	104.50	0.57	20	
232 Th	165	1	63.95	ppb	1.73	64.51	0.87	20	
238 U	165	1	42.24	ppb	2.46	42.20	0.09	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	551158	1.68	619761	88.9	30 - 120	
45 Sc	1	2603390	1.26	2746464	94.8	30 - 120	
72 Ge	1	1553340	1.26	1696231	91.6	30 - 120	
115 In	1	3712323	0.72	4222628	87.9	30 - 120	
165 Ho	1	6914898	0.36	7383016	93.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\179SMPL.D\179SMPL.D#
Date Acquired: Dec 29 2011 01:45 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24078-b-6-a
Misc Info: 101267 6020 20X
Vial Number: 2408
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 20.00
Autodil Factor: Undiluted
Final Dil Factor: 20.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.17	0.01	ppb	219.35	3600	
51 V	72	1	2.09	0.10	ppb	20.59	3600	
52 Cr	72	1	5.18	0.26	ppb	4.69	3600	
55 Mn	72	1	10,662.00	533.10	ppb	1.99	18000	
59 Co	72	1	9.24	0.46	ppb	2.83	3600	
60 Ni	72	1	48.48	2.42	ppb	2.31	3600	
63 Cu	72	1	3.95	0.20	ppb	4.96	3600	
66 Zn	72	1	16,468.00	823.40	ppb	0.93	3600	
75 As	72	1	0.91	0.05	ppb	1.50	3600	
78 Se	72	1	2.68	0.13	ppb	145.00	3600	
95 Mo	72	1	1.71	0.09	ppb	29.04	3600	
107 Ag	115	1	0.18	0.01	ppb	26.43	3600	
111 Cd	115	1	1,625.60	81.28	ppb	2.60	3600	
118 Sn	115	1	1.50	0.07	ppb	6.91	3600	
121 Sb	115	1	0.32	0.02	ppb	15.99	3600	
137 Ba	115	1	50.42	2.52	ppb	0.85	3600	
205 Tl	165	1	0.68	0.03	ppb	23.32	3600	
208 Pb	165	1	6.78	0.34	ppb	3.32	3600	
232 Th	165	1	1.02	0.05	ppb	6.87	1000	
238 U	165	1	2.84	0.14	ppb	1.36	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	590277	1.11	619761	95.2	30 - 120	
45 Sc	1	2555490	1.32	2746464	93.0	30 - 120	
72 Ge	1	1627355	1.40	1696231	95.9	30 - 120	
115 In	1	4027161	0.81	4222628	95.4	30 - 120	
165 Ho	1	7301624	1.61	7383016	98.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\180SMPL.D\180SMPL.D#
Date Acquired: Dec 29 2011 01:47 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24078-b-7-a
Misc Info: 20X
Vial Number: 2409
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 20.00
Autodil Factor: Undiluted
Final Dil Factor: 20.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.00	0.00	ppb	9535.50	3600	
51 V	72	1	1.25	0.06	ppb	23.89	3600	
52 Cr	72	1	4.76	0.24	ppb	3.86	3600	
55 Mn	72	1	10,850.00	542.50	ppb	1.40	18000	
59 Co	72	1	8.92	0.45	ppb	2.16	3600	
60 Ni	72	1	49.38	2.47	ppb	1.44	3600	
63 Cu	72	1	3.63	0.18	ppb	4.50	3600	
66 Zn	72	1	16,630.00	831.50	ppb	0.94	3600	
75 As	72	1	0.73	0.04	ppb	4.63	3600	
78 Se	72	1	3.84	0.19	ppb	105.42	3600	
95 Mo	72	1	1.46	0.07	ppb	9.47	3600	
107 Ag	115	1	0.08	0.00	ppb	23.21	3600	
111 Cd	115	1	1,612.80	80.64	ppb	1.18	3600	
118 Sn	115	1	1.72	0.09	ppb	19.16	3600	
121 Sb	115	1	0.26	0.01	ppb	8.97	3600	
137 Ba	115	1	46.06	2.30	ppb	0.73	3600	
205 Tl	165	1	0.28	0.01	ppb	16.83	3600	
208 Pb	165	1	5.93	0.30	ppb	1.12	3600	
232 Th	165	1	0.36	0.02	ppb	19.67	1000	
238 U	165	1	2.49	0.12	ppb	2.23	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	602788	2.16	619761	97.3	30 - 120	
45 Sc	1	2563167	1.20	2746464	93.3	30 - 120	
72 Ge	1	1607404	0.76	1696231	94.8	30 - 120	
115 In	1	4050126	1.08	4222628	95.9	30 - 120	
165 Ho	1	7164548	0.93	7383016	97.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\181_CCV.D\181_CCV.D#
Date Acquired: Dec 29 2011 01:50 am
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	49.29	ppb	0.84	50	98.6	90 - 110	
51 V	72	1	50.21	ppb	1.78	50	100.4	90 - 110	
52 Cr	72	1	49.36	ppb	2.40	50	98.7	90 - 110	
55 Mn	72	1	49.31	ppb	4.44	50	98.6	90 - 110	
59 Co	72	1	49.67	ppb	3.54	50	99.3	90 - 110	
60 Ni	72	1	48.89	ppb	2.58	50	97.8	90 - 110	
63 Cu	72	1	49.35	ppb	3.15	50	98.7	90 - 110	
66 Zn	72	1	48.58	ppb	2.62	50	97.2	90 - 110	
75 As	72	1	48.89	ppb	1.61	50	97.8	90 - 110	
78 Se	72	1	48.05	ppb	1.96	50	96.1	90 - 110	
95 Mo	72	1	48.57	ppb	2.78	50	97.1	90 - 110	
107 Ag	115	1	49.59	ppb	1.19	50	99.2	90 - 110	
111 Cd	115	1	48.24	ppb	1.32	50	96.5	90 - 110	
118 Sn	115	1	46.58	ppb	2.69	50	93.2	90 - 110	
121 Sb	115	1	46.91	ppb	1.42	50	93.8	90 - 110	
137 Ba	115	1	48.78	ppb	1.23	50	97.6	90 - 110	
205 Tl	165	1	50.05	ppb	0.88	50	100.1	90 - 110	
208 Pb	165	1	48.40	ppb	1.76	50	96.8	90 - 110	
232 Th	165	1	49.98	ppb	3.86	50	100.0	90 - 110	
238 U	165	1	49.61	ppb	3.66	50	99.2	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	623990	1.45	619761	100.7	30 - 120	
45 Sc	1	2731293	0.79	2746464	99.4	30 - 120	
72 Ge	1	1684045	0.50	1696231	99.3	30 - 120	
115 In	1	4230112	0.72	4222628	100.2	30 - 120	
165 Ho	1	7595191	0.17	7383016	102.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\182_CCB.D\182_CCB.D#
Date Acquired: Dec 29 2011 01:53 am
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.000	ppb	96164.00	1.00	
51 V	72	1	0.010	ppb	92.99	1.00	
52 Cr	72	1	0.015	ppb	50.03	1.00	
55 Mn	72	1	0.043	ppb	15.19	1.00	
59 Co	72	1	0.012	ppb	20.92	1.00	
60 Ni	72	1	0.018	ppb	14.06	1.00	
63 Cu	72	1	0.008	ppb	52.12	1.00	
66 Zn	72	1	0.055	ppb	6.00	1.00	
75 As	72	1	0.018	ppb	28.98	1.00	
78 Se	72	1	0.255	ppb	21.45	1.00	
95 Mo	72	1	-0.008	ppb	10.05	1.00	
107 Ag	115	1	0.010	ppb	35.95	1.00	
111 Cd	115	1	0.016	ppb	30.25	1.00	
118 Sn	115	1	0.026	ppb	49.92	1.00	
121 Sb	115	1	0.019	ppb	21.62	1.00	
137 Ba	115	1	0.021	ppb	12.72	1.00	
205 Tl	165	1	0.029	ppb	11.50	1.00	
208 Pb	165	1	0.014	ppb	10.48	1.00	
232 Th	165	1	0.066	ppb	2.00	1.00	
238 U	165	1	0.018	ppb	4.12	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	623916	0.96	619761	100.7	30 - 120	
45 Sc	1	2733792	1.69	2746464	99.5	30 - 120	
72 Ge	1	1699069	1.82	1696231	100.2	30 - 120	
115 In	1	4226235	1.94	4222628	100.1	30 - 120	
165 Ho	1	7520687	0.92	7383016	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\183WASH.D\183WASH.D#
Date Acquired: Dec 29 2011 01:56 am
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.945 ppb	2.05	1.30	
51 V	72	1	4.750 ppb	1.32	6.50	
52 Cr	72	1	1.940 ppb	2.61	2.60	
55 Mn	72	1	1.024 ppb	2.92	1.30	
59 Co	72	1	0.953 ppb	0.96	1.30	
60 Ni	72	1	1.985 ppb	0.61	2.60	
63 Cu	72	1	1.901 ppb	1.48	2.60	
66 Zn	72	1	9.693 ppb	1.15	13.00	
75 As	72	1	4.858 ppb	1.77	6.50	
78 Se	72	1	4.412 ppb	13.32	6.50	
95 Mo	72	1	1.905 ppb	2.44	2.60	
107 Ag	115	1	5.056 ppb	3.67	6.50	
111 Cd	115	1	0.980 ppb	7.09	1.30	
118 Sn	115	1	9.424 ppb	2.96	13.00	
121 Sb	115	1	1.871 ppb	3.00	2.60	
137 Ba	115	1	0.970 ppb	5.92	1.30	
205 Tl	165	1	1.001 ppb	0.95	1.30	
208 Pb	165	1	0.975 ppb	1.98	1.30	
232 Th	165	1	2.003 ppb	3.96	2.60	
238 U	165	1	0.970 ppb	3.69	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	630230	2.05	619761	101.7	30 - 120	
45 Sc	1	2738324	2.09	2746464	99.7	30 - 120	
72 Ge	1	1709506	1.02	1696231	100.8	30 - 120	
115 In	1	4282969	0.62	4222628	101.4	30 - 120	
165 Ho	1	7606958	0.90	7383016	103.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\184_BLK.D\184_BLK.D#
Date Acquired: Dec 29 2011 01:59 am
Operator: LRD
Sample Name: mb 280-100942/1-a
Misc Info: BLANK 100942 Soil/DoD4/6020A
Vial Number: 3203
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.000 ppb	7259.80	2.00	
51 V	72	1	-0.009 ppb	89.15	2.00	
52 Cr	72	1	0.037 ppb	7.96	2.00	
55 Mn	72	1	0.120 ppb	4.30	2.00	
59 Co	72	1	0.002 ppb	41.06	2.00	
60 Ni	72	1	0.157 ppb	11.54	2.00	
63 Cu	72	1	0.193 ppb	7.67	2.00	
66 Zn	72	1	0.431 ppb	3.37	2.00	
75 As	72	1	0.000 ppb	3200.60	2.00	
78 Se	72	1	-0.130 ppb	93.86	2.00	
95 Mo	72	1	-0.016 ppb	29.40	2.00	
107 Ag	115	1	0.007 ppb	40.33	2.00	
111 Cd	115	1	0.002 ppb	256.50	2.00	
118 Sn	115	1	0.054 ppb	11.81	2.00	
121 Sb	115	1	0.002 ppb	51.26	2.00	
137 Ba	115	1	0.103 ppb	10.10	2.00	
205 Tl	165	1	0.011 ppb	14.94	2.00	
208 Pb	165	1	0.057 ppb	1.73	2.00	
232 Th	165	1	0.022 ppb	23.37	2.00	
238 U	165	1	0.007 ppb	3.97	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	607019	2.36	619761	97.9	30 - 120	
45 Sc	1	2650933	1.36	2746464	96.5	30 - 120	
72 Ge	1	1657877	1.03	1696231	97.7	30 - 120	
115 In	1	4126545	1.75	4222628	97.7	30 - 120	
165 Ho	1	7407634	1.23	7383016	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\185_LCS.D\185_LCS.D#
Date Acquired: Dec 29 2011 02:02 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-100942/2-a
Misc Info: LCS
Vial Number: 3204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	36.12	0.83	40	90.3	80 - 120	
51 V	72	1	37.70	4.34	40	94.3	80 - 120	
52 Cr	72	1	37.44	3.09	40	93.6	80 - 120	
55 Mn	72	1	36.25	1.69	40	90.6	80 - 120	
59 Co	72	1	37.80	3.53	40	94.5	80 - 120	
60 Ni	72	1	37.13	2.31	40	92.8	80 - 120	
63 Cu	72	1	37.20	2.05	40	93.0	80 - 120	
66 Zn	72	1	36.11	1.95	40	90.3	80 - 120	
75 As	72	1	36.40	1.20	40	91.0	80 - 120	
78 Se	72	1	35.21	4.90	40	88.0	80 - 120	
95 Mo	72	1	36.71	0.63	40	91.8	80 - 120	
107 Ag	115	1	38.28	2.15	40	95.7	80 - 120	
111 Cd	115	1	36.53	2.39	40	91.3	80 - 120	
118 Sn	115	1	35.58	2.15	40	89.0	80 - 120	
121 Sb	115	1	35.29	2.20	40	88.2	80 - 120	
137 Ba	115	1	37.49	3.34	40	93.7	80 - 120	
205 Tl	165	1	38.27	2.01	40	95.7	80 - 120	
208 Pb	165	1	37.69	1.78	40	94.2	80 - 120	
232 Th	165	1	38.04	3.65	40	95.1	80 - 120	
238 U	165	1	39.35	2.29	40	98.4	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	608555	0.82	619761	98.2	30 - 120	
45 Sc	1	2651779	0.67	2746464	96.6	30 - 120	
72 Ge	1	1644910	0.43	1696231	97.0	30 - 120	
115 In	1	4130299	0.81	4222628	97.8	30 - 120	
165 Ho	1	7344129	0.42	7383016	99.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\186SMPL.D\186SMPL.D#
Date Acquired: Dec 29 2011 02:05 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-1-c
Misc Info:
Vial Number: 3205
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.28	0.28	ppb	18.63	3600	
51 V	72	1	15.33	15.33	ppb	0.82	3600	
52 Cr	72	1	11.23	11.23	ppb	1.03	3600	
55 Mn	72	1	63.74	63.74	ppb	0.37	18000	
59 Co	72	1	2.90	2.90	ppb	0.45	3600	
60 Ni	72	1	7.81	7.81	ppb	0.77	3600	
63 Cu	72	1	5.63	5.63	ppb	1.33	3600	
66 Zn	72	1	22.73	22.73	ppb	0.85	3600	
75 As	72	1	3.28	3.28	ppb	1.69	3600	
78 Se	72	1	0.66	0.66	ppb	41.08	3600	
95 Mo	72	1	0.93	0.93	ppb	0.76	3600	
107 Ag	115	1	0.03	0.03	ppb	11.82	3600	
111 Cd	115	1	0.05	0.05	ppb	36.06	3600	
118 Sn	115	1	0.12	0.12	ppb	2.39	3600	
121 Sb	115	1	0.02	0.02	ppb	4.94	3600	
137 Ba	115	1	28.52	28.52	ppb	2.56	3600	
205 Tl	165	1	0.14	0.14	ppb	11.95	3600	
208 Pb	165	1	5.31	5.31	ppb	0.84	3600	
232 Th	165	1	2.81	2.81	ppb	1.29	1000	
238 U	165	1	0.69	0.69	ppb	2.50	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	608169	1.04	619761	98.1	30 - 120	
45 Sc	1	2734323	1.31	2746464	99.6	30 - 120	
72 Ge	1	1680500	1.80	1696231	99.1	30 - 120	
115 In	1	4195883	0.44	4222628	99.4	30 - 120	
165 Ho	1	7553744	0.56	7383016	102.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\187SMPL.D\187SMPL.D#
Date Acquired: Dec 29 2011 02:08 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-2-c
Misc Info:
Vial Number: 3206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.26	0.26	ppb	44.86	3600	
51 V	72	1	16.43	16.43	ppb	1.58	3600	
52 Cr	72	1	12.36	12.36	ppb	0.84	3600	
55 Mn	72	1	59.44	59.44	ppb	1.24	18000	
59 Co	72	1	3.11	3.11	ppb	2.74	3600	
60 Ni	72	1	8.36	8.36	ppb	3.46	3600	
63 Cu	72	1	9.34	9.34	ppb	2.48	3600	
66 Zn	72	1	68.32	68.32	ppb	1.77	3600	
75 As	72	1	3.29	3.29	ppb	2.05	3600	
78 Se	72	1	0.62	0.62	ppb	37.89	3600	
95 Mo	72	1	0.85	0.85	ppb	2.97	3600	
107 Ag	115	1	0.02	0.02	ppb	10.31	3600	
111 Cd	115	1	0.07	0.07	ppb	32.70	3600	
118 Sn	115	1	0.10	0.10	ppb	7.57	3600	
121 Sb	115	1	0.01	0.01	ppb	23.37	3600	
137 Ba	115	1	26.76	26.76	ppb	0.67	3600	
205 Tl	165	1	0.09	0.09	ppb	4.84	3600	
208 Pb	165	1	5.12	5.12	ppb	2.34	3600	
232 Th	165	1	3.03	3.03	ppb	3.99	1000	
238 U	165	1	0.75	0.75	ppb	2.61	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	608763	1.77	619761	98.2	30 - 120	
45 Sc	1	2707387	0.54	2746464	98.6	30 - 120	
72 Ge	1	1686120	1.10	1696231	99.4	30 - 120	
115 In	1	4140249	0.70	4222628	98.0	30 - 120	
165 Ho	1	7465145	1.40	7383016	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\188SMPL.D\188SMPL.D#
Date Acquired: Dec 29 2011 02:11 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-3-c
Misc Info:
Vial Number: 3207
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.21	0.21	ppb	26.64	3600	
51 V	72	1	10.87	10.87	ppb	2.04	3600	
52 Cr	72	1	8.50	8.50	ppb	2.05	3600	
55 Mn	72	1	65.91	65.91	ppb	2.95	18000	
59 Co	72	1	2.23	2.23	ppb	2.32	3600	
60 Ni	72	1	6.23	6.23	ppb	2.81	3600	
63 Cu	72	1	43.63	43.63	ppb	1.84	3600	
66 Zn	72	1	71.82	71.82	ppb	1.75	3600	
75 As	72	1	2.52	2.52	ppb	2.24	3600	
78 Se	72	1	0.53	0.53	ppb	36.32	3600	
95 Mo	72	1	0.45	0.45	ppb	6.44	3600	
107 Ag	115	1	0.03	0.03	ppb	12.48	3600	
111 Cd	115	1	0.05	0.05	ppb	26.92	3600	
118 Sn	115	1	0.20	0.20	ppb	4.61	3600	
121 Sb	115	1	0.11	0.11	ppb	0.42	3600	
137 Ba	115	1	16.96	16.96	ppb	2.76	3600	
205 Tl	165	1	0.06	0.06	ppb	10.60	3600	
208 Pb	165	1	47.99	47.99	ppb	0.90	3600	
232 Th	165	1	2.06	2.06	ppb	1.57	1000	
238 U	165	1	0.51	0.51	ppb	1.69	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	608433	1.99	619761	98.2	30 - 120	
45 Sc	1	2710646	0.76	2746464	98.7	30 - 120	
72 Ge	1	1694135	1.57	1696231	99.9	30 - 120	
115 In	1	4224026	1.35	4222628	100.0	30 - 120	
165 Ho	1	7521943	1.44	7383016	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\189SMPL.D\189SMPL.D#
Date Acquired: Dec 29 2011 02:14 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-4-c
Misc Info:
Vial Number: 3208
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.19	0.19	ppb	12.01	3600	
51 V	72	1	5.75	5.75	ppb	1.14	3600	
52 Cr	72	1	6.63	6.63	ppb	2.94	3600	
55 Mn	72	1	17.72	17.72	ppb	3.24	18000	
59 Co	72	1	1.50	1.50	ppb	2.71	3600	
60 Ni	72	1	4.70	4.70	ppb	1.87	3600	
63 Cu	72	1	2.74	2.74	ppb	1.74	3600	
66 Zn	72	1	11.57	11.57	ppb	3.57	3600	
75 As	72	1	1.44	1.44	ppb	3.13	3600	
78 Se	72	1	0.59	0.59	ppb	49.09	3600	
95 Mo	72	1	0.48	0.48	ppb	13.28	3600	
107 Ag	115	1	0.01	0.01	ppb	15.08	3600	
111 Cd	115	1	0.03	0.03	ppb	55.59	3600	
118 Sn	115	1	0.07	0.07	ppb	12.25	3600	
121 Sb	115	1	0.01	0.01	ppb	15.13	3600	
137 Ba	115	1	7.54	7.54	ppb	1.83	3600	
205 Tl	165	1	0.02	0.02	ppb	6.68	3600	
208 Pb	165	1	2.40	2.40	ppb	2.68	3600	
232 Th	165	1	1.11	1.11	ppb	4.73	1000	
238 U	165	1	0.30	0.30	ppb	3.14	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	612211	3.03	619761	98.8	30 - 120	
45 Sc	1	2762629	1.76	2746464	100.6	30 - 120	
72 Ge	1	1690327	1.95	1696231	99.7	30 - 120	
115 In	1	4190658	0.54	4222628	99.2	30 - 120	
165 Ho	1	7563302	1.61	7383016	102.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\190SMPL.D\190SMPL.D#
Date Acquired: Dec 29 2011 02:17 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-5-c
Misc Info:
Vial Number: 3209
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.29	0.29	ppb	18.16	3600	
51 V	72	1	14.20	14.20	ppb	1.71	3600	
52 Cr	72	1	10.47	10.47	ppb	1.89	3600	
55 Mn	72	1	85.72	85.72	ppb	1.03	18000	
59 Co	72	1	2.75	2.75	ppb	0.96	3600	
60 Ni	72	1	7.06	7.06	ppb	0.40	3600	
63 Cu	72	1	58.48	58.48	ppb	1.15	3600	
66 Zn	72	1	261.40	261.40	ppb	1.73	3600	
75 As	72	1	3.16	3.16	ppb	0.76	3600	
78 Se	72	1	0.75	0.75	ppb	1.85	3600	
95 Mo	72	1	0.67	0.67	ppb	3.98	3600	
107 Ag	115	1	0.02	0.02	ppb	23.28	3600	
111 Cd	115	1	0.07	0.07	ppb	17.49	3600	
118 Sn	115	1	0.23	0.23	ppb	4.60	3600	
121 Sb	115	1	0.02	0.02	ppb	8.87	3600	
137 Ba	115	1	29.21	29.21	ppb	0.86	3600	
205 Tl	165	1	0.07	0.07	ppb	2.98	3600	
208 Pb	165	1	12.87	12.87	ppb	1.85	3600	
232 Th	165	1	2.62	2.62	ppb	1.35	1000	
238 U	165	1	0.63	0.63	ppb	2.10	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	608180	1.82	619761	98.1	30 - 120	
45 Sc	1	2772748	1.71	2746464	101.0	30 - 120	
72 Ge	1	1684749	1.62	1696231	99.3	30 - 120	
115 In	1	4199054	1.55	4222628	99.4	30 - 120	
165 Ho	1	7430655	0.97	7383016	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\191SMPL.D\191SMPL.D#
Date Acquired: Dec 29 2011 02:19 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-6-c
Misc Info:
Vial Number: 3210
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.29	0.29	ppb	19.07	3600	
51 V	72	1	15.98	15.98	ppb	3.14	3600	
52 Cr	72	1	12.04	12.04	ppb	2.70	3600	
55 Mn	72	1	69.92	69.92	ppb	1.89	18000	
59 Co	72	1	3.09	3.09	ppb	2.07	3600	
60 Ni	72	1	7.70	7.70	ppb	3.17	3600	
63 Cu	72	1	4.37	4.37	ppb	2.70	3600	
66 Zn	72	1	78.31	78.31	ppb	3.07	3600	
75 As	72	1	3.15	3.15	ppb	1.64	3600	
78 Se	72	1	0.55	0.55	ppb	45.97	3600	
95 Mo	72	1	0.57	0.57	ppb	2.36	3600	
107 Ag	115	1	0.02	0.02	ppb	11.39	3600	
111 Cd	115	1	0.07	0.07	ppb	27.41	3600	
118 Sn	115	1	0.07	0.07	ppb	8.19	3600	
121 Sb	115	1	0.00	0.00	ppb	17.96	3600	
137 Ba	115	1	25.39	25.39	ppb	1.52	3600	
205 Tl	165	1	0.07	0.07	ppb	4.50	3600	
208 Pb	165	1	5.11	5.11	ppb	0.82	3600	
232 Th	165	1	2.80	2.80	ppb	2.17	1000	
238 U	165	1	0.66	0.66	ppb	1.56	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	615129	3.31	619761	99.3	30 - 120	
45 Sc	1	2726060	0.92	2746464	99.3	30 - 120	
72 Ge	1	1687720	0.82	1696231	99.5	30 - 120	
115 In	1	4152942	1.21	4222628	98.3	30 - 120	
165 Ho	1	7490424	0.81	7383016	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\192SMPL.D\192SMPL.D#
Date Acquired: Dec 29 2011 02:22 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-7-c
Misc Info:
Vial Number: 3211
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.32	0.32	ppb	14.25	3600	
51 V	72	1	17.43	17.43	ppb	2.21	3600	
52 Cr	72	1	12.44	12.44	ppb	2.43	3600	
55 Mn	72	1	104.10	104.10	ppb	1.81	18000	
59 Co	72	1	3.23	3.23	ppb	1.44	3600	
60 Ni	72	1	7.72	7.72	ppb	2.22	3600	
63 Cu	72	1	78.10	78.10	ppb	1.76	3600	
66 Zn	72	1	401.40	401.40	ppb	2.87	3600	
75 As	72	1	3.96	3.96	ppb	2.23	3600	
78 Se	72	1	0.82	0.82	ppb	25.20	3600	
95 Mo	72	1	0.46	0.46	ppb	4.15	3600	
107 Ag	115	1	0.03	0.03	ppb	9.21	3600	
111 Cd	115	1	0.09	0.09	ppb	14.46	3600	
118 Sn	115	1	0.21	0.21	ppb	2.60	3600	
121 Sb	115	1	0.02	0.02	ppb	5.27	3600	
137 Ba	115	1	38.65	38.65	ppb	1.49	3600	
205 Tl	165	1	0.09	0.09	ppb	2.63	3600	
208 Pb	165	1	10.18	10.18	ppb	1.37	3600	
232 Th	165	1	3.17	3.17	ppb	2.16	1000	
238 U	165	1	0.67	0.67	ppb	4.10	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	601011	1.32	619761	97.0	30 - 120	
45 Sc	1	2770104	2.03	2746464	100.9	30 - 120	
72 Ge	1	1687241	0.58	1696231	99.5	30 - 120	
115 In	1	4191407	2.16	4222628	99.3	30 - 120	
165 Ho	1	7456829	1.04	7383016	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\193_CCV.D\193_CCV.D#
Date Acquired: Dec 29 2011 02:25 am
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	49.73	ppb	2.06	50	99.5	90 - 110	
51 V	72	1	50.16	ppb	1.42	50	100.3	90 - 110	
52 Cr	72	1	49.60	ppb	0.94	50	99.2	90 - 110	
55 Mn	72	1	50.02	ppb	1.15	50	100.0	90 - 110	
59 Co	72	1	50.52	ppb	0.90	50	101.0	90 - 110	
60 Ni	72	1	48.81	ppb	1.52	50	97.6	90 - 110	
63 Cu	72	1	50.11	ppb	2.67	50	100.2	90 - 110	
66 Zn	72	1	48.89	ppb	1.67	50	97.8	90 - 110	
75 As	72	1	49.08	ppb	1.54	50	98.2	90 - 110	
78 Se	72	1	47.96	ppb	2.73	50	95.9	90 - 110	
95 Mo	72	1	48.09	ppb	1.65	50	96.2	90 - 110	
107 Ag	115	1	49.40	ppb	1.51	50	98.8	90 - 110	
111 Cd	115	1	47.86	ppb	1.12	50	95.7	90 - 110	
118 Sn	115	1	46.49	ppb	1.89	50	93.0	90 - 110	
121 Sb	115	1	46.34	ppb	1.55	50	92.7	90 - 110	
137 Ba	115	1	47.72	ppb	0.87	50	95.4	90 - 110	
205 Tl	165	1	49.94	ppb	1.27	50	99.9	90 - 110	
208 Pb	165	1	48.82	ppb	1.32	50	97.6	90 - 110	
232 Th	165	1	50.54	ppb	1.77	50	101.1	90 - 110	
238 U	165	1	49.93	ppb	1.79	50	99.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	612790	2.32	619761	98.9	30 - 120	
45 Sc	1	2790347	1.21	2746464	101.6	30 - 120	
72 Ge	1	1713000	0.65	1696231	101.0	30 - 120	
115 In	1	4350631	1.03	4222628	103.0	30 - 120	
165 Ho	1	7611010	0.91	7383016	103.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\194_CCB.D\194_CCB.D#
Date Acquired: Dec 29 2011 02:28 am
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.008	ppb	83.64	1.00	
51 V	72	1	-0.002	ppb	469.81	1.00	
52 Cr	72	1	0.007	ppb	25.37	1.00	
55 Mn	72	1	0.016	ppb	34.62	1.00	
59 Co	72	1	0.009	ppb	41.38	1.00	
60 Ni	72	1	0.008	ppb	87.27	1.00	
63 Cu	72	1	0.004	ppb	171.38	1.00	
66 Zn	72	1	0.039	ppb	33.22	1.00	
75 As	72	1	0.009	ppb	27.41	1.00	
78 Se	72	1	0.227	ppb	100.88	1.00	
95 Mo	72	1	-0.003	ppb	208.48	1.00	
107 Ag	115	1	0.011	ppb	0.81	1.00	
111 Cd	115	1	0.006	ppb	95.98	1.00	
118 Sn	115	1	0.026	ppb	74.47	1.00	
121 Sb	115	1	0.017	ppb	5.62	1.00	
137 Ba	115	1	0.015	ppb	24.18	1.00	
205 Tl	165	1	0.026	ppb	15.28	1.00	
208 Pb	165	1	0.011	ppb	12.20	1.00	
232 Th	165	1	0.054	ppb	5.75	1.00	
238 U	165	1	0.017	ppb	12.62	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	610067	2.30	619761	98.4	30 - 120	
45 Sc	1	2774669	1.05	2746464	101.0	30 - 120	
72 Ge	1	1718396	1.13	1696231	101.3	30 - 120	
115 In	1	4255961	1.30	4222628	100.8	30 - 120	
165 Ho	1	7553968	0.61	7383016	102.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\195WASH.D\195WASH.D#
Date Acquired: Dec 29 2011 02:31 am
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.934 ppb	5.42	1.30	
51 V	72	1	4.867 ppb	4.19	6.50	
52 Cr	72	1	1.987 ppb	2.57	2.60	
55 Mn	72	1	1.008 ppb	2.10	1.30	
59 Co	72	1	0.959 ppb	1.59	1.30	
60 Ni	72	1	1.996 ppb	5.24	2.60	
63 Cu	72	1	1.958 ppb	2.52	2.60	
66 Zn	72	1	9.828 ppb	2.50	13.00	
75 As	72	1	4.985 ppb	2.96	6.50	
78 Se	72	1	5.022 ppb	5.31	6.50	
95 Mo	72	1	1.940 ppb	2.80	2.60	
107 Ag	115	1	5.000 ppb	0.54	6.50	
111 Cd	115	1	1.028 ppb	3.91	1.30	
118 Sn	115	1	9.511 ppb	1.00	13.00	
121 Sb	115	1	1.858 ppb	1.03	2.60	
137 Ba	115	1	0.972 ppb	2.97	1.30	
205 Tl	165	1	0.995 ppb	2.77	1.30	
208 Pb	165	1	0.965 ppb	3.55	1.30	
232 Th	165	1	1.986 ppb	5.36	2.60	
238 U	165	1	0.972 ppb	4.95	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	630102	0.31	619761	101.7	30 - 120	
45 Sc	1	2799171	1.77	2746464	101.9	30 - 120	
72 Ge	1	1716909	0.72	1696231	101.2	30 - 120	
115 In	1	4332395	1.33	4222628	102.6	30 - 120	
165 Ho	1	7630935	1.65	7383016	103.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\196SMPL.D\196SMPL.D#
Date Acquired: Dec 29 2011 02:34 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-8-c
Misc Info:
Vial Number: 3212
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.36	0.36	ppb	7.69	3600	
51 V	72	1	17.99	17.99	ppb	4.25	3600	
52 Cr	72	1	12.57	12.57	ppb	4.52	3600	
55 Mn	72	1	80.50	80.50	ppb	3.09	18000	
59 Co	72	1	3.23	3.23	ppb	2.67	3600	
60 Ni	72	1	7.85	7.85	ppb	2.46	3600	
63 Cu	72	1	4.51	4.51	ppb	5.48	3600	
66 Zn	72	1	15.55	15.55	ppb	3.41	3600	
75 As	72	1	2.77	2.77	ppb	3.35	3600	
78 Se	72	1	0.82	0.82	ppb	22.14	3600	
95 Mo	72	1	0.36	0.36	ppb	3.11	3600	
107 Ag	115	1	0.03	0.03	ppb	11.71	3600	
111 Cd	115	1	0.08	0.08	ppb	26.98	3600	
118 Sn	115	1	0.08	0.08	ppb	14.94	3600	
121 Sb	115	1	0.01	0.01	ppb	32.99	3600	
137 Ba	115	1	54.40	54.40	ppb	3.97	3600	
205 Tl	165	1	0.10	0.10	ppb	1.71	3600	
208 Pb	165	1	6.29	6.29	ppb	1.12	3600	
232 Th	165	1	3.48	3.48	ppb	3.16	1000	
238 U	165	1	0.68	0.68	ppb	1.49	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	624038	1.60	619761	100.7	30 - 120	
45 Sc	1	2785505	2.93	2746464	101.4	30 - 120	
72 Ge	1	1694452	2.52	1696231	99.9	30 - 120	
115 In	1	4182312	1.96	4222628	99.0	30 - 120	
165 Ho	1	7564545	0.97	7383016	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\197SMPL.D\197SMPL.D#
Date Acquired: Dec 29 2011 02:37 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-9-c
Misc Info:
Vial Number: 3301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.47	0.47	ppb	14.30	3600	
51 V	72	1	20.84	20.84	ppb	5.01	3600	
52 Cr	72	1	14.52	14.52	ppb	1.31	3600	
55 Mn	72	1	147.30	147.30	ppb	1.36	18000	
59 Co	72	1	4.07	4.07	ppb	0.96	3600	
60 Ni	72	1	8.98	8.98	ppb	0.76	3600	
63 Cu	72	1	43.35	43.35	ppb	0.67	3600	
66 Zn	72	1	165.10	165.10	ppb	0.59	3600	
75 As	72	1	4.36	4.36	ppb	2.28	3600	
78 Se	72	1	0.95	0.95	ppb	10.69	3600	
95 Mo	72	1	0.57	0.57	ppb	3.89	3600	
107 Ag	115	1	0.02	0.02	ppb	8.73	3600	
111 Cd	115	1	0.09	0.09	ppb	32.55	3600	
118 Sn	115	1	0.21	0.21	ppb	5.17	3600	
121 Sb	115	1	0.02	0.02	ppb	14.24	3600	
137 Ba	115	1	46.90	46.90	ppb	1.20	3600	
205 Tl	165	1	0.11	0.11	ppb	1.90	3600	
208 Pb	165	1	14.42	14.42	ppb	2.56	3600	
232 Th	165	1	4.13	4.13	ppb	3.42	1000	
238 U	165	1	0.85	0.85	ppb	1.75	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	620350	1.81	619761	100.1	30 - 120	
45 Sc	1	2777434	1.58	2746464	101.1	30 - 120	
72 Ge	1	1685990	1.44	1696231	99.4	30 - 120	
115 In	1	4150007	1.08	4222628	98.3	30 - 120	
165 Ho	1	7467740	0.89	7383016	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\198SMPL.D\198SMPL.D#
Date Acquired: Dec 29 2011 02:40 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-10-c
Misc Info:
Vial Number: 3302
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.60	0.60	ppb	14.95	3600	
51 V	72	1	32.66	32.66	ppb	2.18	3600	
52 Cr	72	1	20.54	20.54	ppb	2.32	3600	
55 Mn	72	1	175.00	175.00	ppb	2.31	18000	
59 Co	72	1	6.01	6.01	ppb	1.23	3600	
60 Ni	72	1	12.44	12.44	ppb	1.63	3600	
63 Cu	72	1	13.46	13.46	ppb	1.11	3600	
66 Zn	72	1	56.78	56.78	ppb	0.60	3600	
75 As	72	1	5.87	5.87	ppb	2.07	3600	
78 Se	72	1	1.03	1.03	ppb	17.41	3600	
95 Mo	72	1	0.68	0.68	ppb	1.61	3600	
107 Ag	115	1	0.03	0.03	ppb	12.14	3600	
111 Cd	115	1	0.13	0.13	ppb	11.83	3600	
118 Sn	115	1	0.10	0.10	ppb	9.17	3600	
121 Sb	115	1	0.01	0.01	ppb	15.64	3600	
137 Ba	115	1	73.76	73.76	ppb	1.73	3600	
205 Tl	165	1	0.17	0.17	ppb	4.80	3600	
208 Pb	165	1	10.99	10.99	ppb	0.71	3600	
232 Th	165	1	5.72	5.72	ppb	2.24	1000	
238 U	165	1	1.07	1.07	ppb	1.91	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	618186	1.80	619761	99.7	30 - 120	
45 Sc	1	2753699	1.10	2746464	100.3	30 - 120	
72 Ge	1	1705172	0.98	1696231	100.5	30 - 120	
115 In	1	4194132	0.93	4222628	99.3	30 - 120	
165 Ho	1	7527154	1.02	7383016	102.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\199AREF.D\199AREF.D#
Date Acquired: Dec 29 2011 02:43 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-11-g
Misc Info:
Vial Number: 3303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.37	0.37	ppb	13.80	3600	
51 V	72	1	20.04	20.04	ppb	2.02	3600	
52 Cr	72	1	14.16	14.16	ppb	2.37	3600	
55 Mn	72	1	134.80	134.80	ppb	1.55	18000	
59 Co	72	1	3.71	3.71	ppb	2.57	3600	
60 Ni	72	1	8.84	8.84	ppb	2.51	3600	
63 Cu	72	1	51.13	51.13	ppb	2.65	3600	
66 Zn	72	1	233.40	233.40	ppb	1.72	3600	
75 As	72	1	4.32	4.32	ppb	2.89	3600	
78 Se	72	1	0.73	0.73	ppb	21.21	3600	
95 Mo	72	1	0.59	0.59	ppb	3.14	3600	
107 Ag	115	1	0.03	0.03	ppb	14.64	3600	
111 Cd	115	1	0.09	0.09	ppb	37.65	3600	
118 Sn	115	1	0.18	0.18	ppb	18.61	3600	
121 Sb	115	1	0.09	0.09	ppb	1.73	3600	
137 Ba	115	1	43.01	43.01	ppb	1.55	3600	
205 Tl	165	1	0.10	0.10	ppb	1.80	3600	
208 Pb	165	1	53.25	53.25	ppb	1.35	3600	
232 Th	165	1	3.63	3.63	ppb	2.97	1000	
238 U	165	1	0.78	0.78	ppb	3.23	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	617004	1.12	619761	99.6	30 - 120	
45 Sc	1	2801592	1.20	2746464	102.0	30 - 120	
72 Ge	1	1717450	1.53	1696231	101.3	30 - 120	
115 In	1	4238806	0.83	4222628	100.4	30 - 120	
165 Ho	1	7538356	0.50	7383016	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\200SDIL.D\200SDIL.D#
Date Acquired: Dec 29 2011 02:46 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-11-g SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG122811.B\199AREF.D\199AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.05	ppb	58.30	0.07	60.8	90 - 110	
51 V	72	1	3.97	ppb	2.81	4.01	99.1	90 - 110	
52 Cr	72	1	2.80	ppb	2.54	2.83	98.7	90 - 110	
55 Mn	72	1	26.25	ppb	2.32	26.96	97.4	90 - 110	
59 Co	72	1	0.74	ppb	2.44	0.74	99.3	90 - 110	
60 Ni	72	1	1.67	ppb	2.27	1.77	94.2	90 - 110	
63 Cu	72	1	9.78	ppb	1.40	10.23	95.7	90 - 110	
66 Zn	72	1	46.29	ppb	1.68	46.68	99.2	90 - 110	
75 As	72	1	0.84	ppb	6.26	0.86	97.3	90 - 110	
78 Se	72	1	0.30	ppb	42.06	0.15	208.1	90 - 110	
95 Mo	72	1	0.09	ppb	7.00	0.12	78.5	90 - 110	
107 Ag	115	1	0.01	ppb	24.57	0.01	85.7	90 - 110	
111 Cd	115	1	0.02	ppb	50.72	0.02	123.0	90 - 110	
118 Sn	115	1	0.05	ppb	15.28	0.04	136.4	90 - 110	
121 Sb	115	1	0.02	ppb	20.07	0.02	105.2	90 - 110	
137 Ba	115	1	8.45	ppb	2.33	8.60	98.2	90 - 110	
205 Tl	165	1	0.02	ppb	2.10	0.02	101.9	90 - 110	
208 Pb	165	1	10.33	ppb	1.91	10.65	97.0	90 - 110	
232 Th	165	1	0.72	ppb	4.07	0.73	98.6	90 - 110	
238 U	165	1	0.15	ppb	5.50	0.16	97.0	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	632756	0.61	619761	102.1	30 - 120	
45 Sc	1	2810135	0.57	2746464	102.3	30 - 120	
72 Ge	1	1741123	0.50	1696231	102.6	30 - 120	
115 In	1	4320250	1.00	4222628	102.3	30 - 120	
165 Ho	1	7656056	0.81	7383016	103.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\201PDS.D\201PDS.D#
