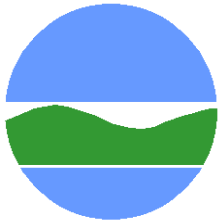




Imagine the result



**New York State Department of
Environmental Conservation**

Site Number 7-54-012

**Tioga Castings Site
Periodic Review Report**

March 2014



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Principal Geologist / Vice President



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Staff Geologist

**Tioga Castings Site Periodic
Review Report**

March 2014

Site Number 7-54-012

Prepared for:
New York State Department of
Environmental Conservation

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Date
March 2014

*Malcolm Pirnie, Inc. was acquired by
ARCADIS in July 2009.*

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1 Executive Summary

The New York State Department of Environmental Conservation (NYSDEC) has issued a Work Assignment (# D007618-12) to Malcolm Pirnie, Inc. for Operation, Maintenance, and Monitoring at the Tioga Castings Site (NYSDEC site number 7-54-012) in New York State (the Site). This Periodic Review Report (PRR) documents the findings and observations associated with the monitoring program for the Site.

The Site was found to have been contaminated with cadmium, chromium, and lead during operations as a cupola-type foundry for the production of gray iron castings between 1945 and the late 1980s. During this time, operations included smelting of pig iron, scrap iron (including engine blocks), coke, limestone and the use of phenol-formaldehyde treated sand to cast the iron. The process produced wastes which included sand molds, bentonite, fly ash, cast iron grindings, and fine baghouse ash/cupola dust. These dusts were reportedly disposed at an off-site landfill until March 1979, at which time the facility operated an on-site landfill for their foundry wastes. In 1988, the facility closed and many casting materials were left on-site, including the materials left at the facility landfill, also on-site. In 1989, a fire inside the facility destroyed most of the foundry. Two Interim Remedial Measures (IRMs) were carried out to address potential physical/chemical hazards in 1989 and 1991.

A Record of Decision (ROD) was signed in 1995 for the Site (NYSDEC 1995). The selected remedy was developed to consolidate the waste materials still on-site, cover the on-site landfill, clean and fill an on-site septic tank, establish institutional controls to limit future use, and establish a groundwater monitoring program.

At this time, the remedial actions have performed as expected and while continued monitoring should be conducted, no changes to the current Site Management are recommended.

2 Site Overview

2.1 Location and Features

The Tioga Castings site is located at Foundry Street, Owego, Tioga County, New York (Figure 2-1). The Site is approximately 1 acre in total and includes the on-site landfill area (Figure 2-2). The Site is currently zoned industrial and is listed as a Class 4 site on the NYSDEC Registry of Inactive Hazardous Waste Sites. Remedial activities have been completed for the former foundry facility area and the only remaining feature for monitoring is the landfill area.

2.2 Site History and Remediation

The Site was formerly owned by Tioga Castings between 1945 and 1988. The facility operated a cupola-type foundry for the production of gray iron castings. Operations at the facility included smelting of pig iron, scrap iron (including engine blocks), coke, limestone and the use of phenol-formaldehyde treated sand to cast the iron. The process produced solid wastes which included sand molds, bentonite, fly ash, cast iron grindings, and fine baghouse ash/cupola dust. These wastes were reportedly disposed of at an off-site landfill until March 1979. The facility then operated an on-site landfill for the disposal of its foundry wastes. The facility ceased operations in 1988 and left the waste materials in the landfill area as well as many types of foundry materials including:

- Sand casts
- Various drums
- Multiple one-ton plastic lined bags of cupola dust

In July 1989, the facility had a fire which destroyed most of the foundry structure and remaining structures were determined to be unsafe. Two Interim Remedial Measures (IRMs) were carried out to address potential physical/chemical hazards:

- In fall of 1989, a perimeter fence was erected to limit access to the property and drums that were left on-site were removed from the Site and disposed of properly.

- A temporary cover was placed over the landfill in August 1991 in order to minimize the potential for erosion (wind, surface water) of the landfill materials.

A Record of Decision (ROD) was signed in 1995 for the Site (NYSDEC 1995). The selected remedy included the following items:

- Consolidation of on-site and off-site soil and waste piles that contained concentrations greater than the cleanup goals for the Site in the on-site landfill
- Maintain deed restrictions to prevent Site development in areas of the Site where contaminated material was present
- Placement of a low permeability cover over the on-site landfill
- Maintain a fence around the on-site landfill to limit site access
- Cleaning and filling an on-site septic tank with cement
- Operation and maintenance of the remedy
- Groundwater monitoring
- Site-specific cleanup goals for cadmium, chromium, and lead were established (Table 2-1).

Table 2-1
Site-Specific Cleanup Goals

Analyte	Soil	Groundwater
Cadmium	10 ppm	10 ppb
Chromium	50 ppm	50 ppb
Lead	250 ppm (0 to 12 feet) 500 ppm (greater than 12 feet)	25 ppb

As part of the selected remedy, the landfill closure was completed in 1997. Asbestos-containing materials in piles of debris and in a building structure were identified at the Site and removed in 2001.

In June 2007, a NYSDEC-approved Work Plan, developed by Malcolm Pirnie was implemented with Site-specific operation and maintenance (O&M) and groundwater monitoring procedures. NYSDEC requested in July 2008 that an investigation be conducted to evaluate if subsurface soil contained concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), or metals greater than the respective NYSDEC standards or the defined site-specific cleanup criteria (Malcolm Pirnie 2008). Also in 2008, NYSDEC requested that three new groundwater monitoring wells be installed to provide additional information on groundwater quality.

In April 2009, NYSDEC collected groundwater samples from the monitoring well network for analysis of VOCs, SVOCs, and metals to provide sufficient information on groundwater quality to support reclassification of the overall Site. In addition, in July 2009, NYSDEC collected surface soil samples to evaluate the potential for surface soil to be an exposure route to site-related contaminants.

A Site Management Plan (SMP) was prepared and accepted by NYSDEC in 2010 (Malcolm Pirnie, Inc. 2010). All O&M and monitoring activities have been conducted according to this SMP. Currently, an updated SMP is in development.

3 Remedy Performance, Effectiveness, and Protectiveness

The remediation goals selected for this Site, according to the ROD (NYSDEC 1995) are as follows:

- Prevent direct contact exposure (dermal absorption, inhalation and incidental ingestion) with waste piles/soils that have concentrations above the cleanup goals.
- Prevent or reduce the transport of contamination off site via surface runoff from areas where the surface material is contaminated.
- Prevent or greatly reduce the transport of contamination off site via surface runoff from areas where surface material is contaminated.

The selected remedy for the Site was successfully incorporated following the guidance provided in each of the ROD documents (NYSDEC 1995).

Based on the current Site Management, including inspections, groundwater monitoring, and the Environmental Notice that is in place for the Site, it appears that the Selected Remedies specified in the ROD have withstood the Site conditions (weather, etc.) and have been performing as they were intended.

The following sections provide detail to the Operations/Maintenance and Monitoring for the Site.

4 Operation and Maintenance

O&M activities were performed at the following times:

- May 17, 2013 (by ARCADIS)
- October 14, 2013 (by ARCADIS)

The O&M activities included inspection of the landfill cap and security (Figure 2-2) which are the Engineering Controls that have been established at the Site. A Post-closure O&M Checklist (Appendix A) was used to document the findings from each inspection during 2013.

In addition to the inspection checklist, a photolog was kept during the May 17, 2013 visit and is included in Appendix B.

4.1 Landfill Cap

The landfill cap contains the former disposal area for the facility casting sands and other wastes. The purpose of the cap was to prevent human and ecological exposure to contaminated materials and minimize surface water from entering the landfill area.

A visual inspection of the landfill cap was performed during each visit to the Site to assess the landfill for burrowing rodents, erosion, woody vegetation, and settlement. The condition of the landfill cap was found in acceptable condition

4.2 Landfill Security

The security for the landfill consists of a perimeter fence with an entry gate and locks to limit access to the landfill and prevent tampering with the cap.

The landfill perimeter fence, entry gate, and locks were observed for proper operation and signs of deterioration. No issues were observed with the integrity of these components. In addition, the Foundry Street entry gate warning sign was in place and in acceptable condition.

5 Groundwater Monitoring Program

Groundwater monitoring wells were sampled on the following date:

- October 14, 2013 (by ARCADIS)

The well sampling was conducted to provide information on groundwater quality, monitor potential contaminant migration in the groundwater at the site, and assess hydrogeologic site conditions, including groundwater flow direction. Groundwater monitoring well locations are shown on Figure 2-2.

5.1 Groundwater Monitoring Well Inspection

During the Site visit, the integrity of each well was inspected and the results recorded on a groundwater monitoring well inspection form (Appendix C). As indicated in the inspection form, the monitoring wells were in acceptable condition and no significant problems were reported.

5.2 Water Level Survey

Prior to collecting groundwater samples, water levels were measured to the nearest hundredth of a foot. A summary of these data are presented on the groundwater level data forms in Appendix D.