Date Acquired: Dec 29 2011 02:49 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-11-g PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 3305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	198.40	0.37	ppb	2.54	200	99.0	75 - 125	
51 V	72	1	206.60	20.04	ppb	0.77	200	93.9	75 - 125	
52 Cr	72	1	199.40	14.16	ppb	0.65	200	93.1	75 - 125	
55 Mn	72	1	310.70	134.80	ppb	0.21	200	92.8	75 - 125	
59 Co	72	1	189.40	3.71	ppb	0.21	200	93.0	75 - 125	
60 Ni	72	1	203.80	8.84	ppb	0.91	200	97.6	75 - 125	
63 Cu	72	1	234.80	51.13	ppb	0.48	200	93.5	75 - 125	
66 Zn	72	1	420.30	233.40	ppb	0.95	200	97.0	75 - 125	
75 As	72	1	194.40	4.32	ppb	0.57	200	95.1	75 - 125	
78 Se	72	1	185.90	0.73	ppb	1.35	200	92.6	75 - 125	
95 Mo	72	1	196.10	0.59	ppb	1.21	200	97.8	75 - 125	
107 Ag	115	1	50.98	0.03	ppb	0.29	50	101.9	75 - 125	
111 Cd	115	1	192.00	0.09	ppb	0.72	200	96.0	75 - 125	
118 Sn	115	1	188.40	0.18	ppb	0.93	200	94.1	75 - 125	
121 Sb	115	1	187.40	0.09	ppb	1.35	200	93.7	75 - 125	
137 Ba	115	1	243.10	43.01	ppb	1.37	200	100.0	75 - 125	
205 Tl	165	1	191.80	0.10	ppb	0.65	200	95.9	75 - 125	
208 Pb	165	1	240.70	53.25	ppb	1.93	200	95.0	75 - 125	
232 Th	165	1	3.54	3.63	ppb	4.62	200	1.7	75 - 125	
238 U	165	1	191.40	0.78	ppb	5.25	200	95.3	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	612304	3.14	619761	98.8	30 - 120	
45 Sc	1	2802920	0.96	2746464	102.1	30 - 120	
72 Ge	1	1707847	1.76	1696231	100.7	30 - 120	
115 In	1	4220896	1.46	4222628	100.0	30 - 120	
165 Ho	1	7482655	0.66	7383016	101.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\202_MS.D\202_MS.D#
Date Acquired: Dec 29 2011 02:51 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-11-h ms
Misc Info: MATRIX SPIKE
Vial Number: 3306
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	39.49	0.37	ppb	0.69	40	97.8	50 - 150	
51 V	72	1	58.14	20.04	ppb	2.11	40	96.8	50 - 150	
52 Cr	72	1	52.87	14.16	ppb	2.48	40	97.6	50 - 150	
55 Mn	72	1	165.50	134.80	ppb	2.26	40	94.7	50 - 150	
59 Co	72	1	42.64	3.71	ppb	1.93	40	97.6	50 - 150	
60 Ni	72	1	46.50	8.84	ppb	1.40	40	95.2	50 - 150	
63 Cu	72	1	87.51	51.13	ppb	1.43	40	96.0	50 - 150	
66 Zn	72	1	255.70	233.40	ppb	2.46	40	93.5	50 - 150	
75 As	72	1	41.09	4.32	ppb	0.84	40	92.7	50 - 150	
78 Se	72	1	38.80	0.73	ppb	1.05	40	95.3	50 - 150	
95 Mo	72	1	34.75	0.59	ppb	2.05	40	85.6	50 - 150	
107 Ag	115	1	40.46	0.03	ppb	1.48	40	101.1	50 - 150	
111 Cd	115	1	38.44	0.09	ppb	1.89	40	95.9	50 - 150	
118 Sn	115	1	8.67	0.18	ppb	2.13	40	21.6	50 - 150	
121 Sb	115	1	2.81	0.09	ppb	4.05	40	7.0	50 - 150	
137 Ba	115	1	78.43	43.01	ppb	2.07	40	94.5	50 - 150	
205 Tl	165	1	39.59	0.10	ppb	0.62	40	98.7	50 - 150	
208 Pb	165	1	69.92	53.25	ppb	1.17	40	75.0	50 - 150	
232 Th	165	1	43.53	3.63	ppb	3.19	40	99.8	50 - 150	
238 U	165	1	41.14	0.78	ppb	2.24	40	100.9	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	619223	1.57	619761	99.9	30 - 120	
45 Sc	1	2769962	1.01	2746464	100.9	30 - 120	
72 Ge	1	1691244	0.72	1696231	99.7	30 - 120	
115 In	1	4202417	0.96	4222628	99.5	30 - 120	
165 Ho	1	7507821	0.93	7383016	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\203_MSD.D\203_MSD.D#
Date Acquired: Dec 29 2011 02:54 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-11-i msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\202_MS.D\202_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	40.02	ppb	0.87	39.49	1.33	20	
51 V	72	1	59.68	ppb	3.07	58.14	2.61	20	
52 Cr	72	1	53.75	ppb	2.41	52.87	1.65	20	
55 Mn	72	1	169.50	ppb	2.06	165.50	2.39	20	
59 Co	72	1	42.97	ppb	0.86	42.64	0.77	20	
60 Ni	72	1	46.71	ppb	0.60	46.50	0.45	20	
63 Cu	72	1	85.34	ppb	0.29	87.51	2.51	20	
66 Zn	72	1	252.30	ppb	0.78	255.70	1.34	20	
75 As	72	1	41.33	ppb	0.59	41.09	0.58	20	
78 Se	72	1	37.84	ppb	3.53	38.80	2.51	20	
95 Mo	72	1	34.85	ppb	0.20	34.75	0.29	20	
107 Ag	115	1	40.27	ppb	2.03	40.46	0.47	20	
111 Cd	115	1	38.11	ppb	1.97	38.44	0.86	20	
118 Sn	115	1	8.87	ppb	3.78	8.67	2.27	20	
121 Sb	115	1	2.97	ppb	1.24	2.81	5.67	20	
137 Ba	115	1	81.01	ppb	1.24	78.43	3.24	20	
205 Tl	165	1	39.17	ppb	0.69	39.59	1.07	20	
208 Pb	165	1	69.28	ppb	0.75	69.92	0.92	20	
232 Th	165	1	43.09	ppb	1.34	43.53	1.02	20	
238 U	165	1	40.47	ppb	1.50	41.14	1.64	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	616535	0.74	619761	99.5	30 - 120	
45 Sc	1	2764033	1.99	2746464	100.6	30 - 120	
72 Ge	1	1688713	0.90	1696231	99.6	30 - 120	
115 In	1	4207337	2.53	4222628	99.6	30 - 120	
165 Ho	1	7579169	1.49	7383016	102.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\204SMPL.D\204SMPL.D#
Date Acquired: Dec 29 2011 02:57 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-12-c
Misc Info:
Vial Number: 3308
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.84	0.84	ppb	10.89	3600	
51 V	72	1	48.98	48.98	ppb	1.47	3600	
52 Cr	72	1	30.21	30.21	ppb	1.90	3600	
55 Mn	72	1	259.90	259.90	ppb	1.87	18000	
59 Co	72	1	8.13	8.13	ppb	1.40	3600	
60 Ni	72	1	17.28	17.28	ppb	2.12	3600	
63 Cu	72	1	10.82	10.82	ppb	0.95	3600	
66 Zn	72	1	46.46	46.46	ppb	1.65	3600	
75 As	72	1	8.58	8.58	ppb	1.49	3600	
78 Se	72	1	1.42	1.42	ppb	32.41	3600	
95 Mo	72	1	0.88	0.88	ppb	6.01	3600	
107 Ag	115	1	0.05	0.05	ppb	10.02	3600	
111 Cd	115	1	0.16	0.16	ppb	12.14	3600	
118 Sn	115	1	0.16	0.16	ppb	8.36	3600	
121 Sb	115	1	0.01	0.01	ppb	24.65	3600	
137 Ba	115	1	107.40	107.40	ppb	2.34	3600	
205 Tl	165	1	0.25	0.25	ppb	3.28	3600	
208 Pb	165	1	14.27	14.27	ppb	1.74	3600	
232 Th	165	1	8.10	8.10	ppb	2.59	1000	
238 U	165	1	1.57	1.57	ppb	1.75	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	598807	1.21	619761	96.6	30 - 120	
45 Sc	1	2755151	1.50	2746464	100.3	30 - 120	
72 Ge	1	1674129	0.82	1696231	98.7	30 - 120	
115 In	1	4124397	0.34	4222628	97.7	30 - 120	
165 Ho	1	7423353	1.85	7383016	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\205_CCV.D\205_CCV.D#
Date Acquired: Dec 29 2011 03:00 am
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	48.45	ppb	3.74	50	96.9	90 - 110	
51 V	72	1	49.90	ppb	2.76	50	99.8	90 - 110	
52 Cr	72	1	49.25	ppb	3.98	50	98.5	90 - 110	
55 Mn	72	1	48.63	ppb	2.24	50	97.3	90 - 110	
59 Co	72	1	50.16	ppb	2.54	50	100.3	90 - 110	
60 Ni	72	1	48.51	ppb	1.18	50	97.0	90 - 110	
63 Cu	72	1	49.60	ppb	0.74	50	99.2	90 - 110	
66 Zn	72	1	47.99	ppb	1.05	50	96.0	90 - 110	
75 As	72	1	48.29	ppb	1.62	50	96.6	90 - 110	
78 Se	72	1	47.53	ppb	3.39	50	95.1	90 - 110	
95 Mo	72	1	47.52	ppb	1.69	50	95.0	90 - 110	
107 Ag	115	1	49.93	ppb	1.27	50	99.9	90 - 110	
111 Cd	115	1	47.93	ppb	1.69	50	95.9	90 - 110	
118 Sn	115	1	46.29	ppb	2.36	50	92.6	90 - 110	
121 Sb	115	1	46.45	ppb	1.94	50	92.9	90 - 110	
137 Ba	115	1	47.91	ppb	2.29	50	95.8	90 - 110	
205 Tl	165	1	49.66	ppb	0.98	50	99.3	90 - 110	
208 Pb	165	1	48.17	ppb	0.61	50	96.3	90 - 110	
232 Th	165	1	49.87	ppb	1.99	50	99.7	90 - 110	
238 U	165	1	49.50	ppb	0.69	50	99.0	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	634343	0.60	619761	102.4	30 - 120	
45 Sc	1	2836149	2.81	2746464	103.3	30 - 120	
72 Ge	1	1762637	0.74	1696231	103.9	30 - 120	
115 In	1	4382836	1.09	4222628	103.8	30 - 120	
165 Ho	1	7736088	1.23	7383016	104.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\206_CCB.D\206_CCB.D#
Date Acquired: Dec 29 2011 03:03 am
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.004	ppb	293.01	1.00	
51 V	72	1	0.013	ppb	137.40	1.00	
52 Cr	72	1	0.014	ppb	68.15	1.00	
55 Mn	72	1	0.020	ppb	33.02	1.00	
59 Co	72	1	0.008	ppb	10.56	1.00	
60 Ni	72	1	0.014	ppb	32.02	1.00	
63 Cu	72	1	0.008	ppb	60.54	1.00	
66 Zn	72	1	0.027	ppb	45.63	1.00	
75 As	72	1	0.011	ppb	84.08	1.00	
78 Se	72	1	0.153	ppb	160.72	1.00	
95 Mo	72	1	-0.001	ppb	487.88	1.00	
107 Ag	115	1	0.014	ppb	26.40	1.00	
111 Cd	115	1	0.006	ppb	45.55	1.00	
118 Sn	115	1	0.038	ppb	17.02	1.00	
121 Sb	115	1	0.018	ppb	18.02	1.00	
137 Ba	115	1	0.019	ppb	16.46	1.00	
205 Tl	165	1	0.030	ppb	17.25	1.00	
208 Pb	165	1	0.015	ppb	16.22	1.00	
232 Th	165	1	0.057	ppb	4.45	1.00	
238 U	165	1	0.020	ppb	16.14	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	617601	3.03	619761	99.7	30 - 120	
45 Sc	1	2797684	0.74	2746464	101.9	30 - 120	
72 Ge	1	1729054	0.51	1696231	101.9	30 - 120	
115 In	1	4377290	2.16	4222628	103.7	30 - 120	
165 Ho	1	7591108	1.32	7383016	102.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\207WASH.D\207WASH.D#
Date Acquired: Dec 29 2011 03:06 am
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.945 ppb	2.65	1.30	
51 V	72	1	4.801 ppb	4.19	6.50	
52 Cr	72	1	1.939 ppb	4.35	2.60	
55 Mn	72	1	0.997 ppb	2.88	1.30	
59 Co	72	1	0.967 ppb	0.89	1.30	
60 Ni	72	1	2.035 ppb	2.43	2.60	
63 Cu	72	1	1.945 ppb	3.04	2.60	
66 Zn	72	1	9.712 ppb	2.17	13.00	
75 As	72	1	4.924 ppb	1.50	6.50	
78 Se	72	1	5.121 ppb	17.26	6.50	
95 Mo	72	1	1.905 ppb	4.55	2.60	
107 Ag	115	1	5.112 ppb	1.55	6.50	
111 Cd	115	1	1.031 ppb	3.11	1.30	
118 Sn	115	1	9.496 ppb	4.74	13.00	
121 Sb	115	1	1.865 ppb	3.55	2.60	
137 Ba	115	1	1.029 ppb	3.77	1.30	
205 Tl	165	1	0.983 ppb	1.34	1.30	
208 Pb	165	1	0.959 ppb	2.02	1.30	
232 Th	165	1	1.942 ppb	2.38	2.60	
238 U	165	1	0.961 ppb	3.69	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	645414	0.63	619761	104.1	30 - 120	
45 Sc	1	2864940	1.07	2746464	104.3	30 - 120	
72 Ge	1	1755742	0.62	1696231	103.5	30 - 120	
115 In	1	4358168	1.36	4222628	103.2	30 - 120	
165 Ho	1	7706920	0.75	7383016	104.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\208SMPL.D\208SMPL.D#
Date Acquired: Dec 29 2011 03:09 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-13-c
Misc Info:
Vial Number: 3309
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.40	0.40	ppb	10.00	3600	
51 V	72	1	21.30	21.30	ppb	2.51	3600	
52 Cr	72	1	14.77	14.77	ppb	2.86	3600	
55 Mn	72	1	117.90	117.90	ppb	3.42	18000	
59 Co	72	1	4.36	4.36	ppb	1.67	3600	
60 Ni	72	1	9.47	9.47	ppb	2.47	3600	
63 Cu	72	1	22.13	22.13	ppb	2.46	3600	
66 Zn	72	1	47.27	47.27	ppb	2.10	3600	
75 As	72	1	4.63	4.63	ppb	1.79	3600	
78 Se	72	1	0.96	0.96	ppb	11.91	3600	
95 Mo	72	1	0.68	0.68	ppb	6.61	3600	
107 Ag	115	1	0.03	0.03	ppb	16.41	3600	
111 Cd	115	1	0.07	0.07	ppb	10.00	3600	
118 Sn	115	1	0.11	0.11	ppb	3.45	3600	
121 Sb	115	1	0.01	0.01	ppb	19.35	3600	
137 Ba	115	1	42.69	42.69	ppb	1.35	3600	
205 Tl	165	1	0.12	0.12	ppb	1.22	3600	
208 Pb	165	1	10.81	10.81	ppb	2.50	3600	
232 Th	165	1	4.44	4.44	ppb	4.08	1000	
238 U	165	1	0.85	0.85	ppb	3.46	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	630557	0.97	619761	101.7	30 - 120	
45 Sc	1	2789290	1.42	2746464	101.6	30 - 120	
72 Ge	1	1714461	0.26	1696231	101.1	30 - 120	
115 In	1	4226274	1.74	4222628	100.1	30 - 120	
165 Ho	1	7530468	1.60	7383016	102.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\209SMPL.D\209SMPL.D#
Date Acquired: Dec 29 2011 03:12 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-14-c
Misc Info:
Vial Number: 3310
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.46	0.46	ppb	15.16	3600	
51 V	72	1	24.78	24.78	ppb	0.78	3600	
52 Cr	72	1	19.29	19.29	ppb	1.51	3600	
55 Mn	72	1	85.50	85.50	ppb	0.94	18000	
59 Co	72	1	3.91	3.91	ppb	0.33	3600	
60 Ni	72	1	10.91	10.91	ppb	0.45	3600	
63 Cu	72	1	10.32	10.32	ppb	0.11	3600	
66 Zn	72	1	30.37	30.37	ppb	0.88	3600	
75 As	72	1	4.56	4.56	ppb	1.67	3600	
78 Se	72	1	1.04	1.04	ppb	58.77	3600	
95 Mo	72	1	0.67	0.67	ppb	1.07	3600	
107 Ag	115	1	0.02	0.02	ppb	4.19	3600	
111 Cd	115	1	0.13	0.13	ppb	27.08	3600	
118 Sn	115	1	0.14	0.14	ppb	6.20	3600	
121 Sb	115	1	0.02	0.02	ppb	8.04	3600	
137 Ba	115	1	38.56	38.56	ppb	0.37	3600	
205 Tl	165	1	0.12	0.12	ppb	1.81	3600	
208 Pb	165	1	12.92	12.92	ppb	2.47	3600	
232 Th	165	1	4.18	4.18	ppb	2.55	1000	
238 U	165	1	0.86	0.86	ppb	2.04	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	616285	2.72	619761	99.4	30 - 120	
45 Sc	1	2820910	1.77	2746464	102.7	30 - 120	
72 Ge	1	1722103	1.11	1696231	101.5	30 - 120	
115 In	1	4216364	1.28	4222628	99.9	30 - 120	
165 Ho	1	7541026	1.77	7383016	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\210SMPL.D\210SMPL.D#
Date Acquired: Dec 29 2011 03:14 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-15-c
Misc Info:
Vial Number: 3311
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.48	0.48	ppb	10.74	3600	
51 V	72	1	21.62	21.62	ppb	3.33	3600	
52 Cr	72	1	15.29	15.29	ppb	2.58	3600	
55 Mn	72	1	228.90	228.90	ppb	3.63	18000	
59 Co	72	1	4.72	4.72	ppb	1.61	3600	
60 Ni	72	1	9.52	9.52	ppb	1.59	3600	
63 Cu	72	1	13.55	13.55	ppb	0.94	3600	
66 Zn	72	1	36.33	36.33	ppb	1.47	3600	
75 As	72	1	7.41	7.41	ppb	2.49	3600	
78 Se	72	1	1.13	1.13	ppb	20.08	3600	
95 Mo	72	1	0.65	0.65	ppb	5.52	3600	
107 Ag	115	1	0.03	0.03	ppb	6.89	3600	
111 Cd	115	1	0.25	0.25	ppb	6.32	3600	
118 Sn	115	1	0.31	0.31	ppb	3.34	3600	
121 Sb	115	1	0.03	0.03	ppb	11.13	3600	
137 Ba	115	1	51.09	51.09	ppb	3.11	3600	
205 Tl	165	1	0.12	0.12	ppb	3.43	3600	
208 Pb	165	1	21.03	21.03	ppb	1.10	3600	
232 Th	165	1	3.83	3.83	ppb	3.02	1000	
238 U	165	1	0.89	0.89	ppb	1.96	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	620270	1.06	619761	100.1	30 - 120	
45 Sc	1	2823258	0.27	2746464	102.8	30 - 120	
72 Ge	1	1730996	1.05	1696231	102.0	30 - 120	
115 In	1	4282842	0.61	4222628	101.4	30 - 120	
165 Ho	1	7616275	0.44	7383016	103.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\211SMPL.D\211SMPL.D#
Date Acquired: Dec 29 2011 03:17 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-16-c
Misc Info:
Vial Number: 3312
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.85	0.85	ppb	7.84	3600	
51 V	72	1	33.74	33.74	ppb	3.10	3600	
52 Cr	72	1	23.22	23.22	ppb	3.45	3600	
55 Mn	72	1	454.40	454.40	ppb	2.61	18000	
59 Co	72	1	7.04	7.04	ppb	1.80	3600	
60 Ni	72	1	14.27	14.27	ppb	2.77	3600	
63 Cu	72	1	52.79	52.79	ppb	2.76	3600	
66 Zn	72	1	147.20	147.20	ppb	2.15	3600	
75 As	72	1	6.71	6.71	ppb	1.95	3600	
78 Se	72	1	1.54	1.54	ppb	3.55	3600	
95 Mo	72	1	0.76	0.76	ppb	2.74	3600	
107 Ag	115	1	0.06	0.06	ppb	18.38	3600	
111 Cd	115	1	4.17	4.17	ppb	2.21	3600	
118 Sn	115	1	0.69	0.69	ppb	6.31	3600	
121 Sb	115	1	0.10	0.10	ppb	2.27	3600	
137 Ba	115	1	109.00	109.00	ppb	2.35	3600	
205 Tl	165	1	0.19	0.19	ppb	2.52	3600	
208 Pb	165	1	89.17	89.17	ppb	1.91	3600	
232 Th	165	1	6.45	6.45	ppb	2.88	1000	
238 U	165	1	1.26	1.26	ppb	2.96	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	614107	2.30	619761	99.1	30 - 120	
45 Sc	1	2818222	1.25	2746464	102.6	30 - 120	
72 Ge	1	1709181	0.59	1696231	100.8	30 - 120	
115 In	1	4208782	0.92	4222628	99.7	30 - 120	
165 Ho	1	7501178	0.15	7383016	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\212SMPL.D\212SMPL.D#
Date Acquired: Dec 29 2011 03:20 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-17-c
Misc Info:
Vial Number: 3401
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.43	0.43	ppb	8.06	3600	
51 V	72	1	21.62	21.62	ppb	1.33	3600	
52 Cr	72	1	15.11	15.11	ppb	2.01	3600	
55 Mn	72	1	156.30	156.30	ppb	2.46	18000	
59 Co	72	1	4.10	4.10	ppb	2.74	3600	
60 Ni	72	1	9.54	9.54	ppb	3.35	3600	
63 Cu	72	1	70.14	70.14	ppb	3.40	3600	
66 Zn	72	1	413.80	413.80	ppb	1.75	3600	
75 As	72	1	4.65	4.65	ppb	1.09	3600	
78 Se	72	1	0.90	0.90	ppb	16.92	3600	
95 Mo	72	1	0.62	0.62	ppb	4.37	3600	
107 Ag	115	1	0.03	0.03	ppb	16.64	3600	
111 Cd	115	1	0.10	0.10	ppb	18.86	3600	
118 Sn	115	1	0.25	0.25	ppb	7.86	3600	
121 Sb	115	1	0.09	0.09	ppb	13.38	3600	
137 Ba	115	1	47.74	47.74	ppb	3.33	3600	
205 Tl	165	1	0.10	0.10	ppb	0.90	3600	
208 Pb	165	1	45.94	45.94	ppb	1.18	3600	
232 Th	165	1	3.82	3.82	ppb	2.13	1000	
238 U	165	1	0.81	0.81	ppb	0.90	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	623747	1.02	619761	100.6	30 - 120	
45 Sc	1	2819283	0.11	2746464	102.7	30 - 120	
72 Ge	1	1710103	1.00	1696231	100.8	30 - 120	
115 In	1	4228494	1.34	4222628	100.1	30 - 120	
165 Ho	1	7602583	1.02	7383016	103.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\213SMPL.D\213SMPL.D#
Date Acquired: Dec 29 2011 03:23 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-18-c
Misc Info:
Vial Number: 3402
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.53	0.53	ppb	20.92	3600	
51 V	72	1	29.78	29.78	ppb	1.55	3600	
52 Cr	72	1	19.72	19.72	ppb	2.31	3600	
55 Mn	72	1	203.80	203.80	ppb	2.09	18000	
59 Co	72	1	5.39	5.39	ppb	1.98	3600	
60 Ni	72	1	11.63	11.63	ppb	1.24	3600	
63 Cu	72	1	76.67	76.67	ppb	1.22	3600	
66 Zn	72	1	87.44	87.44	ppb	0.52	3600	
75 As	72	1	6.18	6.18	ppb	0.97	3600	
78 Se	72	1	1.25	1.25	ppb	18.93	3600	
95 Mo	72	1	0.65	0.65	ppb	1.55	3600	
107 Ag	115	1	0.05	0.05	ppb	8.50	3600	
111 Cd	115	1	0.76	0.76	ppb	3.08	3600	
118 Sn	115	1	3.77	3.77	ppb	2.79	3600	
121 Sb	115	1	0.05	0.05	ppb	6.82	3600	
137 Ba	115	1	75.36	75.36	ppb	0.80	3600	
205 Tl	165	1	0.15	0.15	ppb	4.12	3600	
208 Pb	165	1	40.51	40.51	ppb	1.03	3600	
232 Th	165	1	5.37	5.37	ppb	2.38	1000	
238 U	165	1	1.06	1.06	ppb	3.08	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	608742	2.29	619761	98.2	30 - 120	
45 Sc	1	2801497	0.33	2746464	102.0	30 - 120	
72 Ge	1	1714541	1.24	1696231	101.1	30 - 120	
115 In	1	4244539	0.93	4222628	100.5	30 - 120	
165 Ho	1	7585695	1.67	7383016	102.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\214SMPL.D\214SMPL.D#
Date Acquired: Dec 29 2011 03:26 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-19-c
Misc Info:
Vial Number: 3403
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.44	0.44	ppb	24.49	3600	
51 V	72	1	22.86	22.86	ppb	2.04	3600	
52 Cr	72	1	15.83	15.83	ppb	2.57	3600	
55 Mn	72	1	150.50	150.50	ppb	2.58	18000	
59 Co	72	1	4.18	4.18	ppb	2.90	3600	
60 Ni	72	1	9.74	9.74	ppb	1.23	3600	
63 Cu	72	1	202.60	202.60	ppb	1.41	3600	
66 Zn	72	1	202.90	202.90	ppb	2.06	3600	
75 As	72	1	4.69	4.69	ppb	1.80	3600	
78 Se	72	1	0.57	0.57	ppb	15.55	3600	
95 Mo	72	1	0.50	0.50	ppb	4.39	3600	
107 Ag	115	1	0.04	0.04	ppb	23.36	3600	
111 Cd	115	1	0.13	0.13	ppb	3.89	3600	
118 Sn	115	1	0.18	0.18	ppb	7.85	3600	
121 Sb	115	1	0.01	0.01	ppb	11.39	3600	
137 Ba	115	1	50.94	50.94	ppb	1.51	3600	
205 Tl	165	1	0.12	0.12	ppb	2.34	3600	
208 Pb	165	1	13.26	13.26	ppb	0.31	3600	
232 Th	165	1	4.22	4.22	ppb	2.14	1000	
238 U	165	1	0.88	0.88	ppb	0.29	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	619746	2.28	619761	100.0	30 - 120	
45 Sc	1	2839732	1.37	2746464	103.4	30 - 120	
72 Ge	1	1718204	1.40	1696231	101.3	30 - 120	
115 In	1	4301012	1.02	4222628	101.9	30 - 120	
165 Ho	1	7562503	1.28	7383016	102.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\215SMPL.D\215SMPL.D#
Date Acquired: Dec 29 2011 03:29 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23965-a-20-c
Misc Info:
Vial Number: 3404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.21	0.21	ppb	29.91	3600	
51 V	72	1	12.97	12.97	ppb	3.46	3600	
52 Cr	72	1	13.74	13.74	ppb	4.60	3600	
55 Mn	72	1	188.50	188.50	ppb	3.53	18000	
59 Co	72	1	3.09	3.09	ppb	3.25	3600	
60 Ni	72	1	9.67	9.67	ppb	1.59	3600	
63 Cu	72	1	41.90	41.90	ppb	4.06	3600	
66 Zn	72	1	157.30	157.30	ppb	2.58	3600	
75 As	72	1	3.56	3.56	ppb	3.68	3600	
78 Se	72	1	0.84	0.84	ppb	31.06	3600	
95 Mo	72	1	1.17	1.17	ppb	6.48	3600	
107 Ag	115	1	0.02	0.02	ppb	12.21	3600	
111 Cd	115	1	0.09	0.09	ppb	27.12	3600	
118 Sn	115	1	0.35	0.35	ppb	6.55	3600	
121 Sb	115	1	0.11	0.11	ppb	5.21	3600	
137 Ba	115	1	24.89	24.89	ppb	2.77	3600	
205 Tl	165	1	0.06	0.06	ppb	7.24	3600	
208 Pb	165	1	54.24	54.24	ppb	0.84	3600	
232 Th	165	1	2.45	2.45	ppb	2.77	1000	
238 U	165	1	0.54	0.54	ppb	0.67	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	628171	1.38	619761	101.4	30 - 120	
45 Sc	1	2851844	2.22	2746464	103.8	30 - 120	
72 Ge	1	1743000	1.01	1696231	102.8	30 - 120	
115 In	1	4291519	0.67	4222628	101.6	30 - 120	
165 Ho	1	7630630	1.10	7383016	103.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\216_CCV.D\216_CCV.D#
Date Acquired: Dec 29 2011 03:32 am
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	50.24	ppb	1.07	50	100.5	90 - 110	
51 V	72	1	50.45	ppb	1.31	50	100.9	90 - 110	
52 Cr	72	1	49.78	ppb	1.88	50	99.6	90 - 110	
55 Mn	72	1	50.18	ppb	1.63	50	100.4	90 - 110	
59 Co	72	1	50.00	ppb	1.43	50	100.0	90 - 110	
60 Ni	72	1	49.59	ppb	1.93	50	99.2	90 - 110	
63 Cu	72	1	49.73	ppb	2.11	50	99.5	90 - 110	
66 Zn	72	1	48.84	ppb	1.87	50	97.7	90 - 110	
75 As	72	1	49.08	ppb	1.02	50	98.2	90 - 110	
78 Se	72	1	49.17	ppb	2.96	50	98.3	90 - 110	
95 Mo	72	1	48.37	ppb	0.94	50	96.7	90 - 110	
107 Ag	115	1	49.20	ppb	1.35	50	98.4	90 - 110	
111 Cd	115	1	47.91	ppb	2.01	50	95.8	90 - 110	
118 Sn	115	1	46.51	ppb	2.20	50	93.0	90 - 110	
121 Sb	115	1	46.58	ppb	2.02	50	93.2	90 - 110	
137 Ba	115	1	48.00	ppb	1.80	50	96.0	90 - 110	
205 Tl	165	1	49.88	ppb	1.08	50	99.8	90 - 110	
208 Pb	165	1	49.11	ppb	1.89	50	98.2	90 - 110	
232 Th	165	1	50.33	ppb	3.54	50	100.7	90 - 110	
238 U	165	1	49.59	ppb	2.89	50	99.2	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	626159	1.39	619761	101.0	30 - 120	
45 Sc	1	2848940	1.08	2746464	103.7	30 - 120	
72 Ge	1	1757652	1.62	1696231	103.6	30 - 120	
115 In	1	4419440	0.37	4222628	104.7	30 - 120	
165 Ho	1	7658552	0.64	7383016	103.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\217_CCB.D\217_CCB.D#
Date Acquired: Dec 29 2011 03:35 am
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.015	ppb	150.46	1.00	
51 V	72	1	0.015	ppb	18.11	1.00	
52 Cr	72	1	0.022	ppb	61.79	1.00	
55 Mn	72	1	0.020	ppb	59.07	1.00	
59 Co	72	1	0.011	ppb	9.75	1.00	
60 Ni	72	1	0.020	ppb	5.19	1.00	
63 Cu	72	1	0.008	ppb	48.53	1.00	
66 Zn	72	1	0.032	ppb	8.10	1.00	
75 As	72	1	0.013	ppb	113.17	1.00	
78 Se	72	1	0.096	ppb	18.50	1.00	
95 Mo	72	1	-0.006	ppb	211.24	1.00	
107 Ag	115	1	0.014	ppb	23.22	1.00	
111 Cd	115	1	0.012	ppb	36.60	1.00	
118 Sn	115	1	0.029	ppb	41.79	1.00	
121 Sb	115	1	0.016	ppb	10.52	1.00	
137 Ba	115	1	0.015	ppb	24.28	1.00	
205 Tl	165	1	0.027	ppb	13.78	1.00	
208 Pb	165	1	0.016	ppb	8.34	1.00	
232 Th	165	1	0.058	ppb	6.71	1.00	
238 U	165	1	0.017	ppb	13.38	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	627155	0.54	619761	101.2	30 - 120	
45 Sc	1	2845929	0.45	2746464	103.6	30 - 120	
72 Ge	1	1739691	1.61	1696231	102.6	30 - 120	
115 In	1	4351550	0.59	4222628	103.1	30 - 120	
165 Ho	1	7660749	1.16	7383016	103.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\218WASH.D\218WASH.D#
Date Acquired: Dec 29 2011 03:38 am
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.958 ppb	11.72	1.30	
51 V	72	1	4.949 ppb	2.22	6.50	
52 Cr	72	1	2.018 ppb	1.96	2.60	
55 Mn	72	1	1.030 ppb	1.53	1.30	
59 Co	72	1	1.007 ppb	3.64	1.30	
60 Ni	72	1	2.007 ppb	2.24	2.60	
63 Cu	72	1	1.998 ppb	2.25	2.60	
66 Zn	72	1	10.010 ppb	2.79	13.00	
75 As	72	1	5.071 ppb	3.35	6.50	
78 Se	72	1	5.259 ppb	3.76	6.50	
95 Mo	72	1	1.973 ppb	3.08	2.60	
107 Ag	115	1	5.083 ppb	0.59	6.50	
111 Cd	115	1	1.047 ppb	5.03	1.30	
118 Sn	115	1	9.567 ppb	3.82	13.00	
121 Sb	115	1	1.886 ppb	2.58	2.60	
137 Ba	115	1	0.981 ppb	2.95	1.30	
205 Tl	165	1	1.003 ppb	1.01	1.30	
208 Pb	165	1	0.981 ppb	0.68	1.30	
232 Th	165	1	2.016 ppb	3.72	2.60	
238 U	165	1	0.977 ppb	2.40	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	631567	1.96	619761	101.9	30 - 120	
45 Sc	1	2855535	0.70	2746464	104.0	30 - 120	
72 Ge	1	1742349	0.91	1696231	102.7	30 - 120	
115 In	1	4413512	1.17	4222628	104.5	30 - 120	
165 Ho	1	7615689	0.79	7383016	103.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\219WASH.D\219WASH.D#
Date Acquired: Dec 29 2011 03:41 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.006 ppb	221.98	1.30	
51 V	72	1	0.214 ppb	7.27	6.50	
52 Cr	72	1	1.580 ppb	2.57	2.60	
55 Mn	72	1	0.940 ppb	2.86	1.30	
59 Co	72	1	0.085 ppb	2.80	1.30	
60 Ni	72	1	1.303 ppb	1.10	2.60	
63 Cu	72	1	0.516 ppb	9.88	2.60	
66 Zn	72	1	4.672 ppb	3.60	13.00	
75 As	72	1	0.689 ppb	5.11	6.50	
78 Se	72	1	0.273 ppb	24.64	6.50	
95 Mo	72	1	2713.000 ppb	3.41	2.60	
107 Ag	115	1	0.089 ppb	8.82	6.50	
111 Cd	115	1	0.767 ppb	16.35	1.30	
118 Sn	115	1	0.684 ppb	5.47	13.00	
121 Sb	115	1	0.387 ppb	3.97	2.60	
137 Ba	115	1	0.272 ppb	1.56	1.30	
205 Tl	165	1	0.087 ppb	31.20	1.30	
208 Pb	165	1	0.201 ppb	2.84	1.30	
232 Th	165	1	0.046 ppb	5.26	2.60	
238 U	165	1	0.010 ppb	14.55	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	511956	1.36	619761	82.6	30 - 120	
45 Sc	1	2251456	1.83	2746464	82.0	30 - 120	
72 Ge	1	1319272	1.69	1696231	77.8	30 - 120	
115 In	1	3288917	1.34	4222628	77.9	30 - 120	
165 Ho	1	6076530	1.70	7383016	82.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\220WASH.D\220WASH.D#
Date Acquired: Dec 29 2011 03:43 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.004 ppb	192.33	1.30	
51 V	72	1	-0.004 ppb	410.85	6.50	
52 Cr	72	1	0.000 ppb	1151.60	2.60	
55 Mn	72	1	0.023 ppb	28.04	1.30	
59 Co	72	1	-0.003 ppb	21.23	1.30	
60 Ni	72	1	0.131 ppb	18.68	2.60	
63 Cu	72	1	0.000 ppb	2231.30	2.60	
66 Zn	72	1	0.056 ppb	21.81	13.00	
75 As	72	1	0.007 ppb	80.93	6.50	
78 Se	72	1	0.266 ppb	62.64	6.50	
95 Mo	72	1	0.715 ppb	5.71	2.60	
107 Ag	115	1	0.001 ppb	183.10	6.50	
111 Cd	115	1	0.003 ppb	100.14	1.30	
118 Sn	115	1	-0.009 ppb	47.23	13.00	
121 Sb	115	1	-0.001 ppb	130.45	2.60	
137 Ba	115	1	0.003 ppb	102.41	1.30	
205 Tl	165	1	0.006 ppb	29.92	1.30	
208 Pb	165	1	0.003 ppb	20.32	1.30	
232 Th	165	1	0.001 ppb	119.20	2.60	
238 U	165	1	0.000 ppb	50.23	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	605263	2.52	619761	97.7	30 - 120	
45 Sc	1	2648788	2.34	2746464	96.4	30 - 120	
72 Ge	1	1668378	1.75	1696231	98.4	30 - 120	
115 In	1	4221670	0.37	4222628	100.0	30 - 120	
165 Ho	1	7515923	0.79	7383016	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\221WASH.D\221WASH.D#
Date Acquired: Dec 29 2011 03:46 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.008 ppb	0.00	1.30	
51 V	72	1	-0.005 ppb	342.17	6.50	
52 Cr	72	1	0.000 ppb	787.50	2.60	
55 Mn	72	1	0.008 ppb	33.40	1.30	
59 Co	72	1	0.000 ppb	137.73	1.30	
60 Ni	72	1	0.132 ppb	13.38	2.60	
63 Cu	72	1	0.003 ppb	132.37	2.60	
66 Zn	72	1	0.043 ppb	1.75	13.00	
75 As	72	1	0.001 ppb	684.04	6.50	
78 Se	72	1	0.080 ppb	150.65	6.50	
95 Mo	72	1	0.183 ppb	6.86	2.60	
107 Ag	115	1	0.001 ppb	131.89	6.50	
111 Cd	115	1	-0.001 ppb	182.27	1.30	
118 Sn	115	1	-0.011 ppb	16.00	13.00	
121 Sb	115	1	0.000 ppb	862.84	2.60	
137 Ba	115	1	0.000 ppb	1518.00	1.30	
205 Tl	165	1	0.003 ppb	17.67	1.30	
208 Pb	165	1	0.001 ppb	99.83	1.30	
232 Th	165	1	0.000 ppb	611.61	2.60	
238 U	165	1	0.000 ppb	62.48	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	623380	1.96	619761	100.6	30 - 120	
45 Sc	1	2756584	0.65	2746464	100.4	30 - 120	
72 Ge	1	1690774	1.77	1696231	99.7	30 - 120	
115 In	1	4284432	1.45	4222628	101.5	30 - 120	
165 Ho	1	7618080	0.77	7383016	103.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\222WASH.D\222WASH.D#
Date Acquired: Dec 29 2011 03:49 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 01:14 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.004 ppb	157.50	1.30	
51 V	72	1	-0.009 ppb	172.08	6.50	
52 Cr	72	1	0.004 ppb	151.14	2.60	
55 Mn	72	1	-0.009 ppb	21.01	1.30	
59 Co	72	1	0.000 ppb	724.42	1.30	
60 Ni	72	1	0.137 ppb	7.73	2.60	
63 Cu	72	1	-0.005 ppb	13.34	2.60	
66 Zn	72	1	0.033 ppb	48.93	13.00	
75 As	72	1	-0.001 ppb	969.75	6.50	
78 Se	72	1	0.077 ppb	307.35	6.50	
95 Mo	72	1	0.073 ppb	17.01	2.60	
107 Ag	115	1	0.000 ppb	170.08	6.50	
111 Cd	115	1	-0.006 ppb	68.94	1.30	
118 Sn	115	1	-0.016 ppb	27.39	13.00	
121 Sb	115	1	-0.001 ppb	108.69	2.60	
137 Ba	115	1	0.001 ppb	123.02	1.30	
205 Tl	165	1	0.001 ppb	21.74	1.30	
208 Pb	165	1	0.000 ppb	258.90	1.30	
232 Th	165	1	0.000 ppb	782.27	2.60	
238 U	165	1	0.000 ppb	83.27	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	638359	2.47	619761	103.0	30 - 120	
45 Sc	1	2830617	0.98	2746464	103.1	30 - 120	
72 Ge	1	1752431	0.39	1696231	103.3	30 - 120	
115 In	1	4391728	0.31	4222628	104.0	30 - 120	
165 Ho	1	7761090	1.16	7383016	105.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\167CALB.D\167CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\223CALB.D\223CALB.D#
Date Acquired: Dec 29 2011 03:52 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: Cal Blank
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 01:14 am
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	7	86.70
51	V	72	1	113	278.02
52	Cr	72	1	1643	4.82
55	Mn	72	1	1240	11.38
59	Co	72	1	307	15.49
60	Ni	72	1	107	21.16
63	Cu	72	1	1060	12.33
66	Zn	72	1	1521	1.12
75	As	72	1	140	6.89
78	Se	72	1	587	18.89
95	Mo	72	1	553	16.31
107	Ag	115	1	140	17.49
111	Cd	115	1	16	34.61
118	Sn	115	1	293	7.05
121	Sb	115	1	98	31.11
137	Ba	115	1	66	25.70
205	Tl	165	1	287	8.90
208	Pb	165	1	711	7.47
232	Th	165	1	347	10.51
238	U	165	1	263	4.05

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	631543	2.59
45	Sc	1	2813963	1.95
72	Ge	1	1741492	0.92
115	In	1	4354335	1.66
165	Ho	1	7611100	0.57

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#
Date Acquired: Dec 29 2011 03:55 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: IC-1192705
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:53 am
Sample Type: CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
51	V	72	1	58	284.76
52	Cr	72	1	1513	5.43
55	Mn	72	1	1120	9.92
59	Co	72	1	163	25.88
60	Ni	72	1	100	35.23
63	Cu	72	1	800	3.83
66	Zn	72	1	378	6.99
75	As	72	1	115	14.59
78	Se	72	1	530	9.39
95	Mo	72	1	377	25.31
107	Ag	115	1	27	77.37
111	Cd	115	1	36	12.30
118	Sn	115	1	300	20.86
121	Sb	115	1	26	42.03
137	Ba	115	1	47	6.01
205	Tl	165	1	110	22.89
208	Pb	165	1	448	6.10
232	Th	165	1	103	50.45
238	U	165	1	58	21.20

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	636892	1.84
45	Sc	1	2802985	1.57
72	Ge	1	1725157	1.20
115	In	1	4341853	1.26
165	Ho	1	7594191	1.28

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\225ICAL.D\225ICAL.D#
Date Acquired: Dec 29 2011 03:58 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: IC-1192690
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:56 am
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	87882	0.63
51	V	72	1	2260508	2.70
52	Cr	72	1	2364301	4.07
55	Mn	72	1	2139715	1.93
59	Co	72	1	3226524	1.02
60	Ni	72	1	767005	1.79
63	Cu	72	1	1968279	1.35
66	Zn	72	1	335931	1.88
75	As	72	1	245416	1.61
78	Se	72	1	34725	0.88
95	Mo	72	1	883670	2.69
107	Ag	115	1	2547182	0.97
111	Cd	115	1	425527	1.38
118	Sn	115	1	1170926	0.42
121	Sb	115	1	1276015	1.90
137	Ba	115	1	515691	1.01
205	Tl	165	1	3835130	1.08
208	Pb	165	1	5268489	1.24
232	Th	165	1	4907724	1.70
238	U	165	1	5186576	2.11