Table 5-1 summarizes the groundwater elevations measured during the October 2013 sampling event. A potentiometric surface map was created based on the October 2013 groundwater level measurements and is presented on Figure 5-1. As shown on Figure 5-1, groundwater flow near the landfill area is generally toward the east. Figure 5-1 also shows that the water table in the vicinity of the former foundry is generally flat.

5.3 Groundwater Sampling

Groundwater samples were collected from nine groundwater monitoring wells (MW-1R, MW-2R, MW-3, MW-3D, MW-4, MW-5, MW-6, MW-7 and MW-8) using low-flow groundwater purging and sampling procedures. Due to insufficient water in

groundwater monitoring well MW-3, no samples were collected from this well. The groundwater monitoring wells were sampled during October 14, 2013 visit to the Site.

Prior to collecting groundwater samples, pH, conductivity, turbidity, dissolved oxygen (DO), temperature, salinity, total dissolved solids (TDS), and oxidation-reduction potential (REDOX) were measured using a Horiba U-52 water quality meter and recorded on groundwater sampling purge logs. Groundwater sampling purge logs are presented in Appendix E.

Groundwater samples were sent to Test America – Buffalo by chain-of-custody procedures and analyzed for Target Analyte List (TAL) metals by USEPA Method 6010B. Analytical data packages are provided in Appendix F.

5.4 Groundwater Sampling Results

Groundwater sample results from the 2013 Site visit are summarized in Table 5-2 with available historical analytical results. Results from the 2013 monitoring indicate that sodium was detected in groundwater samples MW-1R (28,300 ug/L), MW-2 (74,200 ug/L), MW-5 (20,500 ug/L), MW-6 (22,400 ug/L), and MW-7 (22,100 ug/L) at concentrations above the corresponding NYSDEC Class GA Standard of 20,000 ug/L. Table 5-2 shows that the concentrations of sodium in the sample from the wells, are within the range of sodium results reported in samples from the monitoring well network during previous sampling events. The elevated concentrations of sodium may be related to the local application of road de-icing agents.

Table 5-2 shows that the iron concentration in the samples from MW-1R (1,000 ug/L), MW-2 (3,900 ug/L), MW-3D (390 ug/L), MW-6 (330 ug/L), and MW-7 (660 ug/L) exceed the NYSEC Class GA Standard of 300 ug/L. As shown in Table 5-2, all of these wells have a history of iron exceedances. Manganese concentrations in the samples from MW-2 (2,800 ug/L), and MW-7 (340 ug/L) exceed the NYSDEC Class GA Standard of 300 ug/L. Table 5-2 also highlights that MW-7 has a history of manganese exceedances, but MW-2 does not. No other metals were detected at concentrations greater than the applicable NYSDEC Class GA Standards.

6 Overall PRR Conclusions and Recommendations

6.1 Conclusions

The landfill cap and the site security measures are in acceptable condition and operating as intended.

The groundwater samples collected from groundwater monitoring wells did indicate sodium, iron, and manganese are present at concentrations greater than their respective NYSDEC Class GA Standards. Samples from these wells historically have had exceedances for these analytes and continued monitoring is necessary to verify that this is normal for the Site, or if an alternative action is required.

Based on the concentrations of metals in groundwater, annual groundwater monitoring should continue to be conducted to evaluate the impacts to groundwater quality over time.

A detailed Site Management Plan (SMP) is in development to document the required inspections and requirements for this Site to provide to current and future owners of the property.

7. Summary and Certification

O&M activities were conducted on May 17, 2013 and October 14, 2013 with groundwater monitoring samples collected during the October 14, 2013 visit. The landfill cap and security measures at the Site were inspected and appear to be unchanged and performing as intended. There does not appear to have been an event or change in use that would impair the ability of these controls and no evidence suggesting a failure to comply with the Site Management Plan. The status of the engineering controls (landfill cap) at this Site are performing as planned and are in a condition that fulfills the requirements of the Site remedial program.

Groundwater samples contained concentrations of select metals greater than the corresponding NYSDEC Standards at six sampling locations. However, the detections are in areas where these select metals have historically exceeded NYSDEC Standards historically and do not appear to be of immediate concern at this time. However, continued monitoring is recommended to assess long-term changes.

The completed NYSDEC certification is provided as Appendix F.

8. References

Malcolm Pirnie, Inc. 2008. Investigation Report Tioga Castings Site. Site Number 7-54-012. New York State Department of Environmental Conservation Work Assignment D004443-8. August.

Malcolm Pirnie, Inc. 2010. Site Management Plan Tioga Castings Site. Site Number 7-54-012. New York State Department of Environmental Conservation Work Assignment D004443-8. April.

New York State Department of Environmental Conservation (NYSDEC). 1997. Record of Decision, Tioga Castings Site, Village of Owego, Tioga County. Site Number 7-54-012. March.

Tables

Table 5-1
Groundwater Elevation Data Summary
Tioga Casting
Owego, New York
NYSDEC Site No. 7-54-012

Well	Measuring Point Elevation (feet)	11/24/2008		5/18/2010		10/28/2010		2/28/2011		7/19/2012		10/14/2013	
		DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)
MW-1R	813.82 (2)	20.90		17.03		19.77	794.05	19.99	793.83	21.99	791.83	21.02	792.80
MW-2	807.68 (1)	14.56	793.12	10.69	796.99	13.59	794.09	13.45	794.23	15.74	791.94	14.68	793.00
MW-3	812.61 (2)	17.51	795.10	14.35	798.26	16.74	795.87	16.68	795.93	18.15	794.46	17.79	794.82
MW-3D	812.42 (2)	17.52		14.17		16.58	795.84	16.47	795.95	18.56	793.86	17.69	794.73
MW-4	806.33 (1)	10.87	795.46	7.81	798.52	10.04	796.29	9.91	796.42	11.71	794.62	11.11	795.22
MW-5	803.89 (1)	10.74	793.15	6.60	797.29	9.72	794.17	9.25	794.64	12.01	791.88	11.80	792.09
MW-6	815.53 (3)	10.74		7.60		10.72		19.67	795.86	21.63	793.90	20.60	794.93
MW-7	807.12 (2)	14.17		10.30		13.07	794.05	13.14	793.98	15.29	791.83	14.30	792.82
MW-8	813.73 (2)	20.98		17.05		20.04	793.69	20.00	793.73	22.18	791.55	21.12	792.61

(1) - Source: Monitoring Plan: Tioga Casting (NYSDEC, April 25, 2005)

(2) - From Malcolm Pirnie, Inc. level survey performed 10/28/2010

(3) - From Malcolm Pirnie, Inc. level survey performed 2/28/2011

Table 5-2
Summary of Groundwater Sample Results - Metals
Tioga Castings Site
Owego, New York
NYSDEC Site Number 7-54-012

Well Date Units	NYSDEC Class GA Standards	MW-1R 4/13/2009 ug/L	MW-1R 3/18/2010 ug/L	MW-1R 10/28/2010 ug/L	MW-1R 2/28/2011 ug/L	MW-1R 7/19/2012 ug/L	MW-1R 10/14/2013 ug/L
Aluminum		1050	41.0 BE	20.8 J	37.7 J	200 U	930
Antimony	3	6.7 U	6.8 U	8.0 U	15.0 U	20.0 U	20.0 U
Arsenic	25	3.0 U	5.6 U	4.2 U	15.0 U	10.0 U	10.0 U
Barium	1000	59.8 B	51.9 BE	50.7	48.7	57.0	58.0
Beryllium	3*	0.5 U	0.2 BE	0.7 U	5.0 U	2.0 U	2.0 U
Cadmium	5 [10]	0.3 U	0.6 BE	0.5 U	5.0 U	1.0 U	1.0 U
Calcium		61200	63700	58900	58700	67500	58700
Chromium	50 [50]	10.4 B	0.9 U	1.1 U	5.0 U	2.1 J B	1.9 J
Cobalt		3.8 U	0.6 U	5.8 U	5.0 U	4.0 U	4.0 U
Copper	200	181	1.3 U	2.3 J	10.0 U	10.0 U	10.0 U
Iron	300	1410	48.9 BE	43.7 J	86.4 J	50.0 U	1000
Lead	25 [25]	1.4 U	3.0 U	4.4 J	15.0 U	5.0 U	5.0 U
Magnesium		11500	12100	10900	11500	12700	11900
Manganese	300	106	16.5	3.9 J	11.3	0.73 J B	61.0
Mercury	0.7	NA	0.1 U	0.1 U	0.2 U	0.20 U	0.2 U
Nickel	100	6.9 B	1.4 BE	4.2 U	5.0 U	10.0 U	10 U
Potassium		2070 B	1640 BE	1640	1570	1900	2000
Selenium	10	11.4 U	8.7 U	4.8 U	38.0 U	15.0 U	15.0 U
Silver	50	2.2 U	1.2 U	1.5 U	5.0 U	2.20 J	3.0 U
Sodium	20000	25600	25100	23300	23300	32100	28300
Thallium	0.5*	3.0 U	10.2 U	2.4 U	15.0 U	20.0 U	20.0 U
Titanium		8.8 B	NA	NA	NA	NA	NA
Vanadium		4.7 U	1.1 U	6.1 U	5.0 U	5.0 U	1.5 J
Zinc	2000*	13.5 U	4.1 BE	21.1	25.0 U	2.0 J	5.2 J

* - NYSDEC Guidance Value.