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	639585	2.64	636892	100.4	30 - 120	
45	Sc	1	2809584	2.02	2802985	100.2	30 - 120	
72	Ge	1	1730683	0.34	1725157	100.3	30 - 120	
115	In	1	4334490	1.18	4341853	99.8	30 - 120	
165	Ho	1	7568730	1.51	7594191	99.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\226_CCV.D\226_CCV.D#
Date Acquired: Dec 29 2011 04:01 am
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	50.99	ppb	2.66	50	102.0	90 - 110	
51 V	72	1	51.28	ppb	1.52	50	102.6	90 - 110	
52 Cr	72	1	50.81	ppb	2.58	50	101.6	90 - 110	
55 Mn	72	1	50.20	ppb	0.89	50	100.4	90 - 110	
59 Co	72	1	50.91	ppb	0.55	50	101.8	90 - 110	
60 Ni	72	1	49.69	ppb	1.13	50	99.4	90 - 110	
63 Cu	72	1	49.88	ppb	1.25	50	99.8	90 - 110	
66 Zn	72	1	49.54	ppb	1.10	50	99.1	90 - 110	
75 As	72	1	49.66	ppb	0.90	50	99.3	90 - 110	
78 Se	72	1	49.41	ppb	1.43	50	98.8	90 - 110	
95 Mo	72	1	49.26	ppb	0.95	50	98.5	90 - 110	
107 Ag	115	1	50.38	ppb	2.08	50	100.8	90 - 110	
111 Cd	115	1	50.40	ppb	0.67	50	100.8	90 - 110	
118 Sn	115	1	47.77	ppb	1.40	50	95.5	90 - 110	
121 Sb	115	1	48.71	ppb	0.93	50	97.4	90 - 110	
137 Ba	115	1	50.27	ppb	0.49	50	100.5	90 - 110	
205 Tl	165	1	51.45	ppb	1.03	50	102.9	90 - 110	
208 Pb	165	1	49.68	ppb	0.51	50	99.4	90 - 110	
232 Th	165	1	50.87	ppb	1.68	50	101.7	90 - 110	
238 U	165	1	50.03	ppb	0.92	50	100.1	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	626906	2.29	636892	98.4	30 - 120	
45 Sc	1	2814567	2.07	2802985	100.4	30 - 120	
72 Ge	1	1729314	1.72	1725157	100.2	30 - 120	
115 In	1	4321980	1.27	4341853	99.5	30 - 120	
165 Ho	1	7624604	0.97	7594191	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\227_CCB.D\227_CCB.D#
Date Acquired: Dec 29 2011 04:04 am
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.019	ppb	69.88	1.00	
51 V	72	1	0.021	ppb	31.19	1.00	
52 Cr	72	1	0.016	ppb	46.57	1.00	
55 Mn	72	1	0.025	ppb	12.96	1.00	
59 Co	72	1	0.015	ppb	20.05	1.00	
60 Ni	72	1	0.014	ppb	54.05	1.00	
63 Cu	72	1	0.017	ppb	41.90	1.00	
66 Zn	72	1	0.024	ppb	91.06	1.00	
75 As	72	1	0.012	ppb	81.54	1.00	
78 Se	72	1	-0.266	ppb	116.03	1.00	
95 Mo	72	1	0.006	ppb	76.03	1.00	
107 Ag	115	1	0.015	ppb	23.05	1.00	
111 Cd	115	1	0.013	ppb	41.10	1.00	
118 Sn	115	1	0.062	ppb	4.03	1.00	
121 Sb	115	1	0.030	ppb	12.10	1.00	
137 Ba	115	1	0.014	ppb	38.68	1.00	
205 Tl	165	1	0.036	ppb	10.39	1.00	
208 Pb	165	1	0.017	ppb	2.31	1.00	
232 Th	165	1	0.086	ppb	1.92	1.00	
238 U	165	1	0.024	ppb	14.32	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	633834	0.91	636892	99.5	30 - 120	
45 Sc	1	2791428	0.74	2802985	99.6	30 - 120	
72 Ge	1	1714313	0.95	1725157	99.4	30 - 120	
115 In	1	4303234	1.65	4341853	99.1	30 - 120	
165 Ho	1	7658012	1.73	7594191	100.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\228WASH.D\228WASH.D#
Date Acquired: Dec 29 2011 04:07 am
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.064 ppb	4.82	1.30	
51 V	72	1	4.925 ppb	4.53	6.50	
52 Cr	72	1	2.006 ppb	3.46	2.60	
55 Mn	72	1	1.038 ppb	2.58	1.30	
59 Co	72	1	0.988 ppb	3.91	1.30	
60 Ni	72	1	2.096 ppb	1.08	2.60	
63 Cu	72	1	1.985 ppb	4.70	2.60	
66 Zn	72	1	10.100 ppb	2.64	13.00	
75 As	72	1	5.013 ppb	1.61	6.50	
78 Se	72	1	5.162 ppb	13.34	6.50	
95 Mo	72	1	1.989 ppb	4.12	2.60	
107 Ag	115	1	5.187 ppb	0.86	6.50	
111 Cd	115	1	1.057 ppb	1.20	1.30	
118 Sn	115	1	9.786 ppb	3.98	13.00	
121 Sb	115	1	1.959 ppb	4.72	2.60	
137 Ba	115	1	1.019 ppb	2.93	1.30	
205 Tl	165	1	1.007 ppb	3.78	1.30	
208 Pb	165	1	0.996 ppb	3.18	1.30	
232 Th	165	1	2.017 ppb	5.81	2.60	
238 U	165	1	0.986 ppb	4.33	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	631615	1.21	636892	99.2	30 - 120	
45 Sc	1	2793442	0.60	2802985	99.7	30 - 120	
72 Ge	1	1726115	0.35	1725157	100.1	30 - 120	
115 In	1	4326473	1.72	4341853	99.6	30 - 120	
165 Ho	1	7715701	1.84	7594191	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\229_BLK.D\229_BLK.D#
Date Acquired: Dec 29 2011 04:10 am
Operator: LRD
Sample Name: mb 280-101478/1-a
Misc Info: BLANK 101478 6020/DoD4
Vial Number: 4309
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.015 ppb	43.03	2.00	
51 V	72	1	0.003 ppb	415.47	2.00	
52 Cr	72	1	-0.006 ppb	94.72	2.00	
55 Mn	72	1	0.025 ppb	32.45	2.00	
59 Co	72	1	0.001 ppb	102.88	2.00	
60 Ni	72	1	0.015 ppb	24.40	2.00	
63 Cu	72	1	0.021 ppb	25.80	2.00	
66 Zn	72	1	0.980 ppb	2.33	2.00	
75 As	72	1	-0.002 ppb	169.48	2.00	
78 Se	72	1	0.361 ppb	32.15	2.00	
95 Mo	72	1	-0.024 ppb	9.84	2.00	
107 Ag	115	1	0.004 ppb	6.06	2.00	
111 Cd	115	1	0.000 ppb	682.30	2.00	
118 Sn	115	1	0.068 ppb	11.46	2.00	
121 Sb	115	1	0.006 ppb	50.92	2.00	
137 Ba	115	1	0.017 ppb	17.35	2.00	
205 Tl	165	1	0.008 ppb	3.51	2.00	
208 Pb	165	1	0.007 ppb	15.00	2.00	
232 Th	165	1	0.010 ppb	28.81	2.00	
238 U	165	1	0.002 ppb	23.34	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	652276	0.67	636892	102.4	30 - 120	
45 Sc	1	2887884	0.85	2802985	103.0	30 - 120	
72 Ge	1	1762318	1.16	1725157	102.2	30 - 120	
115 In	1	4473000	0.48	4341853	103.0	30 - 120	
165 Ho	1	7928548	0.54	7594191	104.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\230_LCS.D\230_LCS.D#
Date Acquired: Dec 29 2011 04:13 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-101478/2-a
Misc Info: LCS
Vial Number: 4310
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	40.09	5.09	40	100.2	80 - 120	
51 V	72	1	40.37	2.97	40	100.9	80 - 120	
52 Cr	72	1	40.26	3.66	40	100.7	80 - 120	
55 Mn	72	1	39.32	4.14	40	98.3	80 - 120	
59 Co	72	1	40.00	1.66	40	100.0	80 - 120	
60 Ni	72	1	39.22	2.34	40	98.1	80 - 120	
63 Cu	72	1	38.75	1.67	40	96.9	80 - 120	
66 Zn	72	1	40.31	2.01	40	100.8	80 - 120	
75 As	72	1	40.19	1.28	40	100.5	80 - 120	
78 Se	72	1	40.13	2.24	40	100.3	80 - 120	
95 Mo	72	1	39.04	2.22	40	97.6	80 - 120	
107 Ag	115	1	41.15	1.67	40	102.9	80 - 120	
111 Cd	115	1	39.23	1.91	40	98.1	80 - 120	
118 Sn	115	1	37.27	1.12	40	93.2	80 - 120	
121 Sb	115	1	37.71	1.75	40	94.3	80 - 120	
137 Ba	115	1	39.38	2.70	40	98.5	80 - 120	
205 Tl	165	1	39.82	0.21	40	99.6	80 - 120	
208 Pb	165	1	38.83	1.95	40	97.1	80 - 120	
232 Th	165	1	39.12	2.79	40	97.8	80 - 120	
238 U	165	1	39.56	2.46	40	98.9	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	653000	1.97	636892	102.5	30 - 120	
45 Sc	1	2921457	0.43	2802985	104.2	30 - 120	
72 Ge	1	1766977	0.94	1725157	102.4	30 - 120	
115 In	1	4497354	0.57	4341853	103.6	30 - 120	
165 Ho	1	7979847	1.33	7594191	105.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\231SMPL.D\231SMPL.D#
Date Acquired: Dec 29 2011 04:15 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23566-d-1-a
Misc Info:
Vial Number: 4311
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.03	0.03	ppb	24.03	3600	
51 V	72	1	0.13	0.13	ppb	39.34	3600	
52 Cr	72	1	1.61	1.61	ppb	1.52	3600	
55 Mn	72	1	0.27	0.27	ppb	7.53	18000	
59 Co	72	1	0.08	0.08	ppb	2.82	3600	
60 Ni	72	1	0.53	0.53	ppb	3.91	3600	
63 Cu	72	1	0.53	0.53	ppb	5.62	3600	
66 Zn	72	1	1.85	1.85	ppb	2.50	3600	
75 As	72	1	0.11	0.11	ppb	11.23	3600	
78 Se	72	1	0.55	0.55	ppb	36.18	3600	
95 Mo	72	1	0.71	0.71	ppb	5.72	3600	
107 Ag	115	1	0.02	0.02	ppb	10.30	3600	
111 Cd	115	1	0.04	0.04	ppb	17.37	3600	
118 Sn	115	1	0.07	0.07	ppb	11.50	3600	
121 Sb	115	1	0.15	0.15	ppb	3.06	3600	
137 Ba	115	1	32.51	32.51	ppb	1.61	3600	
205 Tl	165	1	0.06	0.06	ppb	35.78	3600	
208 Pb	165	1	0.06	0.06	ppb	16.24	3600	
232 Th	165	1	0.06	0.06	ppb	0.68	1000	
238 U	165	1	1.23	1.23	ppb	1.94	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	608402	2.02	636892	95.5	30 - 120	
45 Sc	1	2771267	1.26	2802985	98.9	30 - 120	
72 Ge	1	1625170	0.71	1725157	94.2	30 - 120	
115 In	1	4073250	0.57	4341853	93.8	30 - 120	
165 Ho	1	7393171	0.35	7594191	97.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\232AREF.D\232AREF.D#
Date Acquired: Dec 29 2011 04:18 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23566-d-2-a
Misc Info:
Vial Number: 4312
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.01	0.01	ppb	173.19	3600	
51 V	72	1	0.01	0.01	ppb	214.50	3600	
52 Cr	72	1	0.09	0.09	ppb	5.82	3600	
55 Mn	72	1	0.11	0.11	ppb	9.72	18000	
59 Co	72	1	0.00	0.00	ppb	72.04	3600	
60 Ni	72	1	0.03	0.03	ppb	11.30	3600	
63 Cu	72	1	0.07	0.07	ppb	12.19	3600	
66 Zn	72	1	2.28	2.28	ppb	0.96	3600	
75 As	72	1	0.00	0.00	ppb	680.76	3600	
78 Se	72	1	-0.19	-0.19	ppb	55.67	3600	
95 Mo	72	1	0.00	0.00	ppb	333.84	3600	
107 Ag	115	1	0.00	0.00	ppb	16.20	3600	
111 Cd	115	1	0.00	0.00	ppb	10625.00	3600	
118 Sn	115	1	0.03	0.03	ppb	59.98	3600	
121 Sb	115	1	0.02	0.02	ppb	9.32	3600	
137 Ba	115	1	0.09	0.09	ppb	14.01	3600	
205 Tl	165	1	0.00	0.00	ppb	31.54	3600	
208 Pb	165	1	0.01	0.01	ppb	1.09	3600	
232 Th	165	1	0.02	0.02	ppb	13.64	1000	
238 U	165	1	0.00	0.00	ppb	3.96	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	670991	0.95	636892	105.4	30 - 120	
45 Sc	1	2980942	0.97	2802985	106.3	30 - 120	
72 Ge	1	1816202	1.53	1725157	105.3	30 - 120	
115 In	1	4549623	1.33	4341853	104.8	30 - 120	
165 Ho	1	7996841	1.01	7594191	105.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\233SDIL.D\233SDIL.D#
Date Acquired: Dec 29 2011 04:21 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23566-d-2-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 4401
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG122811.B\232AREF.D\232AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.01	ppb	44.74	0.00	996.1	90 - 110	
51 V	72	1	0.00	ppb	223.36	0.00	-128.3	90 - 110	
52 Cr	72	1	0.02	ppb	20.22	0.02	128.7	90 - 110	
55 Mn	72	1	0.07	ppb	19.82	0.02	301.4	90 - 110	
59 Co	72	1	0.00	ppb	81.75	0.00	-243.2	90 - 110	
60 Ni	72	1	0.00	ppb	91.51	0.01	72.5	90 - 110	
63 Cu	72	1	0.01	ppb	24.72	0.01	100.6	90 - 110	
66 Zn	72	1	0.44	ppb	4.44	0.46	97.3	90 - 110	
75 As	72	1	0.00	ppb	1017.70	0.00	904.1	90 - 110	
78 Se	72	1	-0.11	ppb	315.38	-0.04	293.1	90 - 110	
95 Mo	72	1	-0.03	ppb	2.05	0.00	21043.1	90 - 110	
107 Ag	115	1	0.00	ppb	10.00	0.00	11.8	90 - 110	
111 Cd	115	1	0.01	ppb	72.91	0.00	-218892.0	90 - 110	
118 Sn	115	1	0.07	ppb	25.79	0.01	1058.6	90 - 110	
121 Sb	115	1	0.01	ppb	19.68	0.00	339.8	90 - 110	
137 Ba	115	1	0.03	ppb	1.60	0.02	187.8	90 - 110	
205 Tl	165	1	0.00	ppb	21.51	0.00	102.7	90 - 110	
208 Pb	165	1	0.00	ppb	26.30	0.00	133.7	90 - 110	
232 Th	165	1	0.01	ppb	16.08	0.00	254.6	90 - 110	
238 U	165	1	0.00	ppb	45.12	0.00	264.9	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	673413	1.27	636892	105.7	30 - 120	
45 Sc	1	2886108	0.73	2802985	103.0	30 - 120	
72 Ge	1	1764354	0.26	1725157	102.3	30 - 120	
115 In	1	4459392	0.92	4341853	102.7	30 - 120	
165 Ho	1	7889194	0.64	7594191	103.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\234PDS.D\234PDS.D#
Date Acquired: Dec 29 2011 04:24 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23566-d-2-a PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 4402
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	194.10	0.01	ppb	4.40	200	97.0	75 - 125	
51 V	72	1	183.80	0.01	ppb	1.64	200	91.9	75 - 125	
52 Cr	72	1	183.90	0.09	ppb	2.25	200	91.9	75 - 125	
55 Mn	72	1	184.00	0.11	ppb	2.28	200	91.9	75 - 125	
59 Co	72	1	184.00	0.00	ppb	2.44	200	92.0	75 - 125	
60 Ni	72	1	196.10	0.03	ppb	1.92	200	98.0	75 - 125	
63 Cu	72	1	184.90	0.07	ppb	2.81	200	92.4	75 - 125	
66 Zn	72	1	190.00	2.28	ppb	1.55	200	93.9	75 - 125	
75 As	72	1	192.40	0.00	ppb	1.32	200	96.2	75 - 125	
78 Se	72	1	191.60	-0.19	ppb	0.45	200	95.9	75 - 125	
95 Mo	72	1	190.90	0.00	ppb	1.50	200	95.5	75 - 125	
107 Ag	115	1	49.03	0.00	ppb	1.79	50	98.1	75 - 125	
111 Cd	115	1	190.40	0.00	ppb	2.04	200	95.2	75 - 125	
118 Sn	115	1	182.00	0.03	ppb	3.19	200	91.0	75 - 125	
121 Sb	115	1	184.00	0.02	ppb	2.92	200	92.0	75 - 125	
137 Ba	115	1	193.10	0.09	ppb	1.70	200	96.5	75 - 125	
205 Tl	165	1	185.50	0.00	ppb	1.01	200	92.7	75 - 125	
208 Pb	165	1	185.70	0.01	ppb	1.20	200	92.8	75 - 125	
232 Th	165	1	0.06	0.02	ppb	1.94	200	0.0	75 - 125	
238 U	165	1	185.00	0.00	ppb	1.87	200	92.5	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	664343	3.06	636892	104.3	30 - 120	
45 Sc	1	2920210	0.90	2802985	104.2	30 - 120	
72 Ge	1	1786489	0.57	1725157	103.6	30 - 120	
115 In	1	4543499	0.88	4341853	104.6	30 - 120	
165 Ho	1	7960315	0.44	7594191	104.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\235_MS.D\235_MS.D#
Date Acquired: Dec 29 2011 04:27 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23566-d-2-b ms
Misc Info: MATRIX SPIKE
Vial Number: 4403
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	39.81	0.01	ppb	4.38	40	99.5	50 - 150	
51 V	72	1	41.67	0.01	ppb	3.00	40	104.2	50 - 150	
52 Cr	72	1	41.39	0.09	ppb	3.09	40	103.2	50 - 150	
55 Mn	72	1	41.20	0.11	ppb	2.96	40	102.7	50 - 150	
59 Co	72	1	41.36	0.00	ppb	3.70	40	103.4	50 - 150	
60 Ni	72	1	40.53	0.03	ppb	2.80	40	101.3	50 - 150	
63 Cu	72	1	39.75	0.07	ppb	2.06	40	99.2	50 - 150	
66 Zn	72	1	42.10	2.28	ppb	2.21	40	99.6	50 - 150	
75 As	72	1	40.89	0.00	ppb	1.47	40	102.2	50 - 150	
78 Se	72	1	41.60	-0.19	ppb	1.72	40	104.5	50 - 150	
95 Mo	72	1	39.69	0.00	ppb	2.16	40	99.2	50 - 150	
107 Ag	115	1	42.30	0.00	ppb	1.36	40	105.7	50 - 150	
111 Cd	115	1	40.59	0.00	ppb	0.78	40	101.5	50 - 150	
118 Sn	115	1	38.57	0.03	ppb	1.24	40	96.3	50 - 150	
121 Sb	115	1	38.80	0.02	ppb	0.98	40	97.0	50 - 150	
137 Ba	115	1	40.68	0.09	ppb	1.01	40	101.5	50 - 150	
205 Tl	165	1	41.03	0.00	ppb	1.83	40	102.6	50 - 150	
208 Pb	165	1	39.66	0.01	ppb	2.02	40	99.1	50 - 150	
232 Th	165	1	40.02	0.02	ppb	1.53	40	100.0	50 - 150	
238 U	165	1	40.49	0.00	ppb	1.92	40	101.2	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	667543	1.01	636892	104.8	30 - 120	
45 Sc	1	2919972	1.30	2802985	104.2	30 - 120	
72 Ge	1	1775234	0.36	1725157	102.9	30 - 120	
115 In	1	4483737	1.28	4341853	103.3	30 - 120	
165 Ho	1	8101763	2.01	7594191	106.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\236_MSD.D\236_MSD.D#
Date Acquired: Dec 29 2011 04:30 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23566-d-2-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 4404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\235_MS.D\235_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	39.48	ppb	0.38	39.81	0.83	20	
51 V	72	1	41.84	ppb	2.22	41.67	0.41	20	
52 Cr	72	1	41.38	ppb	2.30	41.39	0.02	20	
55 Mn	72	1	40.90	ppb	2.33	41.20	0.73	20	
59 Co	72	1	41.55	ppb	1.84	41.36	0.46	20	
60 Ni	72	1	40.54	ppb	0.29	40.53	0.02	20	
63 Cu	72	1	39.67	ppb	0.64	39.75	0.20	20	
66 Zn	72	1	41.98	ppb	1.22	42.10	0.29	20	
75 As	72	1	40.71	ppb	1.23	40.89	0.44	20	
78 Se	72	1	41.23	ppb	4.34	41.60	0.89	20	
95 Mo	72	1	39.67	ppb	1.60	39.69	0.05	20	
107 Ag	115	1	41.32	ppb	2.75	42.30	2.34	20	
111 Cd	115	1	39.33	ppb	0.86	40.59	3.15	20	
118 Sn	115	1	37.80	ppb	0.83	38.57	2.02	20	
121 Sb	115	1	37.95	ppb	1.08	38.80	2.21	20	
137 Ba	115	1	39.21	ppb	1.90	40.68	3.68	20	
205 Tl	165	1	41.32	ppb	1.28	41.03	0.70	20	
208 Pb	165	1	40.03	ppb	0.87	39.66	0.93	20	
232 Th	165	1	41.50	ppb	2.80	40.02	3.63	20	
238 U	165	1	41.04	ppb	1.20	40.49	1.35	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	666583	1.31	636892	104.7	30 - 120	
45 Sc	1	2895305	2.62	2802985	103.3	30 - 120	
72 Ge	1	1763529	1.78	1725157	102.2	30 - 120	
115 In	1	4561830	2.33	4341853	105.1	30 - 120	
165 Ho	1	7918001	1.15	7594191	104.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\237SMPL.D\237SMPL.D#
Date Acquired: Dec 29 2011 04:33 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23566-c-1-j
Misc Info: 101490 6020/DoD4
Vial Number: 4502
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.03	0.03	ppb	90.44	3600	
51 V	72	1	0.49	0.49	ppb	13.35	3600	
52 Cr	72	1	3.49	3.49	ppb	1.10	3600	
55 Mn	72	1	20.16	20.16	ppb	0.46	18000	
59 Co	72	1	0.19	0.19	ppb	4.90	3600	
60 Ni	72	1	1.07	1.07	ppb	4.02	3600	
63 Cu	72	1	1.12	1.12	ppb	0.68	3600	
66 Zn	72	1	2.15	2.15	ppb	1.86	3600	
75 As	72	1	0.21	0.21	ppb	12.30	3600	
78 Se	72	1	0.61	0.61	ppb	39.49	3600	
95 Mo	72	1	0.79	0.79	ppb	4.48	3600	
107 Ag	115	1	0.02	0.02	ppb	19.83	3600	
111 Cd	115	1	0.09	0.09	ppb	9.84	3600	
118 Sn	115	1	0.18	0.18	ppb	2.08	3600	
121 Sb	115	1	0.20	0.20	ppb	4.34	3600	
137 Ba	115	1	35.63	35.63	ppb	1.15	3600	
205 Tl	165	1	0.07	0.07	ppb	28.28	3600	
208 Pb	165	1	0.18	0.18	ppb	7.98	3600	
232 Th	165	1	0.14	0.14	ppb	9.67	1000	
238 U	165	1	1.42	1.42	ppb	0.58	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	587916	3.11	636892	92.3	30 - 120	
45 Sc	1	2645808	3.44	2802985	94.4	30 - 120	
72 Ge	1	1552987	2.25	1725157	90.0	30 - 120	
115 In	1	3904611	2.11	4341853	89.9	30 - 120	
165 Ho	1	7043623	1.39	7594191	92.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\238SMPL.D\238SMPL.D#
Date Acquired: Dec 29 2011 04:36 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23566-c-2-f
Misc Info:
Vial Number: 4503
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.01	0.01	ppb	173.24	3600	
51 V	72	1	0.02	0.02	ppb	58.73	3600	
52 Cr	72	1	0.24	0.24	ppb	1.24	3600	
55 Mn	72	1	0.11	0.11	ppb	15.98	18000	
59 Co	72	1	0.00	0.00	ppb	39.93	3600	
60 Ni	72	1	0.07	0.07	ppb	33.35	3600	
63 Cu	72	1	0.06	0.06	ppb	16.69	3600	
66 Zn	72	1	3.81	3.81	ppb	1.03	3600	
75 As	72	1	0.01	0.01	ppb	70.04	3600	
78 Se	72	1	-0.06	-0.06	ppb	93.48	3600	
95 Mo	72	1	-0.01	-0.01	ppb	60.06	3600	
107 Ag	115	1	0.00	0.00	ppb	28.05	3600	
111 Cd	115	1	0.01	0.01	ppb	49.27	3600	
118 Sn	115	1	0.09	0.09	ppb	9.04	3600	
121 Sb	115	1	0.03	0.03	ppb	15.54	3600	
137 Ba	115	1	0.38	0.38	ppb	7.08	3600	
205 Tl	165	1	0.02	0.02	ppb	7.68	3600	
208 Pb	165	1	0.02	0.02	ppb	12.41	3600	
232 Th	165	1	0.02	0.02	ppb	20.90	1000	
238 U	165	1	0.01	0.01	ppb	12.20	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	645155	1.62	636892	101.3	30 - 120	
45 Sc	1	2772805	0.60	2802985	98.9	30 - 120	
72 Ge	1	1704376	0.43	1725157	98.8	30 - 120	
115 In	1	4255650	0.96	4341853	98.0	30 - 120	
165 Ho	1	7481900	0.40	7594191	98.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\239_CCV.D\239_CCV.D#
Date Acquired: Dec 29 2011 04:39 am
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	48.79	ppb	1.43	50	97.6	90 - 110	
51 V	72	1	50.32	ppb	1.89	50	100.6	90 - 110	
52 Cr	72	1	50.01	ppb	2.69	50	100.0	90 - 110	
55 Mn	72	1	50.10	ppb	1.91	50	100.2	90 - 110	
59 Co	72	1	50.15	ppb	1.66	50	100.3	90 - 110	
60 Ni	72	1	49.21	ppb	2.37	50	98.4	90 - 110	
63 Cu	72	1	48.97	ppb	2.27	50	97.9	90 - 110	
66 Zn	72	1	48.49	ppb	1.35	50	97.0	90 - 110	
75 As	72	1	48.82	ppb	1.13	50	97.6	90 - 110	
78 Se	72	1	48.70	ppb	1.24	50	97.4	90 - 110	
95 Mo	72	1	47.88	ppb	1.08	50	95.8	90 - 110	
107 Ag	115	1	49.48	ppb	1.06	50	99.0	90 - 110	
111 Cd	115	1	48.58	ppb	1.93	50	97.2	90 - 110	
118 Sn	115	1	46.80	ppb	2.53	50	93.6	90 - 110	
121 Sb	115	1	47.30	ppb	2.22	50	94.6	90 - 110	
137 Ba	115	1	48.69	ppb	2.30	50	97.4	90 - 110	
205 Tl	165	1	49.64	ppb	0.38	50	99.3	90 - 110	
208 Pb	165	1	48.70	ppb	2.08	50	97.4	90 - 110	
232 Th	165	1	49.36	ppb	4.13	50	98.7	90 - 110	
238 U	165	1	49.57	ppb	3.60	50	99.1	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	658754	1.05	636892	103.4	30 - 120	
45 Sc	1	2879686	2.24	2802985	102.7	30 - 120	
72 Ge	1	1754660	1.83	1725157	101.7	30 - 120	
115 In	1	4417858	1.44	4341853	101.8	30 - 120	
165 Ho	1	7725045	1.02	7594191	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\240_CCB.D\240_CCB.D#
Date Acquired: Dec 29 2011 04:42 am
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.011	ppb	99.73	1.00	
51 V	72	1	0.006	ppb	76.56	1.00	
52 Cr	72	1	0.005	ppb	99.80	1.00	
55 Mn	72	1	-0.006	ppb	19.84	1.00	
59 Co	72	1	0.004	ppb	20.75	1.00	
60 Ni	72	1	0.003	ppb	197.91	1.00	
63 Cu	72	1	0.003	ppb	86.65	1.00	
66 Zn	72	1	-0.007	ppb	92.04	1.00	
75 As	72	1	0.013	ppb	54.17	1.00	
78 Se	72	1	-0.032	ppb	1308.90	1.00	
95 Mo	72	1	-0.015	ppb	10.88	1.00	
107 Ag	115	1	0.010	ppb	34.49	1.00	
111 Cd	115	1	0.006	ppb	142.07	1.00	
118 Sn	115	1	0.046	ppb	28.79	1.00	
121 Sb	115	1	0.021	ppb	16.29	1.00	
137 Ba	115	1	0.005	ppb	50.66	1.00	
205 Tl	165	1	0.025	ppb	10.75	1.00	
208 Pb	165	1	0.009	ppb	14.61	1.00	
232 Th	165	1	0.061	ppb	4.83	1.00	
238 U	165	1	0.014	ppb	19.01	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	653716	1.83	636892	102.6	30 - 120	
45 Sc	1	2907132	1.24	2802985	103.7	30 - 120	
72 Ge	1	1757481	1.47	1725157	101.9	30 - 120	
115 In	1	4427302	0.41	4341853	102.0	30 - 120	
165 Ho	1	7784797	0.58	7594191	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\241WASH.D\241WASH.D#
Date Acquired: Dec 29 2011 04:45 am
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.091 ppb	11.23	1.30	
51 V	72	1	4.873 ppb	1.90	6.50	
52 Cr	72	1	1.952 ppb	2.56	2.60	
55 Mn	72	1	0.990 ppb	2.87	1.30	
59 Co	72	1	0.969 ppb	3.79	1.30	
60 Ni	72	1	1.993 ppb	3.16	2.60	
63 Cu	72	1	1.954 ppb	0.80	2.60	
66 Zn	72	1	9.865 ppb	2.56	13.00	
75 As	72	1	4.906 ppb	0.77	6.50	
78 Se	72	1	4.268 ppb	11.22	6.50	
95 Mo	72	1	1.932 ppb	3.57	2.60	
107 Ag	115	1	5.031 ppb	1.54	6.50	
111 Cd	115	1	1.010 ppb	7.30	1.30	
118 Sn	115	1	9.551 ppb	3.12	13.00	
121 Sb	115	1	1.880 ppb	4.10	2.60	
137 Ba	115	1	1.001 ppb	0.50	1.30	
205 Tl	165	1	0.979 ppb	1.64	1.30	
208 Pb	165	1	0.954 ppb	1.69	1.30	
232 Th	165	1	1.942 ppb	4.08	2.60	
238 U	165	1	0.956 ppb	2.57	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	646265	3.00	636892	101.5	30 - 120	
45 Sc	1	2868571	1.80	2802985	102.3	30 - 120	
72 Ge	1	1753557	0.93	1725157	101.6	30 - 120	
115 In	1	4432058	0.98	4341853	102.1	30 - 120	
165 Ho	1	7805307	0.59	7594191	102.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\242_BLK.D\242_BLK.D#
Date Acquired: Dec 29 2011 04:47 am
Operator: LRD
Sample Name: mb 280-101490/1-a
Misc Info: BLANK 101490 6020/DoD4
Vial Number: 4405
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.007 ppb	86.61	2.00	
51 V	72	1	0.011 ppb	119.58	2.00	
52 Cr	72	1	0.036 ppb	19.34	2.00	
55 Mn	72	1	0.058 ppb	4.92	2.00	
59 Co	72	1	0.004 ppb	13.75	2.00	
60 Ni	72	1	0.026 ppb	42.43	2.00	
63 Cu	72	1	0.068 ppb	4.61	2.00	
66 Zn	72	1	1.402 ppb	3.89	2.00	
75 As	72	1	0.010 ppb	68.26	2.00	
78 Se	72	1	-0.082 ppb	276.83	2.00	
95 Mo	72	1	-0.022 ppb	9.11	2.00	
107 Ag	115	1	0.003 ppb	60.31	2.00	
111 Cd	115	1	0.005 ppb	118.32	2.00	
118 Sn	115	1	0.099 ppb	18.94	2.00	
121 Sb	115	1	0.010 ppb	10.58	2.00	
137 Ba	115	1	0.053 ppb	1.64	2.00	
205 Tl	165	1	0.035 ppb	30.39	2.00	
208 Pb	165	1	0.021 ppb	5.15	2.00	
232 Th	165	1	0.030 ppb	14.54	2.00	
238 U	165	1	0.009 ppb	10.05	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	651762	1.59	636892	102.3	30 - 120	
45 Sc	1	2779085	1.36	2802985	99.1	30 - 120	
72 Ge	1	1695950	1.50	1725157	98.3	30 - 120	
115 In	1	4269791	0.71	4341853	98.3	30 - 120	
165 Ho	1	7505266	1.10	7594191	98.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\243_LCS.D\243_LCS.D#
Date Acquired: Dec 29 2011 04:50 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-101490/2-a
Misc Info: LCS
Vial Number: 4406
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	38.98	2.02	40	97.5	80 - 120	
51 V	72	1	41.86	2.01	40	104.7	80 - 120	
52 Cr	72	1	41.26	2.46	40	103.2	80 - 120	
55 Mn	72	1	40.81	2.86	40	102.0	80 - 120	
59 Co	72	1	41.31	2.12	40	103.3	80 - 120	
60 Ni	72	1	40.35	1.62	40	100.9	80 - 120	
63 Cu	72	1	39.16	0.96	40	97.9	80 - 120	
66 Zn	72	1	38.92	1.30	40	97.3	80 - 120	
75 As	72	1	38.89	2.14	40	97.2	80 - 120	
78 Se	72	1	38.88	2.40	40	97.2	80 - 120	
95 Mo	72	1	40.35	1.26	40	100.9	80 - 120	
107 Ag	115	1	42.63	0.53	40	106.6	80 - 120	
111 Cd	115	1	39.85	1.22	40	99.6	80 - 120	
118 Sn	115	1	39.11	1.71	40	97.8	80 - 120	
121 Sb	115	1	38.26	0.81	40	95.7	80 - 120	
137 Ba	115	1	40.54	0.58	40	101.4	80 - 120	
205 Tl	165	1	41.55	2.31	40	103.9	80 - 120	
208 Pb	165	1	40.44	2.44	40	101.1	80 - 120	
232 Th	165	1	41.54	3.04	40	103.9	80 - 120	
238 U	165	1	41.17	2.06	40	102.9	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	644328	2.00	636892	101.2	30 - 120	
45 Sc	1	2800574	2.54	2802985	99.9	30 - 120	
72 Ge	1	1705107	1.88	1725157	98.8	30 - 120	
115 In	1	4272900	1.83	4341853	98.4	30 - 120	
165 Ho	1	7576281	1.68	7594191	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\244AREF.D\244AREF.D#
Date Acquired: Dec 29 2011 04:53 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23623-a-2-c
Misc Info:
Vial Number: 4407
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.00	0.00	ppb	0.00	3600	
51 V	72	1	0.22	0.22	ppb	5.87	3600	
52 Cr	72	1	0.21	0.21	ppb	4.92	3600	
55 Mn	72	1	2,403.00	2403.00	ppb	0.48	18000	
59 Co	72	1	0.17	0.17	ppb	2.79	3600	
60 Ni	72	1	6.27	6.27	ppb	1.73	3600	
63 Cu	72	1	173.40	173.40	ppb	1.42	3600	
66 Zn	72	1	191.10	191.10	ppb	1.18	3600	
75 As	72	1	9.13	9.13	ppb	0.57	3600	
78 Se	72	1	0.05	0.05	ppb	384.74	3600	
95 Mo	72	1	0.13	0.13	ppb	12.36	3600	
107 Ag	115	1	0.02	0.02	ppb	12.97	3600	
111 Cd	115	1	0.16	0.16	ppb	8.95	3600	
118 Sn	115	1	1.00	1.00	ppb	2.81	3600	
121 Sb	115	1	0.67	0.67	ppb	4.00	3600	
137 Ba	115	1	292.30	292.30	ppb	1.32	3600	
205 Tl	165	1	0.05	0.05	ppb	18.27	3600	
208 Pb	165	1	85.34	85.34	ppb	1.62	3600	
232 Th	165	1	0.09	0.09	ppb	7.46	1000	
238 U	165	1	0.09	0.09	ppb	0.95	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	576696	2.48	636892	90.5	30 - 120	
45 Sc	1	2611453	2.20	2802985	93.2	30 - 120	
72 Ge	1	1583356	2.61	1725157	91.8	30 - 120	
115 In	1	3919682	2.52	4341853	90.3	30 - 120	
165 Ho	1	7098745	1.40	7594191	93.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\245SDIL.D\245SDIL.D#
Date Acquired: Dec 29 2011 04:56 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23623-a-2-c SD@5
Misc Info: SERIAL DILUTION
Vial Number: 4408
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG122811.B\244AREF.D\244AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.00	ppb	173.19	0.00	#DIV/0!	90 - 110	
51 V	72	1	0.06	ppb	11.07	0.04	134.7	90 - 110	
52 Cr	72	1	0.05	ppb	26.42	0.04	113.7	90 - 110	
55 Mn	72	1	474.90	ppb	2.84	480.60	98.8	90 - 110	
59 Co	72	1	0.03	ppb	13.31	0.03	92.4	90 - 110	
60 Ni	72	1	1.25	ppb	2.25	1.25	99.7	90 - 110	
63 Cu	72	1	34.65	ppb	2.99	34.68	99.9	90 - 110	
66 Zn	72	1	38.97	ppb	3.49	38.22	102.0	90 - 110	
75 As	72	1	1.77	ppb	4.62	1.83	97.2	90 - 110	
78 Se	72	1	-0.21	ppb	182.10	0.01	-2055.1	90 - 110	
95 Mo	72	1	0.00	ppb	178.52	0.03	12.2	90 - 110	
107 Ag	115	1	0.00	ppb	20.33	0.00	112.0	90 - 110	
111 Cd	115	1	0.04	ppb	14.74	0.03	116.2	90 - 110	
118 Sn	115	1	0.25	ppb	0.93	0.20	124.0	90 - 110	
121 Sb	115	1	0.14	ppb	1.38	0.13	103.7	90 - 110	
137 Ba	115	1	54.65	ppb	2.98	58.46	93.5	90 - 110	
205 Tl	165	1	0.01	ppb	8.38	0.01	112.9	90 - 110	
208 Pb	165	1	17.01	ppb	1.60	17.07	99.7	90 - 110	
232 Th	165	1	0.01	ppb	15.00	0.02	77.4	90 - 110	
238 U	165	1	0.02	ppb	6.52	0.02	99.4	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	609914	1.85	636892	95.8	30 - 120	
45 Sc	1	2785531	0.44	2802985	99.4	30 - 120	
72 Ge	1	1708737	1.83	1725157	99.0	30 - 120	
115 In	1	4272252	0.76	4341853	98.4	30 - 120	
165 Ho	1	7572056	0.05	7594191	99.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\246PDS.D\246PDS.D#
Date Acquired: Dec 29 2011 04:59 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23623-a-2-c PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 4409
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	202.40	0.00	ppb	1.24	200	101.2	75 - 125	
51 V	72	1	203.10	0.22	ppb	2.92	200	101.4	75 - 125	
52 Cr	72	1	198.60	0.21	ppb	2.64	200	99.2	75 - 125	
55 Mn	72	1	2546.00	2403.00	ppb	2.70	200	97.8	75 - 125	
59 Co	72	1	194.30	0.17	ppb	2.89	200	97.1	75 - 125	
60 Ni	72	1	206.20	6.27	ppb	1.81	200	100.0	75 - 125	
63 Cu	72	1	346.10	173.40	ppb	2.90	200	92.7	75 - 125	
66 Zn	72	1	383.70	191.10	ppb	2.29	200	98.1	75 - 125	
75 As	72	1	206.30	9.13	ppb	2.40	200	98.6	75 - 125	
78 Se	72	1	195.70	0.05	ppb	1.88	200	97.8	75 - 125	
95 Mo	72	1	209.40	0.13	ppb	2.88	200	104.6	75 - 125	
107 Ag	115	1	49.44	0.02	ppb	3.48	50	98.8	75 - 125	
111 Cd	115	1	197.50	0.16	ppb	3.72	200	98.7	75 - 125	
118 Sn	115	1	199.90	1.00	ppb	3.16	200	99.5	75 - 125	
121 Sb	115	1	199.40	0.67	ppb	2.40	200	99.4	75 - 125	
137 Ba	115	1	494.20	292.30	ppb	2.13	200	100.4	75 - 125	
205 Tl	165	1	189.40	0.05	ppb	2.43	200	94.7	75 - 125	
208 Pb	165	1	265.10	85.34	ppb	3.11	200	92.9	75 - 125	
232 Th	165	1	0.08	0.09	ppb	2.49	200	0.0	75 - 125	
238 U	165	1	191.80	0.09	ppb	3.76	200	95.9	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	577080	0.63	636892	90.6	30 - 120	
45 Sc	1	2621795	1.91	2802985	93.5	30 - 120	
72 Ge	1	1573186	0.84	1725157	91.2	30 - 120	
115 In	1	3928588	1.33	4341853	90.5	30 - 120	
165 Ho	1	7155926	1.77	7594191	94.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\247_MS.D\247_MS.D#
Date Acquired: Dec 29 2011 05:02 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23623-a-2-d ms
Misc Info: MATRIX SPIKE
Vial Number: 4410
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	41.72	0.00	ppb	2.44	40	104.3	50 - 150	
51 V	72	1	44.41	0.22	ppb	1.85	40	110.4	50 - 150	
52 Cr	72	1	43.10	0.21	ppb	1.87	40	107.2	50 - 150	
55 Mn	72	1	2491.00	2403.00	ppb	0.69	40	102.0	50 - 150	
59 Co	72	1	42.26	0.17	ppb	1.52	40	105.2	50 - 150	
60 Ni	72	1	46.15	6.27	ppb	0.76	40	99.7	50 - 150	
63 Cu	72	1	198.90	173.40	ppb	0.81	40	93.2	50 - 150	
66 Zn	72	1	230.30	191.10	ppb	0.55	40	99.7	50 - 150	
75 As	72	1	49.87	9.13	ppb	0.77	40	101.5	50 - 150	
78 Se	72	1	40.96	0.05	ppb	4.11	40	102.3	50 - 150	
95 Mo	72	1	42.22	0.13	ppb	0.98	40	105.2	50 - 150	
107 Ag	115	1	41.48	0.02	ppb	1.41	40	103.6	50 - 150	
111 Cd	115	1	41.14	0.16	ppb	2.19	40	102.4	50 - 150	
118 Sn	115	1	41.70	1.00	ppb	2.81	40	101.7	50 - 150	
121 Sb	115	1	40.89	0.67	ppb	2.64	40	100.5	50 - 150	
137 Ba	115	1	338.70	292.30	ppb	1.75	40	101.9	50 - 150	
205 Tl	165	1	41.90	0.05	ppb	0.73	40	104.6	50 - 150	
208 Pb	165	1	126.80	85.34	ppb	0.35	40	101.2	50 - 150	
232 Th	165	1	43.23	0.09	ppb	1.43	40	107.8	50 - 150	
238 U	165	1	43.04	0.09	ppb	1.07	40	107.4	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	575827	3.20	636892	90.4	30 - 120	
45 Sc	1	2595196	0.60	2802985	92.6	30 - 120	
72 Ge	1	1580128	0.63	1725157	91.6	30 - 120	
115 In	1	3880585	1.21	4341853	89.4	30 - 120	
165 Ho	1	7030654	0.99	7594191	92.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\248_MSD.D\248_MSD.D#
Date Acquired: Dec 29 2011 05:05 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23623-a-2-e msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 4411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\247_MS.D\247_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	42.86	ppb	3.73	41.72	2.70	20	
51 V	72	1	46.04	ppb	2.30	44.41	3.60	20	
52 Cr	72	1	44.79	ppb	1.07	43.10	3.85	20	
55 Mn	72	1	2573.00	ppb	0.92	2491.00	3.24	20	
59 Co	72	1	44.00	ppb	0.92	42.26	4.03	20	
60 Ni	72	1	48.20	ppb	0.46	46.15	4.35	20	
63 Cu	72	1	213.70	ppb	0.35	198.90	7.17	20	
66 Zn	72	1	238.80	ppb	0.49	230.30	3.62	20	
75 As	72	1	51.93	ppb	0.99	49.87	4.05	20	
78 Se	72	1	42.24	ppb	1.72	40.96	3.08	20	
95 Mo	72	1	44.36	ppb	1.44	42.22	4.94	20	
107 Ag	115	1	43.67	ppb	2.67	41.48	5.14	20	
111 Cd	115	1	42.98	ppb	2.04	41.14	4.37	20	
118 Sn	115	1	43.94	ppb	1.36	41.70	5.23	20	
121 Sb	115	1	42.80	ppb	0.79	40.89	4.56	20	
137 Ba	115	1	359.80	ppb	2.08	338.70	6.04	20	
205 Tl	165	1	43.03	ppb	0.93	41.90	2.66	20	
208 Pb	165	1	132.00	ppb	0.19	126.80	4.02	20	
232 Th	165	1	45.28	ppb	2.14	43.23	4.63	20	
238 U	165	1	44.29	ppb	1.79	43.04	2.86	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	572111	1.98	636892	89.8	30 - 120	
45 Sc	1	2569686	0.92	2802985	91.7	30 - 120	
72 Ge	1	1565014	0.97	1725157	90.7	30 - 120	
115 In	1	3840529	1.07	4341853	88.5	30 - 120	
165 Ho	1	6952840	0.62	7594191	91.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\249SMPL.D\249SMPL.D#
Date Acquired: Dec 29 2011 05:08 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23623-a-3-c
Misc Info:
Vial Number: 4412
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.03	0.03	ppb	1.61	3600	
51 V	72	1	0.05	0.05	ppb	6.64	3600	
52 Cr	72	1	0.06	0.06	ppb	4.37	3600	
55 Mn	72	1	2,721.00	2721.00	ppb	1.28	18000	
59 Co	72	1	1.20	1.20	ppb	1.95	3600	
60 Ni	72	1	9.53	9.53	ppb	0.73	3600	
63 Cu	72	1	4.05	4.05	ppb	0.45	3600	
66 Zn	72	1	7.50	7.50	ppb	2.27	3600	
75 As	72	1	0.39	0.39	ppb	3.49	3600	
78 Se	72	1	0.15	0.15	ppb	102.55	3600	
95 Mo	72	1	0.40	0.40	ppb	4.04	3600	
107 Ag	115	1	0.01	0.01	ppb	14.23	3600	
111 Cd	115	1	0.02	0.02	ppb	12.29	3600	
118 Sn	115	1	0.17	0.17	ppb	3.03	3600	
121 Sb	115	1	0.10	0.10	ppb	3.43	3600	
137 Ba	115	1	256.80	256.80	ppb	0.63	3600	
205 Tl	165	1	0.06	0.06	ppb	10.27	3600	
208 Pb	165	1	0.65	0.65	ppb	1.90	3600	
232 Th	165	1	0.05	0.05	ppb	2.81	1000	
238 U	165	1	1.23	1.23	ppb	1.98	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	580624	1.63	636892	91.2	30 - 120	
45 Sc	1	2658899	0.88	2802985	94.9	30 - 120	
72 Ge	1	1587569	1.30	1725157	92.0	30 - 120	
115 In	1	3946741	0.41	4341853	90.9	30 - 120	
165 Ho	1	7114016	0.43	7594191	93.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\250SMPL.D\250SMPL.D#
Date Acquired: Dec 29 2011 05:11 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-23623-a-4-c
Misc Info:
Vial Number: 4501
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.00	0.00	ppb	173.23	3600	
51 V	72	1	0.09	0.09	ppb	12.09	3600	
52 Cr	72	1	0.04	0.04	ppb	17.04	3600	
55 Mn	72	1	201.40	201.40	ppb	1.19	18000	
59 Co	72	1	0.32	0.32	ppb	1.54	3600	
60 Ni	72	1	1.36	1.36	ppb	4.00	3600	
63 Cu	72	1	8.80	8.80	ppb	0.60	3600	
66 Zn	72	1	6.67	6.67	ppb	1.62	3600	
75 As	72	1	6.41	6.41	ppb	1.44	3600	
78 Se	72	1	0.02	0.02	ppb	288.70	3600	
95 Mo	72	1	0.45	0.45	ppb	2.80	3600	
107 Ag	115	1	0.00	0.00	ppb	33.10	3600	
111 Cd	115	1	0.01	0.01	ppb	99.51	3600	
118 Sn	115	1	0.10	0.10	ppb	5.77	3600	
121 Sb	115	1	0.26	0.26	ppb	5.21	3600	
137 Ba	115	1	28.22	28.22	ppb	2.54	3600	
205 Tl	165	1	0.03	0.03	ppb	5.16	3600	
208 Pb	165	1	0.22	0.22	ppb	3.73	3600	
232 Th	165	1	0.01	0.01	ppb	18.74	1000	
238 U	165	1	0.04	0.04	ppb	3.70	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	558743	0.63	636892	87.7	30 - 120	
45 Sc	1	2661732	2.61	2802985	95.0	30 - 120	
72 Ge	1	1580140	1.76	1725157	91.6	30 - 120	
115 In	1	3940611	1.87	4341853	90.8	30 - 120	
165 Ho	1	7074835	1.01	7594191	93.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\251_CCV.D\251_CCV.D#
Date Acquired: Dec 29 2011 05:14 am
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	47.76	ppb	3.50	50	95.5	90 - 110	
51 V	72	1	50.78	ppb	3.52	50	101.6	90 - 110	
52 Cr	72	1	50.00	ppb	3.70	50	100.0	90 - 110	
55 Mn	72	1	49.60	ppb	1.86	50	99.2	90 - 110	
59 Co	72	1	49.65	ppb	1.84	50	99.3	90 - 110	
60 Ni	72	1	48.79	ppb	2.11	50	97.6	90 - 110	
63 Cu	72	1	49.01	ppb	2.47	50	98.0	90 - 110	
66 Zn	72	1	48.11	ppb	2.67	50	96.2	90 - 110	
75 As	72	1	48.81	ppb	1.68	50	97.6	90 - 110	
78 Se	72	1	49.70	ppb	1.85	50	99.4	90 - 110	
95 Mo	72	1	48.04	ppb	2.31	50	96.1	90 - 110	
107 Ag	115	1	48.83	ppb	1.08	50	97.7	90 - 110	
111 Cd	115	1	48.29	ppb	1.61	50	96.6	90 - 110	
118 Sn	115	1	46.06	ppb	2.85	50	92.1	90 - 110	
121 Sb	115	1	46.76	ppb	2.45	50	93.5	90 - 110	
137 Ba	115	1	48.21	ppb	3.15	50	96.4	90 - 110	
205 Tl	165	1	48.66	ppb	1.01	50	97.3	90 - 110	
208 Pb	165	1	47.26	ppb	1.11	50	94.5	90 - 110	
232 Th	165	1	48.64	ppb	2.74	50	97.3	90 - 110	
238 U	165	1	47.73	ppb	1.58	50	95.5	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	674965	0.89	636892	106.0	30 - 120	
45 Sc	1	2994595	0.67	2802985	106.8	30 - 120	
72 Ge	1	1810369	0.82	1725157	104.9	30 - 120	
115 In	1	4585272	0.60	4341853	105.6	30 - 120	
165 Ho	1	8041468	0.50	7594191	105.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\252_CCB.D\252_CCB.D#
Date Acquired: Dec 29 2011 05:16 am
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.018	ppb	34.15	1.00	
51 V	72	1	0.007	ppb	104.38	1.00	
52 Cr	72	1	0.008	ppb	89.96	1.00	
55 Mn	72	1	0.119	ppb	6.10	1.00	
59 Co	72	1	0.005	ppb	40.61	1.00	
60 Ni	72	1	0.006	ppb	72.56	1.00	
63 Cu	72	1	0.010	ppb	66.09	1.00	
66 Zn	72	1	0.003	ppb	201.89	1.00	
75 As	72	1	0.014	ppb	13.61	1.00	
78 Se	72	1	0.048	ppb	876.33	1.00	
95 Mo	72	1	-0.014	ppb	24.71	1.00	
107 Ag	115	1	0.010	ppb	9.49	1.00	
111 Cd	115	1	-0.001	ppb	1633.40	1.00	
118 Sn	115	1	0.037	ppb	28.92	1.00	
121 Sb	115	1	0.023	ppb	8.61	1.00	
137 Ba	115	1	0.017	ppb	14.63	1.00	
205 Tl	165	1	0.023	ppb	9.36	1.00	
208 Pb	165	1	0.010	ppb	2.79	1.00	
232 Th	165	1	0.052	ppb	6.45	1.00	
238 U	165	1	0.014	ppb	14.03	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	664361	0.72	636892	104.3	30 - 120	
45 Sc	1	3010938	1.44	2802985	107.4	30 - 120	
72 Ge	1	1815584	2.01	1725157	105.2	30 - 120	
115 In	1	4587388	2.21	4341853	105.7	30 - 120	
165 Ho	1	8085388	0.20	7594191	106.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\253WASH.D\253WASH.D#
Date Acquired: Dec 29 2011 05:19 am
Operator: LRD
Sample Name: LLICV-1192706
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.009 ppb	5.90	1.30	
51 V	72	1	4.788 ppb	1.62	6.50	
52 Cr	72	1	1.914 ppb	3.85	2.60	
55 Mn	72	1	1.057 ppb	0.94	1.30	
59 Co	72	1	0.973 ppb	3.57	1.30	
60 Ni	72	1	1.959 ppb	2.64	2.60	
63 Cu	72	1	1.907 ppb	3.56	2.60	
66 Zn	72	1	9.631 ppb	2.99	13.00	
75 As	72	1	4.914 ppb	2.84	6.50	
78 Se	72	1	4.813 ppb	12.70	6.50	
95 Mo	72	1	1.862 ppb	5.08	2.60	
107 Ag	115	1	4.905 ppb	1.02	6.50	
111 Cd	115	1	0.964 ppb	2.55	1.30	
118 Sn	115	1	9.203 ppb	1.50	13.00	
121 Sb	115	1	1.848 ppb	1.51	2.60	
137 Ba	115	1	0.979 ppb	2.79	1.30	
205 Tl	165	1	0.956 ppb	1.25	1.30	
208 Pb	165	1	0.935 ppb	3.01	1.30	
232 Th	165	1	1.874 ppb	4.90	2.60	
238 U	165	1	0.928 ppb	2.21	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	672747	0.72	636892	105.6	30 - 120	
45 Sc	1	3043380	0.92	2802985	108.6	30 - 120	
72 Ge	1	1828483	0.03	1725157	106.0	30 - 120	
115 In	1	4641642	1.26	4341853	106.9	30 - 120	
165 Ho	1	8062668	1.06	7594191	106.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\254_BLK.D\254_BLK.D#
Date Acquired: Dec 29 2011 05:22 am
Operator: LRD
Sample Name: mb 280-101054/1-b
Misc Info: BLANK 101438 200.8
Vial Number: 3410
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.003 ppb	173.23	2.00	
51 V	72	1	-0.038 ppb	75.46	2.00	
52 Cr	72	1	0.024 ppb	10.33	2.00	
55 Mn	72	1	0.105 ppb	12.45	2.00	
59 Co	72	1	0.001 ppb	290.76	2.00	
60 Ni	72	1	0.024 ppb	16.26	2.00	
63 Cu	72	1	0.092 ppb	22.43	2.00	
66 Zn	72	1	0.892 ppb	6.17	2.00	
75 As	72	1	0.106 ppb	16.48	2.00	
78 Se	72	1	-0.061 ppb	385.60	2.00	
95 Mo	72	1	-0.034 ppb	7.75	2.00	
107 Ag	115	1	0.011 ppb	11.23	2.00	
111 Cd	115	1	0.008 ppb	92.52	2.00	
118 Sn	115	1	0.147 ppb	3.92	2.00	
121 Sb	115	1	0.024 ppb	11.48	2.00	
137 Ba	115	1	0.122 ppb	8.14	2.00	
205 Tl	165	1	0.048 ppb	37.72	2.00	
208 Pb	165	1	0.045 ppb	16.16	2.00	
232 Th	165	1	0.009 ppb	14.95	2.00	
238 U	165	1	0.003 ppb	9.98	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	717294	0.30	636892	112.6	30 - 120	
45 Sc	1	3217500	1.52	2802985	114.8	30 - 120	
72 Ge	1	1888230	0.65	1725157	109.5	30 - 120	
115 In	1	4912286	1.23	4341853	113.1	30 - 120	
165 Ho	1	8545277	0.55	7594191	112.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\255_LCS.D\255_LCS.D#
Date Acquired: Dec 29 2011 05:25 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-101054/2-b
Misc Info: LCS
Vial Number: 3411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	29.66	1.77	40	74.2	80 - 120	
51 V	72	1	28.79	1.00	40	72.0	80 - 120	
52 Cr	72	1	28.92	0.77	40	72.3	80 - 120	
55 Mn	72	1	28.54	0.99	40	71.4	80 - 120	
59 Co	72	1	30.03	1.21	40	75.1	80 - 120	
60 Ni	72	1	29.64	2.95	40	74.1	80 - 120	
63 Cu	72	1	28.77	1.79	40	71.9	80 - 120	
66 Zn	72	1	30.41	0.53	40	76.0	80 - 120	
75 As	72	1	30.09	0.88	40	75.2	80 - 120	
78 Se	72	1	30.25	3.27	40	75.6	80 - 120	
95 Mo	72	1	29.22	1.49	40	73.1	80 - 120	
107 Ag	115	1	28.80	0.77	40	72.0	80 - 120	
111 Cd	115	1	28.46	1.35	40	71.2	80 - 120	
118 Sn	115	1	27.21	0.55	40	68.0	80 - 120	
121 Sb	115	1	27.77	0.13	40	69.4	80 - 120	
137 Ba	115	1	28.47	1.02	40	71.2	80 - 120	
205 Tl	165	1	29.47	0.71	40	73.7	80 - 120	
208 Pb	165	1	28.19	0.36	40	70.5	80 - 120	
232 Th	165	1	28.52	2.45	40	71.3	80 - 120	
238 U	165	1	29.07	0.67	40	72.7	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	703854	1.43	636892	110.5	30 - 120	
45 Sc	1	3106636	2.06	2802985	110.8	30 - 120	
72 Ge	1	1845651	1.41	1725157	107.0	30 - 120	
115 In	1	4847258	0.64	4341853	111.6	30 - 120	
165 Ho	1	8484907	0.98	7594191	111.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\256AREF.D\256AREF.D#
Date Acquired: Dec 29 2011 05:28 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24039-b-1-b
Misc Info:
Vial Number: 3412
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.06	0.06	ppb	33.71	3600	
51 V	72	1	7.38	7.38	ppb	3.72	3600	
52 Cr	72	1	0.85	0.85	ppb	2.34	3600	
55 Mn	72	1	42.72	42.72	ppb	3.90	18000	
59 Co	72	1	0.75	0.75	ppb	3.59	3600	
60 Ni	72	1	3.11	3.11	ppb	2.78	3600	
63 Cu	72	1	69.60	69.60	ppb	0.53	3600	
66 Zn	72	1	82.79	82.79	ppb	1.97	3600	
75 As	72	1	0.84	0.84	ppb	3.77	3600	
78 Se	72	1	1.88	1.88	ppb	38.57	3600	
95 Mo	72	1	1.96	1.96	ppb	4.01	3600	
107 Ag	115	1	0.02	0.02	ppb	7.46	3600	
111 Cd	115	1	0.08	0.08	ppb	4.11	3600	
118 Sn	115	1	0.40	0.40	ppb	5.90	3600	
121 Sb	115	1	0.23	0.23	ppb	9.31	3600	
137 Ba	115	1	66.74	66.74	ppb	2.18	3600	
205 Tl	165	1	0.03	0.03	ppb	4.30	3600	
208 Pb	165	1	0.49	0.49	ppb	3.22	3600	
232 Th	165	1	0.06	0.06	ppb	5.93	1000	
238 U	165	1	7.26	7.26	ppb	2.83	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	634618	0.86	636892	99.6	30 - 120	
45 Sc	1	2797590	1.03	2802985	99.8	30 - 120	
72 Ge	1	1647547	0.22	1725157	95.5	30 - 120	
115 In	1	4286356	0.53	4341853	98.7	30 - 120	
165 Ho	1	7892562	0.39	7594191	103.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\257_MS.D\257_MS.D#
Date Acquired: Dec 29 2011 05:31 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24039-b-1-c ms
Misc Info: MATRIX SPIKE
Vial Number: 3501
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	30.80	0.06	ppb	4.12	40	76.9	50 - 150	
51 V	72	1	38.33	7.38	ppb	3.09	40	80.9	50 - 150	
52 Cr	72	1	29.76	0.85	ppb	1.71	40	72.9	50 - 150	
55 Mn	72	1	75.59	42.72	ppb	1.60	40	91.4	50 - 150	
59 Co	72	1	30.89	0.75	ppb	2.21	40	75.8	50 - 150	
60 Ni	72	1	32.09	3.11	ppb	1.01	40	74.4	50 - 150	
63 Cu	72	1	101.00	69.60	ppb	0.88	40	92.2	50 - 150	
66 Zn	72	1	116.00	82.79	ppb	0.92	40	94.5	50 - 150	
75 As	72	1	32.66	0.84	ppb	0.86	40	80.0	50 - 150	
78 Se	72	1	35.82	1.88	ppb	3.30	40	85.5	50 - 150	
95 Mo	72	1	32.32	1.96	ppb	1.64	40	77.0	50 - 150	
107 Ag	115	1	27.80	0.02	ppb	0.64	40	69.5	50 - 150	
111 Cd	115	1	29.03	0.08	ppb	0.35	40	72.4	50 - 150	
118 Sn	115	1	27.47	0.40	ppb	1.72	40	68.0	50 - 150	
121 Sb	115	1	28.78	0.23	ppb	1.06	40	71.5	50 - 150	
137 Ba	115	1	99.86	66.74	ppb	0.75	40	93.6	50 - 150	
205 Tl	165	1	28.56	0.03	ppb	1.02	40	71.4	50 - 150	
208 Pb	165	1	27.65	0.49	ppb	0.76	40	68.3	50 - 150	
232 Th	165	1	27.65	0.06	ppb	2.58	40	69.0	50 - 150	
238 U	165	1	37.76	7.26	ppb	2.18	40	79.9	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	618924	2.30	636892	97.2	30 - 120	
45 Sc	1	2712581	0.42	2802985	96.8	30 - 120	
72 Ge	1	1609418	0.97	1725157	93.3	30 - 120	
115 In	1	4207372	0.65	4341853	96.9	30 - 120	
165 Ho	1	7762178	0.37	7594191	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\258_MSD.D\258_MSD.D#
Date Acquired: Dec 29 2011 05:34 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24039-b-1-d msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3502
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG122811.B\257_MS.D\257_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	30.28	ppb	4.68	30.80	1.70	20	
51 V	72	1	37.58	ppb	6.44	38.33	1.98	20	
52 Cr	72	1	29.04	ppb	3.77	29.76	2.45	20	
55 Mn	72	1	74.15	ppb	3.06	75.59	1.92	20	
59 Co	72	1	30.10	ppb	4.73	30.89	2.59	20	
60 Ni	72	1	30.93	ppb	1.52	32.09	3.68	20	
63 Cu	72	1	99.02	ppb	3.09	101.00	1.98	20	
66 Zn	72	1	113.50	ppb	3.37	116.00	2.18	20	
75 As	72	1	31.83	ppb	3.17	32.66	2.57	20	
78 Se	72	1	35.84	ppb	7.12	35.82	0.06	20	
95 Mo	72	1	32.28	ppb	3.36	32.32	0.12	20	
107 Ag	115	1	27.24	ppb	2.23	27.80	2.03	20	
111 Cd	115	1	28.30	ppb	2.76	29.03	2.55	20	
118 Sn	115	1	27.33	ppb	3.92	27.47	0.51	20	
121 Sb	115	1	28.76	ppb	3.48	28.78	0.07	20	
137 Ba	115	1	98.63	ppb	3.82	99.86	1.24	20	
205 Tl	165	1	28.10	ppb	1.64	28.56	1.62	20	
208 Pb	165	1	27.04	ppb	1.33	27.65	2.23	20	
232 Th	165	1	26.96	ppb	3.20	27.65	2.53	20	
238 U	165	1	36.89	ppb	2.19	37.76	2.33	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	607569	2.05	636892	95.4	30 - 120	
45 Sc	1	2683849	1.04	2802985	95.7	30 - 120	
72 Ge	1	1607919	1.30	1725157	93.2	30 - 120	
115 In	1	4179097	1.40	4341853	96.3	30 - 120	
165 Ho	1	7717295	0.84	7594191	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\259SMPL.D\259SMPL.D#
Date Acquired: Dec 29 2011 05:37 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24039-b-2-b
Misc Info:
Vial Number: 3503
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.02	0.02	ppb	86.65	3600	
51 V	72	1	1.64	1.64	ppb	4.81	3600	
52 Cr	72	1	0.30	0.30	ppb	7.84	3600	
55 Mn	72	1	16.26	16.26	ppb	2.92	18000	
59 Co	72	1	0.69	0.69	ppb	5.17	3600	
60 Ni	72	1	2.04	2.04	ppb	4.02	3600	
63 Cu	72	1	8.12	8.12	ppb	1.33	3600	
66 Zn	72	1	42.60	42.60	ppb	2.18	3600	
75 As	72	1	0.41	0.41	ppb	5.27	3600	
78 Se	72	1	2.17	2.17	ppb	13.46	3600	
95 Mo	72	1	3.72	3.72	ppb	3.14	3600	
107 Ag	115	1	0.02	0.02	ppb	35.46	3600	
111 Cd	115	1	0.05	0.05	ppb	16.29	3600	
118 Sn	115	1	0.16	0.16	ppb	7.60	3600	
121 Sb	115	1	0.34	0.34	ppb	0.88	3600	
137 Ba	115	1	36.78	36.78	ppb	1.24	3600	
205 Tl	165	1	0.01	0.01	ppb	4.91	3600	
208 Pb	165	1	0.09	0.09	ppb	1.52	3600	
232 Th	165	1	0.05	0.05	ppb	3.44	1000	
238 U	165	1	3.93	3.93	ppb	2.86	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	598060	1.70	636892	93.9	30 - 120	
45 Sc	1	2705300	1.28	2802985	96.5	30 - 120	
72 Ge	1	1584755	0.51	1725157	91.9	30 - 120	
115 In	1	4152282	0.74	4341853	95.6	30 - 120	
165 Ho	1	7639944	1.27	7594191	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\260SMPL.D\260SMPL.D#
Date Acquired: Dec 29 2011 05:40 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24039-a-3-b
Misc Info:
Vial Number: 3504
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.01	0.01	ppb	86.60	3600	
51 V	72	1	0.40	0.40	ppb	12.70	3600	
52 Cr	72	1	0.21	0.21	ppb	0.64	3600	
55 Mn	72	1	22.50	22.50	ppb	1.83	18000	
59 Co	72	1	0.10	0.10	ppb	1.51	3600	
60 Ni	72	1	0.77	0.77	ppb	4.19	3600	
63 Cu	72	1	1.68	1.68	ppb	2.35	3600	
66 Zn	72	1	6.04	6.04	ppb	0.91	3600	
75 As	72	1	0.57	0.57	ppb	2.67	3600	
78 Se	72	1	0.96	0.96	ppb	41.69	3600	
95 Mo	72	1	3.97	3.97	ppb	1.38	3600	
107 Ag	115	1	0.01	0.01	ppb	15.68	3600	
111 Cd	115	1	0.01	0.01	ppb	110.28	3600	
118 Sn	115	1	0.10	0.10	ppb	5.11	3600	
121 Sb	115	1	0.10	0.10	ppb	5.04	3600	
137 Ba	115	1	53.35	53.35	ppb	1.40	3600	
205 Tl	165	1	0.01	0.01	ppb	15.63	3600	
208 Pb	165	1	0.13	0.13	ppb	3.12	3600	
232 Th	165	1	0.01	0.01	ppb	14.87	1000	
238 U	165	1	6.65	6.65	ppb	2.11	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	622492	0.44	636892	97.7	30 - 120	
45 Sc	1	2773740	0.99	2802985	99.0	30 - 120	
72 Ge	1	1643840	1.34	1725157	95.3	30 - 120	
115 In	1	4380448	1.01	4341853	100.9	30 - 120	
165 Ho	1	8055293	1.16	7594191	106.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\261SMPL.D\261SMPL.D#
Date Acquired: Dec 29 2011 05:43 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-24039-a-4-b
Misc Info:
Vial Number: 3505
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Dec 29 2011 03:59 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.02	0.02	ppb	70.70	3600	
51 V	72	1	0.04	0.04	ppb	183.41	3600	
52 Cr	72	1	0.20	0.20	ppb	3.73	3600	
55 Mn	72	1	0.16	0.16	ppb	5.97	18000	
59 Co	72	1	0.06	0.06	ppb	3.81	3600	
60 Ni	72	1	1.56	1.56	ppb	5.03	3600	
63 Cu	72	1	0.28	0.28	ppb	4.53	3600	
66 Zn	72	1	5.76	5.76	ppb	1.07	3600	
75 As	72	1	0.40	0.40	ppb	1.35	3600	
78 Se	72	1	0.24	0.24	ppb	144.17	3600	
95 Mo	72	1	3.28	3.28	ppb	0.92	3600	
107 Ag	115	1	0.01	0.01	ppb	31.56	3600	
111 Cd	115	1	0.00	0.00	ppb	562.80	3600	
118 Sn	115	1	0.05	0.05	ppb	7.85	3600	
121 Sb	115	1	0.10	0.10	ppb	6.74	3600	
137 Ba	115	1	53.15	53.15	ppb	0.31	3600	
205 Tl	165	1	0.00	0.00	ppb	24.03	3600	
208 Pb	165	1	0.02	0.02	ppb	6.53	3600	
232 Th	165	1	0.01	0.01	ppb	17.95	1000	
238 U	165	1	4.31	4.31	ppb	3.06	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	636575	2.61	636892	100.0	30 - 120	
45 Sc	1	2763747	1.26	2802985	98.6	30 - 120	
72 Ge	1	1645309	0.89	1725157	95.4	30 - 120	
115 In	1	4317503	0.46	4341853	99.4	30 - 120	
165 Ho	1	7939879	1.29	7594191	104.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\262_CCV.D\262_CCV.D#
Date Acquired: Dec 29 2011 05:46 am
Operator: LRD
Sample Name: CCV-1192704
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	46.00	ppb	3.12	50	92.0	90 - 110	
51 V	72	1	46.52	ppb	3.14	50	93.0	90 - 110	
52 Cr	72	1	46.19	ppb	3.17	50	92.4	90 - 110	
55 Mn	72	1	45.99	ppb	4.03	50	92.0	90 - 110	
59 Co	72	1	46.66	ppb	2.38	50	93.3	90 - 110	
60 Ni	72	1	45.39	ppb	2.75	50	90.8	90 - 110	
63 Cu	72	1	45.16	ppb	5.03	50	90.3	90 - 110	
66 Zn	72	1	45.53	ppb	2.22	50	91.1	90 - 110	
75 As	72	1	45.64	ppb	2.04	50	91.3	90 - 110	
78 Se	72	1	46.94	ppb	2.66	50	93.9	90 - 110	
95 Mo	72	1	45.72	ppb	2.19	50	91.4	90 - 110	
107 Ag	115	1	45.43	ppb	0.28	50	90.9	90 - 110	
111 Cd	115	1	44.94	ppb	1.94	50	89.9	90 - 110	Fail
118 Sn	115	1	42.87	ppb	2.27	50	85.7	90 - 110	Fail
121 Sb	115	1	43.85	ppb	1.52	50	87.7	90 - 110	Fail
137 Ba	115	1	46.04	ppb	1.05	50	92.1	90 - 110	
205 Tl	165	1	46.56	ppb	1.46	50	93.1	90 - 110	
208 Pb	165	1	44.84	ppb	1.62	50	89.7	90 - 110	Fail
232 Th	165	1	45.68	ppb	3.30	50	91.4	90 - 110	
238 U	165	1	45.67	ppb	2.58	50	91.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	636815	1.57	636892	100.0	30 - 120	
45 Sc	1	2847738	0.75	2802985	101.6	30 - 120	
72 Ge	1	1758367	1.07	1725157	101.9	30 - 120	
115 In	1	4615545	0.90	4341853	106.3	30 - 120	
165 Ho	1	8368853	1.02	7594191	110.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