1 - Duplicate sample from MW-3D

2- Duplicate sample from MW-6

NA - Not analyzed.

U - Analyte not detected.

J- Greater than the MDL but below the CRDL

B - Greater than MDL but less than RL.

MDL - Method detection limit.

RL - Reporting limit.

E - Estimated value.

[25] - Site-specific cleanup goal.

Table 5-2
Summary of Groundwater Sample Results - Metals
Tioga Castings Site
Owego, New York
NYSDEC Site Number 7-54-012

Well Date Units	NYSDEC Class GA Standards	MW-2 8/2/2007 ug/L	MW-2 7/17/2008 ug/L	MW-2 4/13/2009 ug/L	MW-2 3/19/2010 ug/L	MW-2 10/28/2010 ug/L	MW-2 2/28/2011 ug/L	MW-2 7/19/2012 ug/L	MW-2 10/14/2013 ug/L
Aluminum		60.2 B	23.6 U	632	57.8 BE	9.2 J	250.0 U	200.0 U	2500
Antimony	3	5.6 U	5.5 U	6.7 U	6.8 U	8.0 U	15.0 U	200.0 U	20.0 U
Arsenic	25	4.2 U	3.7 U	3.0 U	5.6 U	4.2 U	15.0 U	10.0 U	10.0 U
Barium	1000	61.6 B	54.3 B	102	48.8 BE	78.9	45.5	78.0	210
Beryllium	3*	0.40 B	0.3 U	0.5 U	0.2 U	0.7 U	5.0 U	2.0 U	2.0 U
Cadmium	5 [10]	0.36 U	0.3 U	0.3 U	0.3 BE	0.5 U	5.0 U	1.0 U	1.3
Calcium		54500 E	48800	50900	51400	62900	42400	58700	81800
Chromium	50 [50]	0.84 U	0.9 U	5.8 B	0.9 U	1.1 U	5.0 U	1.7 J B	6.5
Cobalt		1.1 B	1.1 U	3.8 U	0.6 U	5.8 U	5.0 U	4.0 U	1.5 J
Copper	200	1.3 U	1.3 U	105	1.3 U	2.0 U	10.0 U	10.0 U	7.3 J
Iron	300	19.3 U	19 U	532	28.6 BE	29.4 J	125.0 U	19.0 J	3900
Lead	25 [25]	2.9 U	2.9 U	1.4 U	3.0 U	3.3 J	15.0 U	5.0 U	5.0 U
Magnesium		8650 E	7670	8320	8290	10100	6960	9500	14200
Manganese	300	2.8 B	8.2 B	211	54.2	5.0 J	3.9 J	8.2 B	2800
Mercury	0.7	0.12 U	0.1 U	NA	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U
Nickel	100	1.2 U	1.0 U	7.3 B	1.3 U	4.2 U	5.0 U	10.0 U	8.0 J
Potassium		4710 BE	3900 B	4550	4550 BE	5830	4450	5700	7400
Selenium	10	6.1 U	6.1 U	11.4 U	8.7 U	4.8 U	38.0 U	15.0 U	15.0 U
Silver	50	1.7 B	1.3 U	2.2 U	1.2 U	1.5 U	5.0 U	3.0 U	3.0 U
Sodium	20000	36100 E	18700	25200	24000	35000	22000	46500	74200
Thallium	0.5*	7.0 U	5.9 U	3.0 U	10.2 U	2.4 U	15.0 U	20.0 U	20.0 U
Titanium		NA	NA	5.0 U	NA	NA	NA	NA	NA
Vanadium		0.80 B	1.0 U	4.7 U	1.1 U	6.1 U	5.0 U	5.0 U	3.9 J
Zinc	2000*	3.6 U	3.6 U	13.5 U	2.3 BE	12.9 J	25.0 U	1.5 J	19.0

* - NYSDEC Guidance Value.

1 - Duplicate sample from MW-3D

2- Duplicate sample from MW-6

NA - Not analyzed.

U - Analyte not detected.

J- Greater than the MDL but below the CRDL

B - Greater than MDL but less than RL.

MDL - Method detection limit.

RL - Reporting limit.

E - Estimated value.

[25] - Site-specific cleanup goal.

Table 5-2
Summary of Groundwater Sample Results - Metals
Tioga Castings Site
Owego, New York
NYSDEC Site Number 7-54-012

Well Date Units	NYSDEC Class GA Standards	MW-3 4/13/2009 ug/L	MW-3 3/19/2010 ug/L	MW-3 10/28/2010 ug/L	MW-3 2/28/2011 ug/L
Aluminum		195.0	39.8 U	17.7 J	250.0 U
Antimony	3	6.7 U	6.8 U	8.0 U	15.0 U
Arsenic	25	3.0 U	5.6 U	4.2 U	15.0 U
Barium	1000	38.3 B	46.5 BE	57.1	44.6
Beryllium	3*	0.5 U	0.2 U	0.7 U	5.0 U
Cadmium	5 [10]	0.3 U	0.3 U	0.5 U	5.0 U
Calcium		42900	51300	54400	49800
Chromium	50 [50]	3.5 B	0.9 U	1.1 U	5.0 U
Cobalt		3.8 U	0.6 U	5.8 U	5.0 U
Copper	200	71.3	1.3 U	2.0 U	10.0 U
Iron	300	144 B	19.3 U	55.6	125.0 U
Lead	25 [25]	1.5 B	3.0 U	5.1 J	15.0 U
Magnesium		7450	9270	9550	9300
Manganese	300	14.0 B	0.3 BE	3.0 J	8.0 U
Mercury	0.7	NA	0.1 U	0.1 U	0.2 U
Nickel	100	4.2 B	1.3 U	4.2 U	5.0 U
Potassium		1430 B	1890 BE	1480	1230
Selenium	10	11.4 U	8.7 U	4.8 U	38.0 U
Silver	50	2.2 U	1.2 U	1.5 U	5.0 U
Sodium	20000	17000	16900	17000	15200
Thallium	0.5*	3.0 U	10.2 U	2.4 U	15.0 U
Titanium		5.0 U	NA	NA	NA
Vanadium		4.7 U	1.1 U	6.1 U	5.0 U
Zinc	2000*	13.5 U	1.5 U	44.3	25.0 U

* - NYSDEC Guidance Value.

1 - Duplicate sample from MW-3D

2- Duplicate sample from MW-6

NA - Not analyzed.

U - Analyte not detected.

J- Greater than the MDL but below the CRDL

B - Greater than MDL but less than RL.

MDL - Method detection limit.

RL - Reporting limit.

E - Estimated value.

[25] - Site-specific cleanup goal.

Table 5-2
Summary of Groundwater Sample Results - Metals
Tioga Castings Site
Owego, New York
NYSDEC Site Number 7-54-012

Well Date Units	NYSDEC Class GA Standards	MW-3D 4/13/2009 ug/L	MW-3D 3/18/2010 ug/L	MW-3D 10/28/2010 ug/L	MW-3D 2/28/2011 ug/L	MW-3D 7/19/2012 ug/L	MW-X ⁽¹⁾ 7/19/2012 ug/L	MW-3D 10/14/2013 ug/L
Aluminum		668	39.8 U	11.7 J	250.0 U	200.0 U	70.0 J	310
Antimony	3	6.7 U	6.8 U	8.0 U	15.0 U	20.0 U	20.0 U	20.0 U
Arsenic	25	3.0 U	5.6 U	4.2 U	15.0 U	10.0 U	10.0 U	10.0 U
Barium	1000	39.2 B	45.3 BE	56.7	43.6	51.0	51.0	46.0
Beryllium	3*	0.5 U	0.2 U	0.7 U	5.0 U	2.0 U	2.0 U	2.0 U
Cadmium	5 [10]	0.3 U	0.3 U	0.5 U	5.0 U	1.0 U	1.0 U	1.0 U
Calcium		42300	50000	54000	48600	55200	55100	45800
Chromium	50 [50]	3.8 B	0.9 U	1.1 U	5.0 U	1.6 J B	2.1 J B	4.0 U
Cobalt		3.8 U	0.6 U	5.8 U	5.0 U	4.0 U	4.0 U	4.0 U
Copper	200	56.6	1.3 U	2.3 J	10.0 U	10.0 U	10.0 U	10.0 U
Iron	300	558	19.3 U	52.9	24.4 J	26.0 J	61.0	390
Lead	25 [25]	1.4 U	3.0 U	4.6 J	15.0 U	5.0 U	5.0 U	5.0 U
Magnesium		7490	9120	9680	9120	10000	10100	8800
Manganese	300	40.3 B	0.9 BE	2.2 J	1.2 J	2.4 J B	3.1 B	21.0
Mercury	0.7	NA	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	3.9 B	1.3 U	4.2 U	5.0 U	10.0 U	10.0 U	10.0 U
Potassium		1550 B	1610 BE	1490	1260	1500	1500	1400
Selenium	10	11.4 U	8.7 U	4.8 U	38.0 U	15.0 U	15.0 U	15.0 U
Silver	50	2.2 U	1.2 U	1.5 U	5.0 U	3.0 U	3.0 U	3.0 U
Sodium	20000	17300	16900	17400	15600	18400	18500	15700
Thallium	0.5*	3.0 U	10.2 U	2.4 U	15.0 U	20.0 U	20.0 U	20.0 U
Titanium		5.0 U	NA	NA	NA	NA	NA	NA
Vanadium		4.7 U	1.1 U	6.1 U	5.0 U	5.0 U	5.0 U	5.0 U
Zinc	2000*	13.5 U	1.5 U	14.5 J	25.0 U	1.9 J	1.9 J	3.6 J

* - NYSDEC Guidance Value.

1 - Duplicate sample from MW-3D

2- Duplicate sample from MW-6

NA - Not analyzed.

U - Analyte not detected.

J- Greater than the MDL but below the CRDL

B - Greater than MDL but less than RL.

MDL - Method detection limit.

RL - Reporting limit.

E - Estimated value.

[25] - Site-specific cleanup goal.

Table 5-2
Summary of Groundwater Sample Results - Metals
Tioga Castings Site
Owego, New York
NYSDEC Site Number 7-54-012

Well Date Units	NYSDEC Class GA Standards	MW-4 8/2/2007 ug/L	MW-4 7/17/2008 ug/L	MW-4 4/13/2009 ug/L	MW-4 3/18/2010 ug/L	MW-4 10/28/2010 ug/L	MW-4 2/28/2011 ug/L	MW-4 7/19/2012 ug/L	MW-4 10/14/2013 ug/L
Aluminum		40.0 U	32.6 B	754	39.8 U	10.6 J	26.6 J	200.0 U	200.0 U
Antimony	3	5.6 U	5.5 U	6.7 U	6.8 U	8.0 U	15.0 U	20.0 U	20.0 U
Arsenic	25	4.2 U	3.7 U	3.0 U	5.6 U	4.2 U	15.0 U	10.0 U	10.0 U
Barium	1000	40.0 B	38.3 B	60.9 B	42.6 BE	50.3	40.8	48.0	43.0
Beryllium	3*	0.27 U	0.3 U	0.5 U	0.2 U	0.7 U	5.0 U	2.0 U	2.0 U
Cadmium	5 [10]	0.36 U	0.7 B	0.3 U	0.5 BE	0.5 U	1.7 J	1.0 U	1.0 U
Calcium		42700 E	42400	40500	48000	47900	43100	50900	46000
Chromium	50 [50]	0.84 U	0.9 U	3.4 B	0.9 U	1.1 U	5.0 U	1.6 J B	4.0 U
Cobalt		0.89 U	1.1 U	3.8 U	0.6 U	5.8 U	5.0 U	4.0 U	4.0 U
Copper	200	1.4 B	1.3 U	49.7	1.3 U	2.0 U	10.0 U	10.0 U	10.0 U
Iron	300	47.6 B	34 B	667	22.2 BE	33.4 J	57.3 J	50.0 U	34.0 J
Lead	25 [25]	2.9 U	2.9 U	1.4 U	3.0 U	2.6 U	15.0 U	5.0 U	5.0 U
Magnesium		8190 E	7830	7080	8820	8390	8140	9400	8800
Manganese	300	0.79 B	1.2 B	79.4	1.5 BE	2.0 J	2.2 J	0.7 J B	1.6 J
Mercury	0.7	0.12 U	0.1 U	NA	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U
Nickel	100	1.2 U	1.0 U	4.5 B	1.3 U	4.2 U	1.5 J	10.0 U	10.0 U
Potassium		1020 BE	1860 B	1190 B	1130 BE	1230	1330	1300	1100
Selenium	10	6.1 U	6.1 U	11.4 U	8.7 U	4.8 U	38.0 U	15.0 U	15.0 U
Silver	50	1.0 U	1.3 U	2.2 U	1.2 U	1.5 U	5.0 U	2.7 J	3.0 U
Sodium	20000	12000 E	12800	15200	16100	15000	13900	17400	15700
Thallium	0.5*	7.0 U	5.9 U	3.0 U	10.2 U	2.4 U	15.0 U	20.0 U	20.0 U
Titanium		NA	NA	5.0 U	NA	NA	NA	NA	NA
Vanadium		0.78 U	1.0 U	4.7 U	1.1 U	6.1 U	5.0 U	5.0 U	5.0 U
Zinc	2000*	3.6 U	3.6 U	13.5 U	1.5 U	6.5 U	25.0 U	1.5 J	10.0 U

* - NYSDEC Guidance Value.

1 - Duplicate sample from MW-3D

2- Duplicate sample from MW-6

NA - Not analyzed.

U - Analyte not detected.

J- Greater than the MDL but below the CRDL

B - Greater than MDL but less than RL.

MDL - Method detection limit.

RL - Reporting limit.

E - Estimated value.

[25] - Site-specific cleanup goal.

Table 5-2
Summary of Groundwater Sample Results - Metals
Tioga Castings Site
Owego, New York
NYSDEC Site Number 7-54-012

Well Date Units	NYSDEC Class GA Standards	MW-5 8/2/2007 ug/L	MW-5 7/17/2008 ug/L	MW-5 4/13/2009 ug/L	MW-5 3/18/2010 ug/L	MW-5 10/28/2010 ug/L	MW-5 2/28/2011 ug/L	MW-5 7/19/2012 ug/L	MW-5 10/14/2013 ug/L
Aluminum		79.0 B	28.9 B	102 B	39.8 U	22.4 J	250.0 U	85.0 J	120.0 J
Antimony	3	5.6 U	5.5 U	6.7 U	6.8 U	8.0 U	15.0 U	20.0 U	20.0 U
Arsenic	25	4.2 U	3.7 U	3.0 U	5.6 U	4.2 U	15.0 U	10.0 U	10.0 U
Barium	1000	56.4 B	55.7 B	47.1 B	47.4 BE	67.3	52.0	63.0	72.0
Beryllium	3*	0.51 B	0.3 U	0.5 U	0.2 U	0.7 U	5.0 U	2.0 U	2.0 U
Cadmium	5 [10]	0.36 U	0.3 U	0.3 U	0.3 U	0.5 U	5.0 U	1.0 U	1.0 U
Calcium		44400 E	45200	44000	45100	49500	43900	50600	55100
Chromium	50 [50]	0.84 U	0.9 U	3.9 B	0.9 U	1.1 U	5.0 U	1.6 J B	4.0 U
Cobalt		0.89 U	1.1 U	3.8 U	0.6 U	5.8 U	5.0 U	4.0 U	4.0 U
Copper	200	1.3 U	1.3 U	89.3	1.3 U	2.0 U	10.0 U	10.0 U	10.0 U
Iron	300	19.3 U	19 U	246	19.3 U	94.1	52.9 J	150.0	40.0 J
Lead	25 [25]	2.9 U	2.9 U	6.0 B	3.0 U	7.2	15.0 U	5.0 U	5.0 U
Magnesium		7600 E	7570	7440	7330	7980	7500	8500	9600
Manganese	300	0.90 B	0.7 B	10.1 B	0.8 BE	5.6 J	1.8 J	5.8 B	3.6
Mercury	0.7	0.12 U	0.1 U	NA	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U
Nickel	100	1.2 U	1.4 B	5.0 B	1.3 U	4.2 U	5.0 U	10.0 U	10.0 U
Potassium		3330 BE	3340 B	2880 B	3530 BE	3620	3210	3700	3900
Selenium	10	6.1 U	6.1 U	11.4 U	8.7 U	4.8 U	38.0 U	15.0 U	15.0 U
Silver	50	1.6 B	1.3 U	2.2 U	1.2 U	1.5 U	5.0 U	3.0 U	3.0 U
Sodium	20000	14200 E	15400	13300	8320	13600	9080	21400	20500
Thallium	0.5*	7.0 U	5.9 U	3.0 U	10.2 U	2.4 U	15.0 U	20.0 U	20.0 U
Titanium		NA	NA	5.0 U	NA	NA	NA	NA	NA
Vanadium		0.80 B	1.0 U	4.7 U	1.1 U	6.1 U	5.0 U	5.0 U	5.0 U
Zinc	2000*	3.6 U	3.6 U	13.5 U	3.6 BE	15.3 J	25.0 U	4.7 J	3.6 J

* - NYSDEC Guidance Value.

1 - Duplicate sample from MW-3D

2- Duplicate sample from MW-6

NA - Not analyzed.

U - Analyte not detected.

J- Greater than the MDL but below the CRDL

B - Greater than MDL but less than RL.

MDL - Method detection limit.

RL - Reporting limit.

E - Estimated value.