4 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG122811.B\263_CCB.D\263_CCB.D#
Date Acquired: Dec 29 2011 05:48 am
Operator: LRD
Sample Name: CCB-1192705
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Dec 29 2011 03:59 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9 Be	6	1	0.008	ppb	86.60	1.00	
51 V	72	1	0.002	ppb	403.86	1.00	
52 Cr	72	1	0.002	ppb	493.63	1.00	
55 Mn	72	1	0.025	ppb	13.17	1.00	
59 Co	72	1	0.006	ppb	21.97	1.00	
60 Ni	72	1	0.007	ppb	108.34	1.00	
63 Cu	72	1	0.012	ppb	33.40	1.00	
66 Zn	72	1	-0.009	ppb	94.12	1.00	
75 As	72	1	0.015	ppb	38.17	1.00	
78 Se	72	1	-0.054	ppb	173.08	1.00	
95 Mo	72	1	-0.011	ppb	113.85	1.00	
107 Ag	115	1	0.012	ppb	19.43	1.00	
111 Cd	115	1	0.006	ppb	32.35	1.00	
118 Sn	115	1	0.041	ppb	20.62	1.00	
121 Sb	115	1	0.018	ppb	5.23	1.00	
137 Ba	115	1	0.014	ppb	42.26	1.00	
205 Tl	165	1	0.025	ppb	7.27	1.00	
208 Pb	165	1	0.016	ppb	13.10	1.00	
232 Th	165	1	0.066	ppb	3.70	1.00	
238 U	165	1	0.017	ppb	10.69	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	626955	0.75	636892	98.4	30 - 120	
45 Sc	1	2859343	1.32	2802985	102.0	30 - 120	
72 Ge	1	1741716	1.24	1725157	101.0	30 - 120	
115 In	1	4644533	0.22	4341853	107.0	30 - 120	
165 Ho	1	8252001	0.88	7594191	108.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG122811.B\224CALB.D\224CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