[25] - Site-specific cleanup goal.

Table 5-2
Summary of Groundwater Sample Results - Metals
Tioga Castings Site
Owego, New York
NYSDEC Site Number 7-54-012

Well Date Units	NYSDEC Class GA Standards	MW-6 2/28/2011 ug/L	MW-6 7/24/2012 ug/L	MW-6 10/14/2013 ug/L	MW-X ⁽²⁾ 10/14/2013 ug/L
Aluminum		49.5 J	520.0	310.0	340.0
Antimony	3	15.0 U	20.0 U	20.0 U	20.0 U
Arsenic	25	15.0 U	10.0 U	10.0 U	10.0 U
Barium	1000	53.1	61.0	62.0	63.0
Beryllium	3*	5.0 U	2.0 U	2.0 U	2.0 U
Cadmium	5 [10]	5.0 U	1.0 U	1.0 U	1.0 U
Calcium		54200	73500	54200	55100
Chromium	50 [50]	5.0 U	2.7 J B	4.0 U	4.0 U
Cobalt		5.0 U	4.0 U	4.0 U	4.0 U
Copper	200	10.0 U	10.0 U	10.0 U	10.0 U
Iron	300	98.8 J	670.0	330.0	360.0
Lead	25 [25]	15.0 U	5.0 U	5.0 U	5.0 U
Magnesium		9280	11300	10100	10200
Manganese	300	7.5 J	36.0 B	15.0	17.0
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	5.0 U	10.0 U	10.0 U	10.0 U
Potassium		2090.0	2300	2000	2000
Selenium	10	38.0 U	15.0 U	15.0 U	15.0 U
Silver	50	5 U	3.0 U	3.0 U	3.0 U
Sodium	20000	21900	26900	22400	22500
Thallium	0.5*	15.0 U	20.0 U	20.0 U	20.0 U
Titanium		NA	NA	NA	NA
Vanadium		5 U	5.0 U	5.0 U	5.0 U
Zinc	2000*	25.0 U	4.6 J	2.8 J	2.2 J

* - NYSDEC Guidance Value.

1 - Duplicate sample from MW-3D

2- Duplicate sample from MW-6

NA - Not analyzed.

U - Analyte not detected.

J- Greater than the MDL but below the CRDL

B - Greater than MDL but less than RL.

MDL - Method detection limit.

RL - Reporting limit.

E - Estimated value.

[25] - Site-specific cleanup goal.

Table 5-2
Summary of Groundwater Sample Results - Metals
Tioga Castings Site
Owego, New York
NYSDEC Site Number 7-54-012

Well Date Units	NYSDEC Class GA Standards	MW-7 4/13/2009 ug/L	MW-7 3/18/2010 ug/L	MW-7 10/28/2010 ug/L	MW-7 2/28/2011 ug/L	MW-7 7/19/2012 ug/L	MW-7 10/14/2013 ug/L
Aluminum		1810	140 BE	28.2 J	162.0 J	200.0 U	100.0 J
Antimony	3	6.7 U	6.8 U	8.0 U	15.0 U	20.0 U	20.0 U
Arsenic	25	3.0 U	5.6 U	4.2 U	15.0 U	10.0 U	10.0 U
Barium	1000	165	133 BE	96.0	66.8	92.0	100.0
Beryllium	3*	0.5 U	0.2 U	0.7 U	5.0 U	2.0 U	2.0 U
Cadmium	5 [10]	0.3 U	0.4 BE	0.5 U	5.0 U	1.0 U	1.0 U
Calcium		64300	85600	60300	45200	61200	64000
Chromium	50 [50]	10.4 B	0.9 U	1.1 U	0.8 J	1.5 J B	4.0 U
Cobalt		5.8 B	0.6 U	5.8 U	5.0 U	4.0 U	4.0 U
Copper	200	178	3.1 BE	3.6 J	4.5 J	1.7 J	5.1 J
Iron	300	2880	192	297.0	457.0	170.0	660
Lead	25 [25]	30.2 B	3.0 U	3.1 J	2.9 J	5.0 U	5.0 U
Magnesium		10000	13600	9230	7030	9300	10300
Manganese	300	989	115	474.0	130.0	210.0 B	340.0
Mercury	0.7	NA	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U
Nickel	100	10.6 B	2.8 BE	4.2 U	1.1 J	10.0 U	2.1 J
Potassium		4510	5190	4170	3270	4200	4400
Selenium	10	11.4 U	8.7 U	4.8 U	38.0 U	15.0 U	15.0 U
Silver	50	2.2 U	1.2 U	1.5 U	5.0 U	3.0 U	3.0 U
Sodium	20000	57500	58900	20700	32700	27600	22100
Thallium	0.5*	3.0 U	10.2 U	2.4 U	15.0 U	20.0 U	20.0 U
Titanium		5.0 U	NA	NA	NA	NA	NA
Vanadium		7.2 B	1.1 U	6.1 U	5.0 U	5.0 U	5.0 U
Zinc	2000*	40.4 B	10.4 BE	18.0 J	18.3 J	4.8 J	7.3 J

* - NYSDEC Guidance Value.

1 - Duplicate sample from MW-3D

2- Duplicate sample from MW-6

NA - Not analyzed.

U - Analyte not detected.

J- Greater than the MDL but below the CRDL

B - Greater than MDL but less than RL.

MDL - Method detection limit.

RL - Reporting limit.

E - Estimated value.

[25] - Site-specific cleanup goal.

Table 5-2
Summary of Groundwater Sample Results - Metals
Tioga Castings Site
Owego, New York
NYSDEC Site Number 7-54-012

Well Date Units	NYSDEC Class GA Standards	MW-8 4/13/2009 ug/L	MW-8 3/18/2010 ug/L	MW-8 10/28/2010 ug/L	MW-8 2/28/2011 ug/L	MW-8 7/19/2012 ug/L	MW-8 10/14/2013 ug/L
Aluminum		6190	39.8 U	45.5 J	324.0	230.0	130.0 J
Antimony	3	6.7 U	6.8 U	8.0 U	15.0 U	20.0 U	20.0 U
Arsenic	25	3.0 U	5.6 U	4.2 U	15.0 U	10.0 U	10.0 U
Barium	1000	219	64.6 BE	71.6	67.0	66.0	67.0
Beryllium	3*	0.5 U	0.2 U	0.7 U	5.0 U	2.0 U	2.0 U
Cadmium	5 [10]	0.3 U	0.3 BE	0.5 U	5.0 U	1.0 U	1.0 U
Calcium		52400	52600	52800	50300	50000	49200
Chromium	50 [50]	8.9 B	0.9 U	1.9 J	5.0 U	1.9 J B	4.0 U
Cobalt		3.8 U	0.6 U	5.8 U	5.0 U	4.0 U	4.0 U
Copper	200	66.3	1.3 U	2.3 J	1.6 J	10.0 U	10.0 U
Iron	300	4530	40.2 BE	104.0	560.0	140.0	190.0
Lead	25 [25]	17.3 B	3.0 U	2.6 U	15.0 U	5.0 U	5.0 U
Magnesium		8740	8870	8300	8430	8000	8300
Manganese	300	524	2.7 BE	5.0 J	28.9	4.0 B	8.5
Mercury	0.7	NA	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U
Nickel	100	9.5 B	1.3 U	4.2 U	5.0 U	10.0 U	10.0 U
Potassium		3770	2440 BE	2630	2630	2900	2600
Selenium	10	11.4 U	8.7 U	4.8 U	38.0 U	15.0 U	15.0 U
Silver	50	2.2 U	1.2 U	1.5 U	5.0 U	3.0 U	3.0 U
Sodium	20000	26700	23300	21300	21900	28500	18600
Thallium	0.5*	3.0 U	10.2 U	2.4 U	15.0 U	20.0 U	20.0 U
Titanium		34.4 B	NA	NA	NA	NA	NA
Vanadium		9.8 B	1.1 U	6.1 U	5.0 U	5.0 U	5.0 U
Zinc	2000*	40.2 B	3.0 BE	23.8	25.0 U	4.1 J	3.3 J

* - NYSDEC Guidance Value.

1 - Duplicate sample from MW-3D

2- Duplicate sample from MW-6

NA - Not analyzed.

U - Analyte not detected.

J- Greater than the MDL but below the CRDL

B - Greater than MDL but less than RL.

MDL - Method detection limit.

RL - Reporting limit.

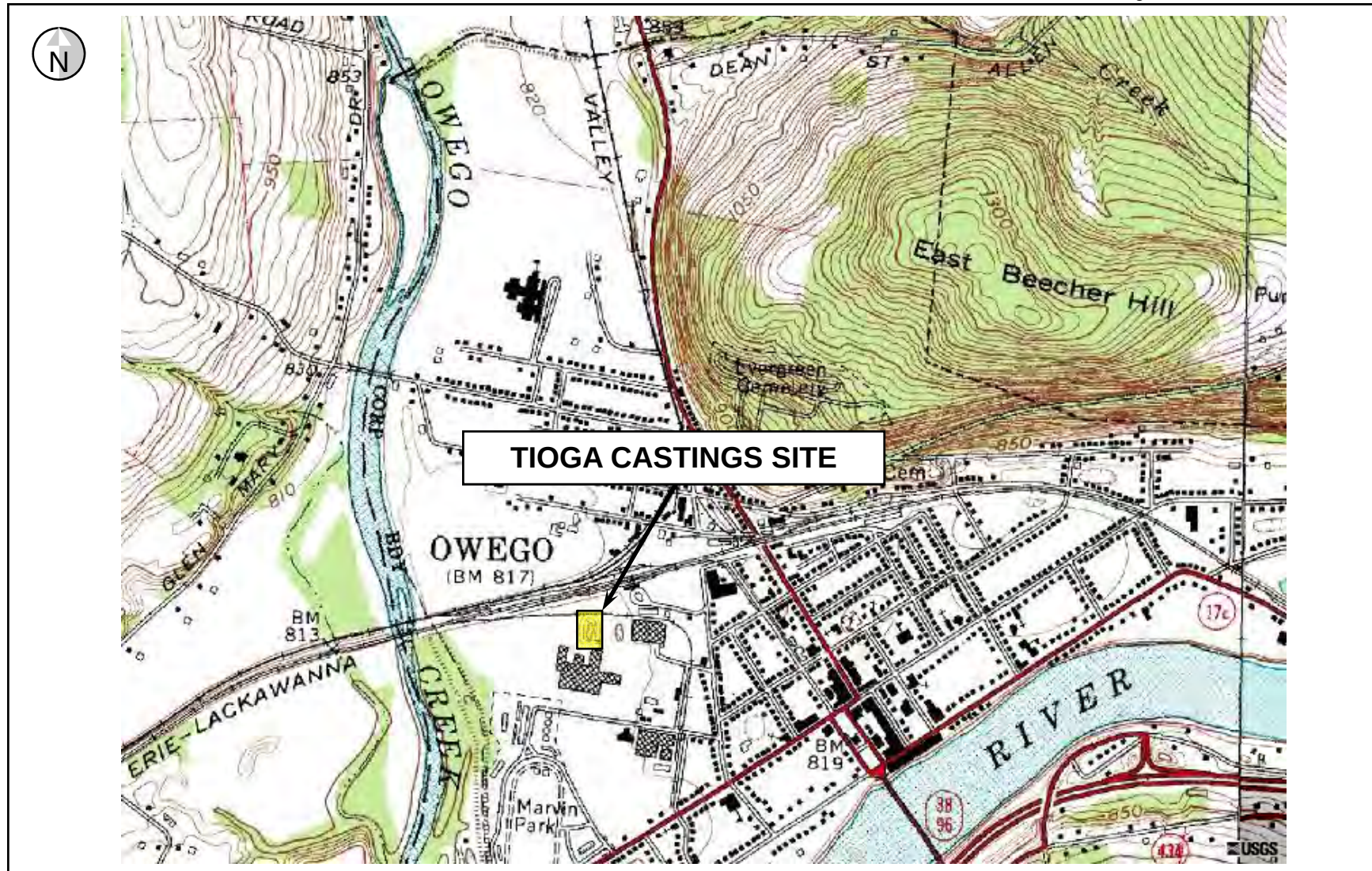
E - Estimated value.

[25] - Site-specific cleanup goal.

Figures

Figure 2-1
Site Location
Tioga Castings Site
NYSDEC Site Number 7-54-012
Owego, New York

0  2,000 ft



Source: USGS 7.5-minute Series Topographic Quadrangle, OWEGO (1990).

G:\GISMOD\00266403.0000\Site Map.mxd
G:\PROJECT\00266403.0000\PRR\Figure 2-2.pdf



Legend

- Monitoring Well
- Former Casting Facility
- On-Site Landfill/Site Boundary
- Approximate Parcel Boundary

0 60 120 240 360 480 Feet



Note: Site feature boundaries are approximate.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SITE NUMBER 754012

Tioga Casting Facility, Owego, New York

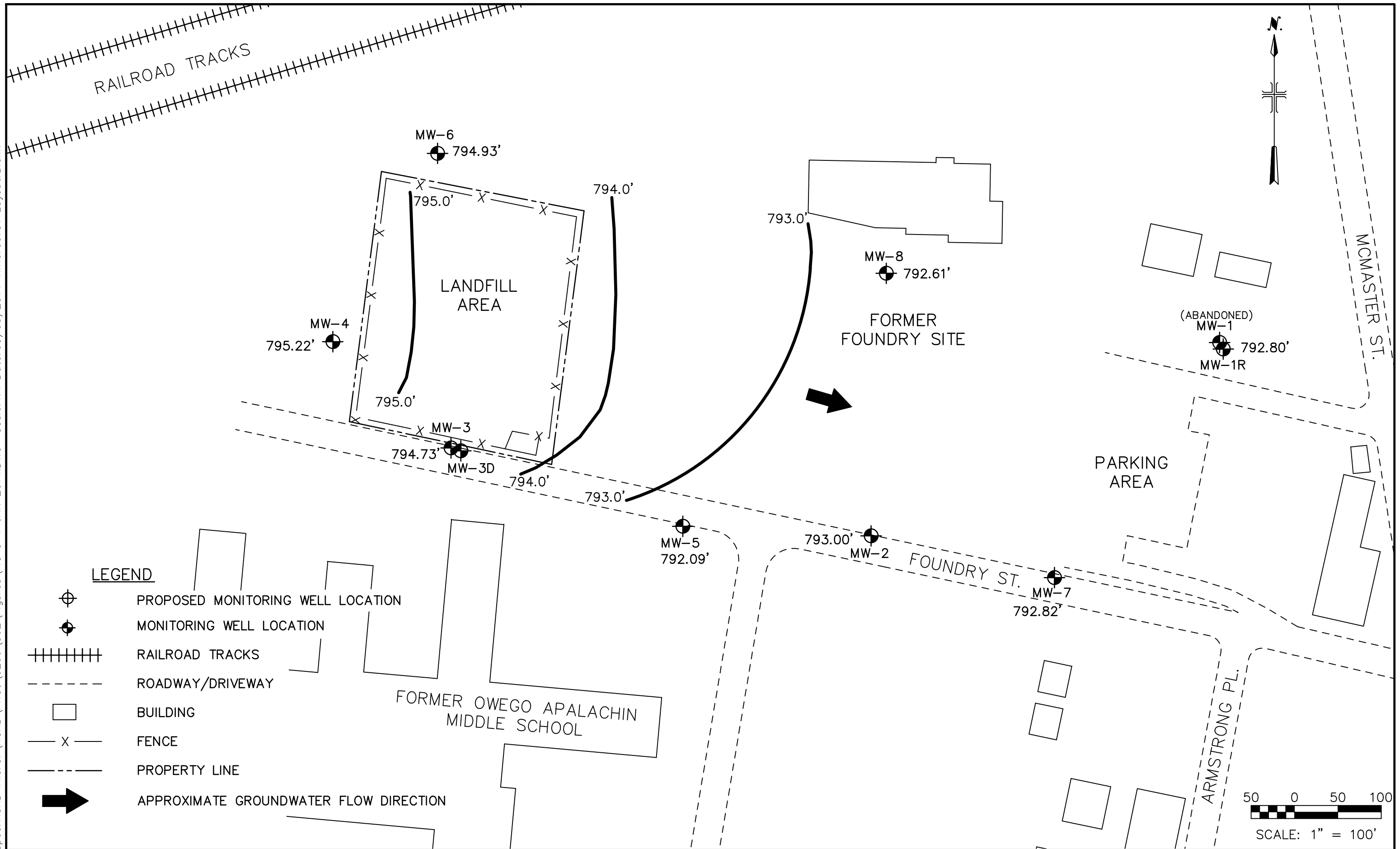
SITE FEATURES



FIGURE

2-2

User: CADD Spec: ACAD File: G:\ACAD\PROJ\0266\362\Figures\FIG 5-1 JAN 2014.DWG Scale: 1:1 Date: 03/05/2014 Time: 09:31 Layout: Blank



Appendix A

O&M Checklists

TIOGA CASTINGS SITE LANDFILL

Post-Closure Operation and Maintenance Checklist

Inspected by: Jeremy Wyckoff

Date: 5/17/2013 Time: 1600

Weather Conditions: Cloudy 65°F

LANDFILL COVER SYSTEM

Erosion	<u> </u>	YES	<u> X </u>	NO
Holes or Cracks in Cover	<u> </u>	YES	<u> X </u>	NO
Cap Settlement	<u> </u>	YES	<u> X </u>	NO
Ponded Water or Wet Areas	<u> </u>	YES	<u> X </u>	NO
Burrowing Rodents	<u> </u>	YES	<u> X </u>	NO
Sparse Vegetation/Bare Soil	<u> </u>	YES	<u> X </u>	NO
Brush or Other Woody Vegetation,	<u> </u>	YES	<u> X </u>	NO
Excessive Weeds in Grass	<u> </u>	YES	<u> X </u>	NO
Grass Mowed	<u> </u>	YES	<u> X </u>	NO

DRAINAGE DITCHES

Erosion	<u> </u>	YES	<u> X </u>	NO
Obstructions	<u> </u>	YES	<u> X </u>	NO
Sediment Accumulation	<u> </u>	YES	<u> X </u>	NO
Evidence of Surcharging	<u> </u>	YES	<u> X </u>	NO
Presence of Brush	<u> X </u>	YES	<u> </u>	NO

Comments: Brush growing in perimeter swales - None on landfill cap.