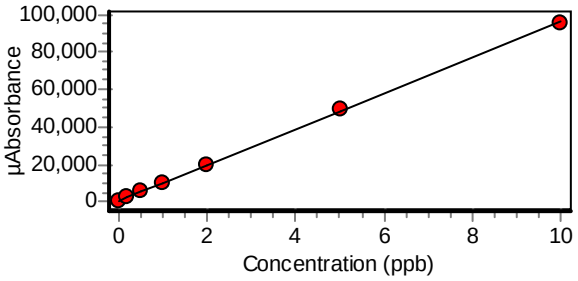
Report Generated By CETAC QuickTrace
Analyst: RawlingsB
Worksheet file: C:\Program Files\QuickTrace\Worksheets\Dec 2011\111212ab.wsz
Date Started: 12/13/2011 9:47:47 AM
Comment:

Results

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt. ODF	Vol.
Cal Blank	STD	12/13/11 11:17:17 am	0.000	380	0.19		1.00 1.00	1.00
Std1	STD	12/13/11 11:19:35 am	0.200	2378	1.07		1.00 1.00	1.00
Std2	STD	12/13/11 11:21:53 am	0.500	5416	0.12		1.00 1.00	1.00
Std3	STD	12/13/11 11:24:12 am	1.000	9993	0.50		1.00 1.00	1.00
Std4	STD	12/13/11 11:26:31 am	2.000	19604	0.45		1.00 1.00	1.00
Std5	STD	12/13/11 11:28:51 am	5.000	49743	0.06		1.00 1.00	1.00
Std6	STD	12/13/11 11:31:11 am	10.000	95784	0.50		1.00 1.00	1.00

Calibration

Equation: A = 604.086 + 9575.891C
R2: 0.99972
SEE: 640.2875
Flags:



ICV 1169593	ICV	12/13/11 11:33:38 am	4.092	39786	0.28		1.00 1.00	1.00
% Recovery 102.29								
ICB	ICB	12/13/11 11:35:55 am	-0.024	370	0.44		1.00 1.00	1.00
CRA 1169595	CRDL	12/13/11 11:38:13 am	0.186	2383	0.18		1.00 1.00	1.00
% Recovery 92.91								

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol. ODF
CCV 1169594	CCV	12/13/11 11:40:33 am	5.144	49864	0.11		1.00	1.00
% Recovery 102.88							1.00	
CCB	CCB	12/13/11 11:42:50 am	-0.026	359	1.27		1.00	1.00
							1.00	
MB 280-98640/1-A	UNK	12/13/11 11:45:09 am	-0.024	370	0.57		1.00	1.00
							1.00	
LCS 280-98640/2-A	UNK	12/13/11 11:47:28 am	4.913	47651	1.25		1.00	1.00
							1.00	
280-23316-A-1-B	UNK	12/13/11 11:49:47 am	-0.021	404	0.21		1.00	1.00
							1.00	
280-23320-N-1-B	UNK	12/13/11 12:03:30 pm	-0.058	46	5.59		1.00	1.00
							1.00	
280-23320-N-2-B	UNK	12/13/11 12:05:50 pm	-0.062	14	20.98		1.00	1.00
							1.00	
CCV 1169594	CCV	12/13/11 12:08:10 pm	5.073	49183	0.56		1.00	1.00
% Recovery 101.46							1.00	
CCB	CCB	12/13/11 12:10:28 pm	-0.026	356	0.57		1.00	1.00
							1.00	
280-23320-N-3-B	UNK	12/13/11 12:12:46 pm	-0.021	399	4.10		1.00	1.00
							1.00	
280-23320-N-5-B	UNK	12/13/11 12:15:04 pm	-0.046	162	4.18		1.00	1.00
							1.00	
280-23326-G-1-B	UNK	12/13/11 12:17:22 pm	0.062	1198	1.30		1.00	1.00
							1.00	
280-23334-H-1-B	UNK	12/13/11 12:19:40 pm	-0.031	304	0.67		1.00	1.00
							1.00	
280-23334-H-2-B	UNK	12/13/11 12:21:58 pm	-0.026	351	0.80		1.00	1.00
							1.00	
280-23334-H-3-B	UNK	12/13/11 12:24:16 pm	-0.050	127	3.44		1.00	1.00
							1.00	
280-23334-H-4-B 10x	UNK	12/13/11 12:30:39 pm	3.818	37169	0.37		1.00	1.00
							1.00	
280-23334-H-5-B	UNK	12/13/11 12:37:02 pm	0.013	733	0.82		1.00	1.00
							1.00	

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol.	ODF
280-23334-H-6-B	UNK	12/13/11 12:41:05 pm	-0.003	577	2.38		1.00	1.00	1.00
280-23334-H-7-B	UNK	12/13/11 12:47:58 pm	0.111	1668	0.63		1.00	1.00	1.00
CCV 1169594	CCV	12/13/11 12:50:21 pm	5.041	48880	0.26		1.00	1.00	1.00
% Recovery 100.83									
CCB	CCB	12/13/11 12:52:38 pm	-0.024	375	0.41		1.00	1.00	1.00
280-23382-J-1-A	UNK	12/13/11 12:54:58 pm	-0.017	437	1.39		1.00	1.00	1.00
280-23383-E-1-A	UNK	12/13/11 12:57:18 pm	-0.048	146	3.28		1.00	1.00	1.00
280-23383-E-3-A	UNK	12/13/11 12:59:36 pm	-0.025	363	2.35		1.00	1.00	1.00
280-23337-I-1-A	UNK	12/13/11 01:01:54 pm	-0.022	391	0.69		1.00	1.00	1.00
280-23337-I-1-B MS	UNK	12/13/11 01:04:12 pm	4.545	44128	1.27		1.00	1.00	1.00
280-23337-I-1-C MSD	UNK	12/13/11 01:06:31 pm	4.343	42196	0.28		1.00	1.00	1.00
280-23337-I-2-A	UNK	12/13/11 01:08:52 pm	-0.024	377	2.68		1.00	1.00	1.00
280-23337-I-3-A	UNK	12/13/11 01:13:04 pm	-0.012	486	0.38		1.00	1.00	1.00
MB 280-99591/1-A	UNK	12/13/11 01:15:23 pm	-0.024	374	3.58		1.00	1.00	1.00
LCS 280-99591/2-A	UNK	12/13/11 01:17:41 pm	4.642	45054	0.07		1.00	1.00	1.00
CCV 1169594	CCV	12/13/11 01:20:01 pm	5.099	49435	0.23		1.00	1.00	1.00
% Recovery 101.99									
CCB	CCB	12/13/11 01:22:18 pm	-0.021	406	0.81		1.00	1.00	1.00
280-23636-L-1-D	UNK	12/13/11 01:24:37 pm	0.006	663	1.95		1.00	1.00	1.00

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol.	ODF
280-23654-K-1-B	UNK	12/13/11 01:26:56 pm	0.009	686	0.16		1.00	1.00	1.00
280-23656-E-1-C	UNK	12/13/11 01:29:16 pm	-0.022	391	1.30		1.00	1.00	1.00
280-23656-E-2-C	UNK	12/13/11 01:31:36 pm	-0.026	357	2.62		1.00	1.00	1.00
280-23656-E-3-C	UNK	12/13/11 01:33:54 pm	-0.019	426	1.12		1.00	1.00	1.00
280-23656-E-4-C	UNK	12/13/11 01:36:13 pm	-0.023	385	1.53		1.00	1.00	1.00
280-23656-E-5-C	UNK	12/13/11 01:47:21 pm	-0.017	446	2.20		1.00	1.00	1.00
280-23656-E-6-C	UNK	12/13/11 01:49:39 pm	-0.019	419	2.39		1.00	1.00	1.00
280-23656-E-7-C	UNK	12/13/11 01:51:58 pm	-0.023	385	0.56		1.00	1.00	1.00
280-23656-E-8-C	UNK	12/13/11 01:54:16 pm	-0.018	433	0.98		1.00	1.00	1.00
CCV 1169594	CCV	12/13/11 01:56:36 pm	5.080	49254	0.18		1.00	1.00	1.00
% Recovery 101.61									
CCB	CCB	12/13/11 01:58:53 pm	-0.021	401	0.74		1.00	1.00	1.00
280-23656-E-9-C	UNK	12/13/11 02:01:12 pm	-0.021	400	0.65		1.00	1.00	1.00
280-23656-E-11-C	UNK	12/13/11 02:03:31 pm	-0.023	384	2.08		1.00	1.00	1.00
280-23660-C-13-B	UNK	12/13/11 02:05:49 pm	-0.020	414	2.23		1.00	1.00	1.00
280-23660-C-14-B	UNK	12/13/11 02:08:09 pm	-0.020	415	1.59		1.00	1.00	1.00
280-23660-C-15-B	UNK	12/13/11 02:10:28 pm	-0.021	399	0.34		1.00	1.00	1.00
280-23660-C-16-B	UNK	12/13/11 02:12:48 pm	-0.016	451	0.56		1.00	1.00	1.00

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol.	ODF
280-23665-K-1-B	UNK	12/13/11 02:15:07 pm	0.015	748	0.40		1.00	1.00	1.00
280-23665-K-1-C MS	UNK	12/13/11 02:17:26 pm	3.996	38868	0.34		1.00	1.00	1.00
280-23665-K-1-D MSD	UNK	12/13/11 02:19:45 pm	3.758	36591	0.48		1.00	1.00	1.00
280-23665-K-2-B	UNK	12/13/11 02:22:03 pm	-0.014	473	3.43		1.00	1.00	1.00
CCV 1169594	CCV	12/13/11 02:24:23 pm	5.362	51954	3.82		1.00	1.00	1.00
% Recovery 107.25									
CCB	CCB	12/13/11 02:26:40 pm	-0.024	377	1.76		1.00	1.00	1.00
MB 280-99589/1-A	UNK	12/13/11 02:28:59 pm	-0.023	385	1.77		1.00	1.00	1.00
LCS 280-99589/2-A	UNK	12/13/11 02:31:18 pm	4.773	46307	1.05		1.00	1.00	1.00
280-23531-P-1-A	UNK	12/13/11 02:33:37 pm	-0.001	592	2.98		1.00	1.00	1.00
280-23531-P-2-A	UNK	12/13/11 02:35:55 pm	-0.020	414	0.60		1.00	1.00	1.00
280-23531-P-3-A	UNK	12/13/11 02:38:14 pm	-0.021	403	0.55		1.00	1.00	1.00
280-23606-A-1-A	UNK	12/13/11 02:40:34 pm	-0.021	405	4.13		1.00	1.00	1.00
280-23606-A-1-A sd@5	UNK	12/13/11 02:42:54 pm	-0.018	436	0.53		1.00	1.00	1.00
280-23606-A-1-B MS	UNK	12/13/11 02:45:13 pm	4.703	45641	0.05		1.00	1.00	1.00
280-23606-A-1-C MSD	UNK	12/13/11 02:47:33 pm	5.089	49332	1.86		1.00	1.00	1.00
280-23606-A-5-A	UNK	12/13/11 02:49:52 pm	-0.025	367	0.42		1.00	1.00	1.00
280-23606-A-13-A	UNK	12/13/11 02:52:11 pm	-0.016	447	1.05		1.00	1.00	1.00

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol. ODF
CCV 1169594	CCV	12/13/11 02:54:31 pm	5.072	49173	0.41		1.00	1.00
% Recovery 101.44							1.00	
CCB	CCB	12/13/11 02:56:48 pm	-0.023	389	2.59		1.00	1.00
							1.00	
280-23606-A-19-A	UNK	12/13/11 02:59:07 pm	-0.022	395	0.85		1.00	1.00
							1.00	
280-23606-A-23-A	UNK	12/13/11 03:01:26 pm	-0.022	394	0.28		1.00	1.00
							1.00	
280-23566-C-1-B	UNK	12/13/11 03:03:45 pm	-0.024	370	0.60		1.00	1.00
							1.00	
280-23566-C-2-B	UNK	12/13/11 03:06:04 pm	-0.023	388	1.06		1.00	1.00
							1.00	
280-23591-P-1-A	UNK	12/13/11 03:08:23 pm	-0.016	451	1.03		1.00	1.00
							1.00	
280-23591-P-2-A	UNK	12/13/11 03:10:43 pm	-0.019	418	0.89		1.00	1.00
							1.00	
MB 280-99467/1-A	UNK	12/13/11 03:13:02 pm	-0.021	398	1.37		1.00	1.00
							1.00	
LCS 280-99467/2-A	UNK	12/13/11 03:15:21 pm	4.556	44228	0.82		1.00	1.00
							1.00	
280-23515-Q-1-A	UNK	12/13/11 03:17:40 pm	-0.003	573	3.02		1.00	1.00
							1.00	
280-23589-M-1-C	UNK	12/13/11 03:20:00 pm	0.030	888	0.43		1.00	1.00
							1.00	
CCV 1169594	CCV	12/13/11 03:22:20 pm	5.025	48727	0.46		1.00	1.00
% Recovery 100.51							1.00	
CCB	CCB	12/13/11 03:24:37 pm	-0.025	366	0.34		1.00	1.00
							1.00	
280-23591-O-1-H	UNK	12/13/11 03:26:57 pm	-0.021	400	2.90		1.00	1.00
							1.00	
280-23591-O-1-D MS	UNK	12/13/11 03:29:16 pm	4.868	47216	3.12		1.00	1.00
							1.00	
280-23591-O-1-E MSD	UNK	12/13/11 03:31:36 pm	4.950	48008	1.32		1.00	1.00
							1.00	

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol.	ODF
280-23591-O-2-D	UNK	12/13/11 03:33:55 pm	-0.023	385	0.89		1.00	1.00	1.00
280-23592-C-1-B	UNK	12/13/11 03:36:15 pm	-0.023	386	2.31		1.00	1.00	1.00
280-23592-C-2-B	UNK	12/13/11 03:38:34 pm	0.166	2197	0.70		1.00	1.00	1.00
280-23592-C-3-B	UNK	12/13/11 03:40:54 pm	-0.031	303	2.18		1.00	1.00	1.00
280-23592-C-4-B	UNK	12/13/11 03:43:13 pm	-0.020	413	1.33		1.00	1.00	1.00
280-23592-C-5-B	UNK	12/13/11 03:45:33 pm	0.096	1526	0.79		1.00	1.00	1.00
280-23592-C-6-B	UNK	12/13/11 03:47:52 pm	-0.019	417	1.49		1.00	1.00	1.00
CCV 1169594 % Recovery 101.27	CCV	12/13/11 03:50:12 pm	5.063	49092	0.20		1.00	1.00	1.00
CCB	CCB	12/13/11 03:52:29 pm	-0.023	381	0.11		1.00	1.00	1.00
280-23592-C-7-B	UNK	12/13/11 03:54:49 pm	0.209	2606	0.81		1.00	1.00	1.00
280-23592-C-8-B	UNK	12/13/11 03:57:09 pm	-0.018	429	1.33		1.00	1.00	1.00
280-23592-C-9-B	UNK	12/13/11 03:59:29 pm	-0.028	338	1.29		1.00	1.00	1.00
280-23592-C-10-B	UNK	12/13/11 04:01:48 pm	1.993	19692	0.39		1.00	1.00	1.00
280-23592-C-11-B	UNK	12/13/11 04:04:08 pm	-0.045	174	1.13		1.00	1.00	1.00
MB 280-98735/1-A	UNK	12/13/11 04:06:28 pm	-0.022	394	1.40		1.00	1.00	1.00
LCS 280-98735/2-A	UNK	12/13/11 04:08:48 pm	4.645	45084	0.36		1.00	1.00	1.00
LCSD 280-98735/3-A	UNK	12/13/11 04:11:07 pm	4.632	44962	2.18		1.00	1.00	1.00

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol.	ODF
280-23404-A-1-A	UNK	12/13/11 04:13:27 pm	1.397	13980	2.44		1.00	1.00	1.00
280-23404-A-2-A	UNK	12/13/11 04:15:47 pm	0.744	7729	0.80		1.00	1.00	1.00
CCV 1169594	CCV	12/13/11 04:18:07 pm	5.288	51240	1.14		1.00	1.00	1.00
% Recovery 105.76									
CCB	CCB	12/13/11 04:20:24 pm	-0.022	392	1.62		1.00	1.00	1.00
280-23404-A-3-A	UNK	12/13/11 04:22:43 pm	4.559	44262	0.78		1.00	1.00	1.00
280-23404-A-4-A	UNK	12/13/11 04:25:03 pm	0.727	7566	2.05		1.00	1.00	1.00
280-23404-A-5-A	UNK	12/13/11 04:27:23 pm	0.302	3496	0.15		1.00	1.00	1.00
280-23404-A-6-A	UNK	12/13/11 04:29:43 pm	4.233	41135	0.25		1.00	1.00	1.00
280-23404-A-7-A	UNK	12/13/11 04:32:03 pm	0.156	2098	0.16		1.00	1.00	1.00
280-23404-A-8-A	UNK	12/13/11 04:34:23 pm	6.463	62493	2.07		1.00	1.00	1.00
280-23404-A-9-A	UNK	12/13/11 04:36:42 pm	0.700	7308	0.14		1.00	1.00	1.00
280-23404-A-10-A	UNK	12/13/11 04:39:02 pm	0.147	2014	0.36		1.00	1.00	1.00
280-23404-A-11-A	UNK	12/13/11 04:41:22 pm	0.049	1074	0.79		1.00	1.00	1.00
280-23404-A-12-A	UNK	12/13/11 04:43:42 pm	2.572	25236	0.19		1.00	1.00	1.00
CCV 1169594	CCV	12/13/11 04:46:02 pm	5.128	49706	0.22		1.00	1.00	1.00
% Recovery 102.55									
CCB	CCB	12/13/11 04:48:19 pm	-0.022	397	0.54		1.00	1.00	1.00
280-23404-A-13-A	UNK	12/13/11 04:50:39 pm	1.981	19573	0.81		1.00	1.00	1.00

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol.	ODF
280-23404-A-14-A	UNK	12/13/11 04:52:59 pm	9.362	90252	1.33		1.00	1.00	1.00
280-23320-N-1-B	UNK	12/13/11 04:55:19 pm	-0.065	-19	17.16		1.00	1.00	1.00
280-23320-N-2-B	UNK	12/13/11 04:57:39 pm	-0.064	-5	53.18		1.00	1.00	1.00
CCV 1169594	CCV	12/13/11 04:59:59 pm	5.054	49004	0.77		1.00	1.00	1.00
% Recovery 101.09									
CCB	CCB	12/13/11 05:02:16 pm	-0.021	400	0.74		1.00	1.00	1.00

Analysis Parameters

Instrument M-7500 Mercury Analyzer

Conditions

Gas flow (mL/min)	Sample Uptake (s)	Rinse (s)	Read delay (s)	Replicates (#)	Replicate time (s)	Pump speed (%)	Wavelength (nm)
100	40.00	90.00	65.00	4	1.50	50	253.65

Instrumental Zero

Zero before first sample: No

Zero periodically: Yes

Before each calibration.