Continued

FENCING

Warning Signs	<u> X </u>	OK	<u> </u>	OTHER
Gates and Locks	<u> X </u>	OK	<u> </u>	OTHER
Posts	<u> X </u>	OK	<u> </u>	OTHER
Top Tension Wire	<u> X </u>	OK	<u> </u>	OTHER
Barbed Wire	<u> X </u>	OK	<u> </u>	OTHER

Comments: _____

MONITORING WELLS

Capped and Locked	<u> X </u>	YES	<u> </u>	NO
Casing Damage	<u> </u>	YES	<u> X </u>	NO

Comments: _____

INSPECTOR'S SIGNATURE JRW **DATE** 5/17/2013

TIOGA CASTINGS SITE LANDFILL

Post-Closure Operation and Maintenance Checklist

Inspected by:

Date:

Time:

Weather Conditions:

LANDFILL COVER SYSTEM

Erosion	_____	YES	☒	NO
Holes or Cracks in Cover	_____	YES	☒	NO
Cap Settlement	_____	YES	☒	NO
Ponded Water or Wet Areas	_____	YES	☒	NO
Burrowing Rodents	_____	YES	☒	NO
Sparse Vegetation/Bare Soil	_____	YES	☒	NO
Brush or Other Woody Vegetation,	_____	YES	☒	NO
Excessive Weeds in Grass	_____	YES	☒	NO
Grass Mowed	☒	YES	☒	NO

DRAINAGE DITCHES

Erosion	_____	YES	<u>✓</u>	NO
Obstructions	_____	YES	<u>✓</u>	NO
Sediment Accumulation	_____	YES	<u>✓</u>	NO
Evidence of Surcharging	_____	YES	<u>✓</u>	NO
Presence of Brush	_____	YES	<u>✓</u>	NO

Comments:

Continued

FENCING

Gates and Locks	<u>✓</u>	OK	<u> </u>	OTHER
Posts	<u>✓</u>	OK	<u> </u>	OTHER
Top Tension Wire	<u>✓</u>	OK	<u> </u>	OTHER
Barbed Wire	<u> </u>	OK	<u>N/A</u>	OTHER

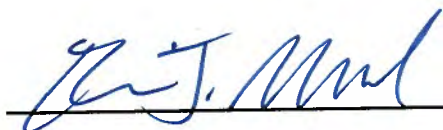
Comments: _____

MONITORING WELLS

Capped and Locked	<u>✓</u>	YES	<u> </u>	NO
Casing Damage	<u> </u>	YES	<u>✓</u>	NO

Comments: _____

INSPECTOR'S SIGNATURE



DATE 10/14/13



Appendix B

Site Photolog from May 17, 2013
Inspection



Landfill Access Gate



South edge of landfill – looking west



West side of landfill – looking north.



West side of landfill – looking south.



North side of landfill – looking east.



North side of landfill – looking west.



East side of landfill – looking south.



East side of landfill – looking north.



Landfill – looking northwest.



Landfill – looking southwest.



Landfill – looking southeast.



Landfill – looking northeast.

Appendix C

Well Inspection Forms



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: TIOGA CASTING PROJECT NUMBER: 00266403.0000
DATE OF INSPECTION: 10/14/13 INSPECTOR: ETM
WELL DESIGNATION: MW-1R
WELL LOCATION: _____

Outward Appearance

Flushmount Diameter _____ inches N/A [☒]
Approximate Stickup Height 3.0 feet N/A []
Integrity of Protective Casing Describe: OK
Protective Casing Material Steel [☒] Stainless Steel [] Other _____
Protective Casing Width or Dia. 4 inches
Weep Hole in Protective Casing Yes [] No [☒]
Surface Seal/Apron Material Cement [☒] Bentonite [] Not apparent [] Other _____
Integrity of Surface Seal/Apron Describe: OK
Surface Drainage Away from Wellhead [] Toward Wellhead [] FLAT
Bollards Present? Yes [] No [☒] Describe: _____
Well ID. Visible? Yes [☒] No [] Describe: _____
Lock Present and Functional? Yes [☒] No [] Describe: _____
Photograph Taken? Photo # Yes [] No [☒] Describe: _____

Inner Appearance

Integrity of Well Casing Describe: OK
Integrity of Cap Seal Describe: OK
Surface Water in Casing? Yes [] No [☒] Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC [☒] Steel [] Stainless Steel []
Inner Cap Threaded [] Slip [] Expansion Plug [☒] None []
Reference/Measuring Point Groove [] Indelible Mark [☒] None []
Evidence of Double Casing? Yes [] No [☒] Describe: _____

Downhole

Odor Yes [] No [☒] Describe: _____
PID Reading NM ppm
Depth to Water (to top of casing) 21.02 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A []
Total Well Depth (to top of casing) 25.30 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: _____

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: TIOGA CASTINGS PROJECT NUMBER: 00266403.0000
DATE OF INSPECTION: 10/14/13 INSPECTOR: ETM
WELL DESIGNATION: MW-2
WELL LOCATION: _____

Outward Appearance

Flushmount Diameter _____ inches N/A ☒
Approximate Stickup Height 2.5 feet N/A ☐
Integrity of Protective Casing Describe: OK
Protective Casing Material Steel ☒ Stainless Steel ☐ Other _____
Protective Casing Width or Dia. 4 inches
Weep Hole in Protective Casing Yes ☐ No ☒
Surface Seal/Apron Material Cement ☒ Bentonite ☐ Not apparent ☒ Other _____
Integrity of Surface Seal/Apron Describe: COVERED BY GRAVEL
Surface Drainage Away from Wellhead ☐ Toward Wellhead ☒
Bollards Present? Yes ☐ No ☒ Describe: _____
Well ID. Visible? Yes ☒ No ☐ Describe: _____
Lock Present and Functional? Yes ☒ No ☐ Describe: _____
Photograph Taken? Photo # Yes ☐ No ☒ Describe: _____

Inner Appearance

Integrity of Well Casing Describe: OK
Integrity of Cap Seal Describe: OK
Surface Water in Casing? Yes ☐ No ☒ Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel ☐ Stainless Steel ☐
Inner Cap Threaded ☐ Slip ☒ Expansion Plug ☐ None ☐
Reference/Measuring Point Groove ☐ Indelible Mark ☒ None ☐
Evidence of Double Casing? Yes ☐ No ☒ Describe: _____

Downhole

Odor Yes ☐ No ☒ Describe: _____
PID Reading NM ppm
Depth to Water (to top of casing) 14.68 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A ☐
Total Well Depth (to top of casing) 19.74 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: _____

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: TIOGA CASTINGS PROJECT NUMBER: 00266403.0000
DATE OF INSPECTION: 10/14/13 INSPECTOR: EDM
WELL DESIGNATION: MW-3S
WELL LOCATION: _____

Outward Appearance

Flushmount Diameter _____ inches N/A ☒
Approximate Stickup Height 2.5 feet N/A ☐
Integrity of Protective Casing Describe: OK
Protective Casing Material Steel ☒ Stainless Steel ☐ Other _____
Protective Casing Width or Dia. 4 inches
Weep Hole in Protective Casing Yes ☐ No ☒
Surface Seal/Apron Material Cement ☐ Bentonite ☐ Not apparent ☒ Other _____
Integrity of Surface Seal/Apron Describe: COVERED BY SOIL
Surface Drainage Away from Wellhead ☒ Toward Wellhead ☐
Bollards Present? Yes ☐ No ☒ Describe: _____
Well ID. Visible? Yes ☒ No ☐ Describe: _____
Lock Present and Functional? Yes ☒ No ☐ Describe: _____
Photograph Taken? Photo # Yes ☐ No ☒ Describe: _____

Inner Appearance

Integrity of Well Casing Describe: OK
Integrity of Cap Seal Describe: OK
Surface Water in Casing? Yes ☐ No ☒ Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel ☐ Stainless Steel ☐
Inner Cap Threaded ☐ Slip ☐ Expansion Plug ☒ None ☐
Reference/Measuring Point Groove ☐ Indelible Mark ☒ None ☐
Evidence of Double Casing? Yes ☐ No ☒ Describe: _____

Downhole

Odor Yes ☐ No ☒ Describe: _____
PID Reading NM ppm
Depth to Water (to top of casing) 17.79 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A ☐
Total Well Depth (to top of casing) 18.70 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: _____