Baseline Correction

#1 Start time (s)	#1 End time (s)	#2 Start time (s)	#2 End time (s)
20.00	24.00		

Standby Mode

Enabled: Yes

Standby Options: pump slow

Autodilution

Enabled: Yes

Condition: Saturate

Tube # range: 4:1 - 4:60

If no autodilution tubes remaining continue undiluted

Calibration

Settings

Algorithm	Through blank	Weighted fit	Cal. Type	Racalibration rate	Reslope rate	Reslope standard
Linear	No	No	Normal	0	0	N/A

Limits

Calibration slope		Reslope		Coeff. of Determination
Lower (%)	Upper (%)	Lower (%)	Upper (%)	
20	150	75	125	0.99500

Error action: Flag and continue

QC

GLP Override: Yes

QC Tests

CCB

Concentration (ppb)
0.1000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

ICB

Concentration (ppb)
0.0500

Failure flag: Z

Error action for manually inserted QC: Stop analysis

CCV

Concentration (ppb)	Low Limit %	High Limit %
5.0000	80.0000	120.0000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

ICV

Concentration (ppb)	Low Limit %	High Limit %
4.0000	94.6000	110.4000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

CRDL

Concentration (ppb)	Low Limit %	High Limit %
0.2000	50.0000	150.0000

Failure flag: Y

Error action for manually inserted QC: Stop analysis

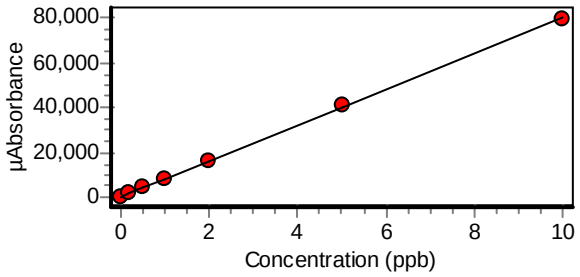
Report Generated By CETAC QuickTrace
Analyst: RawlingsB
Worksheet file: C:\Program Files\QuickTrace\Worksheets\Dec 2011\111215taa.wsz
Date Started: 12/15/2011 10:55:40 AM
Comment:

Results

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt. ODF	Vol.
Cal Blank	STD	12/15/11 11:02:47 am	0.000	254	1.11		1.00 1.00	1.00
Std1	STD	12/15/11 11:05:05 am	0.200	1829	0.20		1.00 1.00	1.00
Std2	STD	12/15/11 11:07:24 am	0.500	4340	0.07		1.00 1.00	1.00
Std3	STD	12/15/11 11:09:43 am	1.000	8387	0.12		1.00 1.00	1.00
Std4	STD	12/15/11 11:12:02 am	2.000	16559	0.82		1.00 1.00	1.00
Std5	STD	12/15/11 11:14:22 am	5.000	41318	0.03		1.00 1.00	1.00
Std6	STD	12/15/11 11:16:43 am	10.000	79672	0.11		1.00 1.00	1.00

Calibration

Equation: A = 471.768 + 7970.939C
R2: 0.99973
SEE: 526.2175
Flags:



ICV 1174741	ICV	12/15/11 11:20:36 am	4.161	33639	0.08		1.00 1.00	1.00
% Recovery 104.02								
ICB	ICB	12/15/11 11:24:23 am	-0.028	250	0.91		1.00 1.00	1.00
CRA 1174750	CRDL	12/15/11 11:26:41 am	0.169	1822	0.15		1.00 1.00	1.00
% Recovery 84.71								

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol.
							ODF	
CCV 1174749	CCV	12/15/11 11:29:01 am	5.038	40628	0.06		1.00	1.00
% Recovery 100.76							1.00	
CCB	CCB	12/15/11 11:31:18 am	-0.028	250	0.85		1.00	1.00
							1.00	
MB 280-99493/1-C	UNK	12/15/11 11:33:36 am	-0.022	293	1.04		1.00	1.00
							1.00	
LCS 280-99493/2-C	UNK	12/15/11 11:35:53 am	4.587	37037	0.20		1.00	1.00
							1.00	
LCSD 280-99937/3-A	UNK	12/15/11 11:38:11 am	4.618	37283	0.06		1.00	1.00
							1.00	
280-23590-J-1-I	UNK	12/15/11 11:40:29 am	-0.020	313	1.33		1.00	1.00
							1.00	
CCV 1174749	CCV	12/15/11 11:42:59 am	4.850	39130	0.05		1.00	1.00
% Recovery 97.00							1.00	
CCB	CCB	12/15/11 11:45:16 am	-0.027	254	0.87		1.00	1.00
							1.00	
MB 280-99940/1-A	UNK	12/15/11 12:13:37 pm	-0.022	294	1.02		1.00	1.00
							1.00	
LCS 280-99940/2-A	UNK	12/15/11 12:15:54 pm	3.905	31598	0.06		1.00	1.00
							1.00	
LCS 280-99940/2-A	UNK	12/15/11 12:21:10 pm	4.833	38993	0.91		1.00	1.00
							1.00	
280-23600-F-1-D	UNK	12/15/11 12:23:29 pm	-0.014	361	0.85		1.00	1.00
							1.00	
280-23655-J-1-C	UNK	12/15/11 12:25:47 pm	-0.032	213	0.49		1.00	1.00
							1.00	
280-23734-L-1-A	UNK	12/15/11 12:28:05 pm	-0.019	319	0.77		1.00	1.00
							1.00	
280-23724-I-1-A	UNK	12/15/11 12:30:24 pm	-0.036	182	1.30		1.00	1.00
							1.00	
280-23606-A-2-D	UNK	12/15/11 12:32:43 pm	-0.024	280	0.77		1.00	1.00
							1.00	
280-23606-A-2-D	UNK	12/15/11 12:35:02 pm	-0.023	289	1.57		1.00	1.00
							1.00	

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol.	ODF
280-23606-A-2-E MS	UNK	12/15/11 12:37:22 pm	4.152	33569	0.09		1.00	1.00	1.00
280-23606-A-2-F MSD	UNK	12/15/11 12:39:41 pm	4.869	39280	0.16		1.00	1.00	1.00
CCV 1174749	CCV	12/15/11 12:42:01 pm	5.050	40725	0.07		1.00	1.00	1.00
% Recovery 101.00									
CCB	CCB	12/15/11 12:44:19 pm	-0.018	327	11.14	s	1.00	1.00	1.00
CCB	CCB	12/15/11 12:50:03 pm	0.010	553	0.39		1.00	1.00	1.00
280-23606-A-6-C	UNK	12/15/11 12:52:23 pm	-0.012	377	0.39		1.00	1.00	1.00
280-23606-A-14-C	UNK	12/15/11 12:54:43 pm	-0.012	373	0.70		1.00	1.00	1.00
280-23606-A-20-C	UNK	12/15/11 12:57:00 pm	-0.018	327	0.49		1.00	1.00	1.00
280-23606-A-24-C	UNK	12/15/11 12:59:17 pm	-0.015	353	0.30		1.00	1.00	1.00
280-23737-C-10-A	UNK	12/15/11 01:01:35 pm	-0.018	327	0.94		1.00	1.00	1.00
280-23566-C-1-C	UNK	12/15/11 01:03:52 pm	-0.019	318	0.68		1.00	1.00	1.00
280-23566-C-2-C	UNK	12/15/11 01:06:10 pm	-0.017	335	1.09		1.00	1.00	1.00
280-23623-A-2-A	UNK	12/15/11 01:08:28 pm	-0.020	313	1.05		1.00	1.00	1.00
280-23623-A-3-A	UNK	12/15/11 01:10:47 pm	-0.020	309	0.62		1.00	1.00	1.00
280-23623-A-4-A	UNK	12/15/11 01:13:06 pm	-0.019	317	0.59		1.00	1.00	1.00
CCV 1174749	CCV	12/15/11 01:15:27 pm	4.981	40176	0.31		1.00	1.00	1.00
% Recovery 99.62									
CCB	CCB	12/15/11 01:17:45 pm	0.012	570	0.53		1.00	1.00	1.00

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol.	ODF
MB 280-99328/1-C	UNK	12/15/11 01:20:02 pm	-0.019	322	0.83		1.00	1.00	1.00
LCS 280-99328/2-C	UNK	12/15/11 01:22:19 pm	5.240	42238	0.04		1.00	1.00	1.00
280-23526-G-1-G	UNK	12/15/11 01:24:36 pm	-0.020	309	0.55		1.00	1.00	1.00
280-23745-F-1-E	UNK	12/15/11 01:26:54 pm	-0.019	319	0.80		1.00	1.00	1.00
280-23745-F-1-F MS	UNK	12/15/11 01:29:12 pm	3.761	30449	0.05		1.00	1.00	1.00
280-23745-F-1-G MSD	UNK	12/15/11 01:31:30 pm	3.289	26689	0.09		1.00	1.00	1.00
CCV 1174749	CCV	12/15/11 01:33:50 pm	5.162	41620	0.10		1.00	1.00	1.00
% Recovery 103.25									
CCB	CCB	12/15/11 01:36:07 pm	0.010	555	0.47		1.00	1.00	1.00
280-23745-F-2-C	UNK	12/15/11 01:38:26 pm	-0.018	330	0.19		1.00	1.00	1.00
280-23745-F-3-C	UNK	12/15/11 01:40:45 pm	-0.019	323	0.63		1.00	1.00	1.00
280-23745-F-4-C	UNK	12/15/11 01:43:04 pm	-0.020	312	0.91		1.00	1.00	1.00
280-23745-F-5-C	UNK	12/15/11 01:45:23 pm	-0.019	317	0.47		1.00	1.00	1.00
280-23745-F-6-C	UNK	12/15/11 01:47:43 pm	-0.020	315	1.10		1.00	1.00	1.00
280-23745-F-7-C	UNK	12/15/11 01:50:04 pm	-0.020	311	0.89		1.00	1.00	1.00
280-23745-F-8-C	UNK	12/15/11 01:52:21 pm	-0.019	318	0.45		1.00	1.00	1.00
280-23745-F-9-C	UNK	12/15/11 01:54:38 pm	-0.019	322	0.24		1.00	1.00	1.00
280-23745-F-10-C	UNK	12/15/11 01:56:56 pm	-0.020	308	0.68		1.00	1.00	1.00

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol.	ODF
280-23745-F-11-C	UNK	12/15/11 01:59:13 pm	-0.018	327	0.58		1.00	1.00	1.00
CCV 1174749	CCV	12/15/11 02:01:33 pm	5.197	41898	0.06		1.00	1.00	1.00
% Recovery 103.94									
CCB	CCB	12/15/11 02:03:51 pm	0.009	540	0.21		1.00	1.00	1.00
MB 280-99928/1-A	UNK	12/15/11 02:06:09 pm	-0.020	314	0.72		1.00	1.00	1.00
LCS 280-99928/2-A	UNK	12/15/11 02:08:28 pm	4.852	39146	0.14		1.00	1.00	1.00
LCSD 280-99928/3-A	UNK	12/15/11 02:10:48 pm	5.083	40988	0.05		1.00	1.00	1.00
280-23695-A-1-B	UNK	12/15/11 02:13:06 pm	5.673	45693	0.15		1.00	1.00	1.00
280-23695-A-2-B	UNK	12/15/11 02:28:26 pm	-0.045	111	1.13		1.00	1.00	1.00
280-23695-A-3-B	UNK	12/15/11 02:30:46 pm	3.762	30456	0.13		1.00	1.00	1.00
280-23695-A-4-B	UNK	12/15/11 02:33:06 pm	22.207	177482	0.06	O	1.00	1.00	1.00
280-23695-A-5-B	UNK	12/15/11 02:37:36 pm	1.483	12296	0.15		1.00	1.00	1.00
280-23695-A-6-B	UNK	12/15/11 02:39:54 pm	0.163	1768	0.89		1.00	1.00	1.00
280-23695-A-7-B	UNK	12/15/11 02:42:11 pm	0.732	6306	0.19		1.00	1.00	1.00
CCV 1174749	CCV	12/15/11 02:44:32 pm	5.098	41109	0.16		1.00	1.00	1.00
% Recovery 101.96									
CCB	CCB	12/15/11 02:46:49 pm	0.010	551	0.43		1.00	1.00	1.00
280-23695-A-8-B	UNK	12/15/11 02:49:08 pm	0.244	2419	0.04		1.00	1.00	1.00
280-23695-A-9-B	UNK	12/15/11 02:52:14 pm	0.713	6157	0.32		1.00	1.00	1.00

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol.	ODF
280-23695-A-10-B	UNK	12/15/11 02:54:32 pm	0.859	7323	0.04		1.00	1.00	1.00
280-23695-A-11-B	UNK	12/15/11 02:57:58 pm	0.359	3331	0.08		1.00	1.00	1.00
280-23695-A-12-B	UNK	12/15/11 03:00:17 pm	7.128	57290	0.50		1.00	1.00	1.00
280-23695-A-13-B	UNK	12/15/11 03:02:36 pm	62.722	500422	0.06	O	1.00	1.00	1.00
280-23695-A-13-B sd@10	UNK	12/15/11 03:11:02 pm	9.252	74216	0.09		1.00	1.00	1.00
280-23695-A-14-B	UNK	12/15/11 03:13:37 pm	-0.001	466	0.76		1.00	1.00	1.00
LB2 280-99857/1-D	UNK	12/15/11 03:15:57 pm	-0.021	308	1.68		1.00	1.00	1.00
LCS 280-99857/2-D	UNK	12/15/11 03:18:16 pm	5.080	40968	0.12		1.00	1.00	1.00
280-23758-B-1-F	UNK	12/15/11 03:20:36 pm	-0.025	276	0.35		1.00	1.00	1.00
CCV 1174749	CCV	12/15/11 03:22:56 pm	5.308	42780	0.06		1.00	1.00	1.00
% Recovery 106.16									
CCB	CCB	12/15/11 03:25:14 pm	0.017	611	0.25		1.00	1.00	1.00
280-23758-A-2-D	UNK	12/15/11 03:27:32 pm	-0.016	345	1.58		1.00	1.00	1.00
280-23758-B-3-D	UNK	12/15/11 03:29:50 pm	-0.015	352	0.70		1.00	1.00	1.00
280-23758-B-4-D	UNK	12/15/11 03:32:09 pm	-0.015	355	0.39		1.00	1.00	1.00
280-23758-A-6-F	UNK	12/15/11 03:34:28 pm	-0.015	351	0.31		1.00	1.00	1.00
280-23758-B-7-F	UNK	12/15/11 03:36:46 pm	-0.015	349	0.20		1.00	1.00	1.00
280-23758-B-8-H	UNK	12/15/11 03:39:04 pm	-0.017	334	0.81		1.00	1.00	1.00

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol.	ODF
280-23758-B-8-I MS	UNK	12/15/11 03:41:23 pm	3.830	31000	0.12		1.00	1.00	1.00
280-23758-B-8-J MSD	UNK	12/15/11 03:43:42 pm	3.226	26187	0.08		1.00	1.00	1.00
LB 280-99861/1-C	UNK	12/15/11 03:46:01 pm	-0.016	347	0.18		1.00	1.00	1.00
LCS 280-99861/2-C	UNK	12/15/11 03:48:21 pm	5.030	40569	0.24		1.00	1.00	1.00
CCV 1174749	CCV	12/15/11 03:50:41 pm	5.184	41790	0.02		1.00	1.00	1.00
% Recovery 103.67									
CCB	CCB	12/15/11 03:52:58 pm	0.014	586	0.27		1.00	1.00	1.00
280-23758-B-5-F	UNK	12/15/11 03:55:18 pm	-0.009	403	0.12		1.00	1.00	1.00
280-23758-B-5-G MS	UNK	12/15/11 03:57:38 pm	4.726	38142	0.22		1.00	1.00	1.00
280-23758-B-5-H MSD	UNK	12/15/11 03:59:56 pm	3.816	30889	0.05		1.00	1.00	1.00
21630-a-1-prep @100	UNK	12/15/11 04:02:14 pm	1.225	10236	0.11		1.00	1.00	1.00
21630-A-1 sd@100	UNK	12/15/11 04:04:33 pm	1.450	12027	0.22		1.00	1.00	1.00
280-23695-A-4-B sd@20	UNK	12/15/11 04:06:51 pm	1.552	12843	0.16		1.00	1.00	1.00
CCV 1174749	CCV	12/15/11 04:09:11 pm	5.149	41510	0.17		1.00	1.00	1.00
% Recovery 102.97									
CCB	CCB	12/15/11 04:11:29 pm	0.019	626	0.38		1.00	1.00	1.00

Analysis Parameters

Instrument M-7500 Mercury Analyzer

Conditions

Gas flow (mL/min)	Sample Uptake (s)	Rinse (s)	Read delay (s)	Replicates (#)	Replicate time (s)	Pump speed (%)	Wavelength (nm)
100	40.00	90.00	63.00	4	1.50	50	253.65

Instrumental Zero

Zero before first sample: No

Zero periodically: Yes

Before each calibration.

Baseline Correction

#1 Start time (s)	#1 End time (s)	#2 Start time (s)	#2 End time (s)
20.00	24.00		

Standby Mode

Enabled: Yes

Standby Options: pump slow

Autodilution

Enabled: No

Condition:

Tube # range:

If no autodilution tubes remaining

Calibration

Settings

Algorithm	Through blank	Weighted fit	Cal. Type	Racalibration rate	Reslope rate	Reslope standard
Linear	No	No	Normal	0	0	N/A

Limits

Calibration slope		Reslope		Coeff. of Determination
Lower (%)	Upper (%)	Lower (%)	Upper (%)	
20	150	75	125	0.99500

Error action: Flag and continue

QC

GLP Override: Yes

QC Tests

CCB

Concentration (ppb)
0.1000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

ICB

Concentration (ppb)
0.0500

Failure flag: Z

Error action for manually inserted QC: Stop analysis

CCV

Concentration (ppb)	Low Limit %	High Limit %
5.0000	80.0000	120.0000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

ICV

Concentration (ppb)	Low Limit %	High Limit %
4.0000	94.6000	110.4000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

CRDL

Concentration (ppb)	Low Limit %	High Limit %
0.2000	50.0000	150.0000

Failure flag: Y

Error action for manually inserted QC: Stop analysis

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Batch Number: 99395 Batch Start Date: 12/12/11 14:00 Batch Analyst: Mooney, Joseph C

Batch Method: 3010A Batch End Date: 12/12/11 19:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	ICP SPK 2A 00036	ICP SPK 3A 00038	
MB 280-99395/1		3010A, 6010B			50 mL	50 mL			
LCS 280-99395/2		3010A, 6010B			50 mL	50 mL	0.5 mL	0.5 mL	
280-23566-C-1	B3VM0114AA	3010A, 6010B	T	<2	50 mL	50 mL			
280-23566-C-2	120711AE	3010A, 6010B	T	<2	50 mL	50 mL			

Batch Notes	
Lot # of hydrochloric acid	K28022
Lot # of Nitric Acid	K23022
Hot Block ID number	05 C-3
Oven, Bath or Block Temperature 1	94 Degrees C
Oven, Bath or Block Temperature 2	94 Degrees C
Pipette ID	MET-007
ID number of the thermometer	MP4
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	94 Degrees C
Uncorrected Temperature 2	94 Degrees C
Vendor of Reagent used	JTBAKER

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Batch Number: 101476 Batch Start Date: 12/28/11 14:00 Batch Analyst: Mooney, Joseph C

Batch Method: 3005A Batch End Date: 12/28/11 19:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	ICP SPK 2A 00039	ICP SPK 3A 00040	
MB 280-101476/1		3005A, 6010B			50 mL	50 mL			
LCS 280-101476/2		3005A, 6010B			50 mL	50 mL	0.5 mL	0.5 mL	
280-23566-D-1	B3VM0114AA	3005A, 6010B	D	<2	50 mL	50 mL			
280-23566-D-1 MS	B3VM0114AA	3005A, 6010B	D	<2	50 mL	50 mL	0.5 mL	0.5 mL	
280-23566-D-1 MSD	B3VM0114AA	3005A, 6010B	D	<2	50 mL	50 mL	0.5 mL	0.5 mL	
280-23566-D-2	120711AE	3005A, 6010B	D	<2	50 mL	50 mL			

Batch Notes	
Lot # of hydrochloric acid	K28022
Lot # of Nitric Acid	K23022
Hood ID or number	07
Hot Block ID number	09 B-2
Oven, Bath or Block Temperature 1	93
Oven, Bath or Block Temperature 2	93
Pipette ID	MET-007
ID number of the thermometer	MP7
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	93 Celsius
Uncorrected Temperature 2	93 Celsius

Basis	Basis Description
D	Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Batch Number: 101478 Batch Start Date: 12/28/11 14:00 Batch Analyst: Mooney, Joseph C

Batch Method: 3005A Batch End Date: 12/28/11 19:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS CALSTD-1 00058	MS CALSTD-2 00058	
MB 280-101478/1		3005A, 6020			50 mL	50 mL			
LCS 280-101478/2		3005A, 6020			50 mL	50 mL	0.1 mL	0.1 mL	
280-23566-D-1	B3VM0114AA	3005A, 6020	D	<2	50 mL	50 mL			
280-23566-D-2	120711AE	3005A, 6020	D	<2	50 mL	50 mL			
280-23566-D-2 MS	120711AE	3005A, 6020	D	<2	50 mL	50 mL	0.1 mL	0.1 mL	
280-23566-D-2 MSD	120711AE	3005A, 6020	D	<2	50 mL	50 mL	0.1 mL	0.1 mL	

Batch Notes	
Lot # of Nitric Acid	K23022
Hood ID or number	08
Hot Block ID number	06 C-3
Oven, Bath or Block Temperature 1	93
Oven, Bath or Block Temperature 2	93
Pipette ID	MET-015
ID number of the thermometer	MP5
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	93 Celsius
Uncorrected Temperature 2	93 Celsius

Basis	Basis Description
D	Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Batch Number: 101490 Batch Start Date: 12/28/11 14:00 Batch Analyst: Mooney, Joseph C

Batch Method: 3020A Batch End Date: 12/28/11 19:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS CALSTD-1 00058	MS CALSTD-2 00058	
MB 280-101490/1		3020A, 6020			50 mL	50 mL			
LCS 280-101490/2		3020A, 6020			50 mL	50 mL	0.1 mL	0.1 mL	
280-23566-C-1	B3VM0114AA	3020A, 6020	T	<2	50 mL	50 mL			
280-23566-C-2	120711AE	3020A, 6020	T	<2	50 mL	50 mL			

Batch Notes	
Lot # of Nitric Acid	K23022
Hot Block ID number	03 E-5
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	MET-015
ID number of the thermometer	MP3
Digestion Tube/Cup Lot #	1107181
Vendor of Reagent used	JTBAKER

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Batch Number: 99589 Batch Start Date: 12/12/11 11:45 Batch Analyst: Rawlings, Brendon L

Batch Method: 7470A Batch End Date: 12/12/11 13:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	Hg Daily Spk 00437		
MB 280-99589/1		7470A, 7470A		<2	30 mL	30 mL			
LCS 280-99589/2		7470A, 7470A		<2	30 mL	30 mL	1.5 mL		
280-23566-C-1	B3VM0114AA	7470A, 7470A	D	<2	30 mL	30 mL			
280-23566-C-2	120711AE	7470A, 7470A	D	<2	30 mL	30 mL			

Batch Notes	
Hydroxylamine Hydrochloride Lot	ZT0139
Batch Comment	-
Sulfuric Acid Lot Number	K13040
Lot # of hydrochloric acid	K29026
Lot # of Nitric Acid	K23022
Hood ID or number	HOOD4
Hot Block ID number	14
Potassium Persulfate Lot Number	113845
Potassium Permanganate Lot Number	K14626
NaCL Lot #	K34598
Oven, Bath or Block Temperature 1	94 Celsius
Oven, Bath or Block Temperature 2	95 Celsius
Pipette ID	MET53
Repittetor Volume Check	-
Stannous Chloride Lot Number	K21597
SOP Number	DVMT0017
Temperature	94
ID number of the thermometer	HG-3
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	94 e3 Celsius
Uncorrected Temperature 2	95 Celsius

Basis	Basis Description
D	Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-23566-1

SDG No.:

Batch Number: 99940 Batch Start Date: 12/14/11 14:20 Batch Analyst: Rawlings, Brendon L

Batch Method: 7470A Batch End Date: 12/14/11 16:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	Hg Daily Spk 00439		
MB 280-99940/1		7470A, 7470A		<2	30 mL	30 mL			
LCS 280-99940/2		7470A, 7470A		<2	30 mL	30 mL	1.5 mL		
280-23566-C-1	B3VM0114AA	7470A, 7470A	T	<2	30 mL	30 mL			
280-23566-C-2	120711AE	7470A, 7470A	T	<2	30 mL	30 mL			

Batch Notes	
Hydroxylamine Hydrochloride Lot	ZT0139
Batch Comment	-
Sulfuric Acid Lot Number	K13040
Lot # of hydrochloric acid	K29026
Lot # of Nitric Acid	K23022
Hood ID or number	HOOD3
Hot Block ID number	13
Potassium Persulfate Lot Number	113845
Potassium Permanganate Lot Number	K14626
NaCL Lot #	K34598
Oven, Bath or Block Temperature 1	95 Celsius
Oven, Bath or Block Temperature 2	95 Celsius
Pipette ID	MET53
Repittetor Volume Check	-
Stannous Chloride Lot Number	K21597
SOP Number	DVMT0017
Temperature	95
ID number of the thermometer	HG-2
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	95 e2 Celsius
Uncorrected Temperature 2	95 Celsius

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: FPM Remediations Inc

Job Number: 280-23566-1

Login Number: 23566

List Source: TestAmerica Denver

List Number: 1

Creator: Cofoid, Stephen T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Sample -001 on COC as B3VM0114AA; labeled B03VM0114AA
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	