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: TIOGA CASTINGS PROJECT NUMBER: 00266403.0000
DATE OF INSPECTION: 10/14/13 INSPECTOR: EDM
WELL DESIGNATION: MW-3D
WELL LOCATION: _____

Outward Appearance

Flushmount Diameter _____ inches N/A ☒
Approximate Stickup Height 2.5 feet N/A ☐
Integrity of Protective Casing Describe: OK
Protective Casing Material Steel ☒ Stainless Steel ☐ Other _____
Protective Casing Width or Dia. 4 inches
Weep Hole in Protective Casing Yes ☐ No ☒
Surface Seal/Apron Material Cement ☒ Bentonite ☐ Not apparent ☐ Other _____
Integrity of Surface Seal/Apron Describe: OK
Surface Drainage Away from Wellhead ☒ Toward Wellhead ☐
Bollards Present? Yes ☐ No ☒ Describe: _____
Well ID. Visible? Yes ☒ No ☐ Describe: _____
Lock Present and Functional? Yes ☒ No ☐ Describe: _____
Photograph Taken? Photo # Yes ☐ No ☒ Describe: _____

Inner Appearance

Integrity of Well Casing Describe: OK
Integrity of Cap Seal Describe: OK
Surface Water in Casing? Yes ☐ No ☒ Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel ☐ Stainless Steel ☐
Inner Cap Threaded ☐ Slip ☐ Expansion Plug ☒ None ☐
Reference/Measuring Point Groove ☐ Indelible Mark ☒ None ☐
Evidence of Double Casing? Yes ☐ No ☒ Describe: _____

Downhole

Odor Yes ☐ No ☒ Describe: _____
PID Reading NM ppm
Depth to Water (to top of casing) 12.69 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A ☐
Total Well Depth (to top of casing) 25.15 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: _____

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: NOGA CASTINGS PROJECT NUMBER: 00266403.0000
DATE OF INSPECTION: 10/14/13 INSPECTOR: ETM
WELL DESIGNATION: NW-4
WELL LOCATION: _____

Outward Appearance

Flushmount Diameter 8 inches N/A ☒
Approximate Stickup Height _____ feet N/A ☒
Integrity of Protective Casing Describe: _____
Protective Casing Material Steel ☐ Stainless Steel ☐ Other _____
Protective Casing Width or Dia. _____ inches
Weep Hole in Protective Casing Yes ☐ No ☐
Surface Seal/Apron Material Cement ☒ Bentonite ☐ Not apparent ☐ Other _____
Integrity of Surface Seal/Apron Describe: SLIGHT TILT
Surface Drainage Away from Wellhead ☒ Toward Wellhead ☐
Bollards Present? Yes ☒ No ☒ Describe: _____
Well ID. Visible? Yes ☐ No ☒ Describe: _____
Lock Present and Functional? Yes ☐ No ☒ Describe: _____
Photograph Taken? Photo # Yes ☐ No ☒ Describe: _____

Inner Appearance

Integrity of Well Casing Describe: OK
Integrity of Cap Seal Describe: OK
Surface Water in Casing? Yes ☒ No ☐ Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel ☐ Stainless Steel ☐
Inner Cap Threaded ☐ Slip ☐ Expansion Plug ☒ None ☐
Reference/Measuring Point Groove ☐ Indelible Mark ☒ None ☐
Evidence of Double Casing? Yes ☐ No ☒ Describe: _____

Downhole

Odor Yes ☐ No ☒ Describe: _____
PID Reading NM ppm
Depth to Water (to top of casing) 11.11 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A ☐
Total Well Depth (to top of casing) 15.08 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: _____

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: TIOGA CASTINGS PROJECT NUMBER: 00266403.0000
DATE OF INSPECTION: 10/14/13 INSPECTOR: RTM
WELL DESIGNATION: MW-5
WELL LOCATION: _____

Outward Appearance

Flushmount Diameter 8 inches N/A []
Approximate Stickup Height _____ feet N/A [X]
Integrity of Protective Casing Describe: _____
Protective Casing Material Steel [] Stainless Steel [] Other _____
Protective Casing Width or Dia. _____ inches
Weep Hole in Protective Casing Yes [] No []
Surface Seal/Apron Material Cement [] Bentonite [] Not apparent [X] Other _____
Integrity of Surface Seal/Apron Describe: COVERED BY GRASS
Surface Drainage Away from Wellhead [] Toward Wellhead [X]
Bollards Present? Yes [] No [X] Describe: _____
Well ID. Visible? Yes [] No [X] Describe: _____
Lock Present and Functional? Yes [] No [X] Describe: _____
Photograph Taken? Photo # Yes [] No [X] Describe: _____

Inner Appearance

Integrity of Well Casing Describe: OK
Integrity of Cap Seal Describe: OK
Surface Water in Casing Yes [X] No [] Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC [X] Steel [] Stainless Steel []
Inner Cap Threaded [] Slip [] Expansion Plug [X] None []
Reference/Measuring Point Groove [] Indelible Mark [X] None []
Evidence of Double Casing? Yes [] No [X] Describe: _____

Downhole

Odor Yes [] No [X] Describe: _____
PID Reading NM ppm
Depth to Water (to top of casing) 11.80 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A []
Total Well Depth (to top of casing) 16.40 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: _____

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: TIOGA CISTERS PROJECT NUMBER: 00266403.0000
DATE OF INSPECTION: 10/14/13 INSPECTOR: ETM
WELL DESIGNATION: MW-6
WELL LOCATION: _____

Outward Appearance

Flushmount Diameter _____ inches N/A ☒
Approximate Stickup Height 3.5 feet N/A ☐
Integrity of Protective Casing Describe: OK
Protective Casing Material Steel ☒ Stainless Steel ☐ Other _____
Protective Casing Width or Dia. 4 inches
Weep Hole in Protective Casing Yes ☐ No ☒
Surface Seal/Apron Material Cement ☒ Bentonite ☐ Not apparent ☐ Other _____
Integrity of Surface Seal/Apron Describe: Good
Surface Drainage Away from Wellhead ☒ Toward Wellhead ☐
Bollards Present? Yes ☐ No ☒ Describe: _____
Well ID. Visible? Yes ☒ No ☐ Describe: _____
Lock Present and Functional? Yes ☐ No ☒ Describe: _____
Photograph Taken? Photo # Yes ☐ No ☒ Describe: _____

Inner Appearance

Integrity of Well Casing Describe: OK
Integrity of Cap Seal Describe: OK
Surface Water in Casing? Yes ☐ No ☒ Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel ☐ Stainless Steel ☐
Inner Cap Threaded ☐ Slip ☐ Expansion Plug ☒ None ☐
Reference/Measuring Point Groove ☐ Indelible Mark ☒ None ☐
Evidence of Double Casing? Yes ☐ No ☒ Describe: _____

Downhole

Odor Yes ☐ No ☒ Describe: _____
PID Reading NM ppm
Depth to Water (to top of casing) 20.00 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A ☐
Total Well Depth (to top of casing) 27.27 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: _____

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: TUGA CASTINGS PROJECT NUMBER: 00266403.0000
DATE OF INSPECTION: 10/14/13 INSPECTOR: EDM
WELL DESIGNATION: MM-7
WELL LOCATION: _____

Outward Appearance

Flushmount Diameter 6 inches N/A []
Approximate Stickup Height _____ feet N/A [X]
Integrity of Protective Casing Describe: OK
Protective Casing Material Steel [] Stainless Steel [] Other _____
Protective Casing Width or Dia. _____ inches
Weep Hole in Protective Casing Yes [] No []
Surface Seal/Apron Material Cement [X] Bentonite [] Not apparent [] Other _____
Integrity of Surface Seal/Apron Describe: OK
Surface Drainage Away from Wellhead [X] Toward Wellhead []
Bollards Present? Yes [] No [X] Describe: _____
Well ID. Visible? Yes [X] No [] Describe: _____
Lock Present and Functional? Yes [] No [X] Describe: _____
Photograph Taken? Photo # Yes [] No [X] Describe: _____

Inner Appearance

Integrity of Well Casing Describe: OK
Integrity of Cap Seal Describe: OK
Surface Water in Casing? Yes [X] No [] Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC [X] Steel [] Stainless Steel []
Inner Cap Threaded [] Slip [] Expansion Plug [X] None []
Reference/Measuring Point Groove [] Indelible Mark [X] None []
Evidence of Double Casing? Yes [] No [X] Describe: _____

Downhole

Odor Yes [] No [X] Describe: _____
PID Reading NM ppm
Depth to Water (to top of casing) 14.30 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A []
Total Well Depth (to top of casing) 27.43 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: _____

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: TIOGA CAST/NGS PROJECT NUMBER: 00266403.0000
DATE OF INSPECTION: 10/14/13 INSPECTOR: EJM
WELL DESIGNATION: MW-8
WELL LOCATION: _____

Outward Appearance

Flushmount Diameter _____ inches N/A ☒
Approximate Stickup Height 3 feet N/A ☐
Integrity of Protective Casing Describe: OK
Protective Casing Material Steel ☒ Stainless Steel ☐ Other _____
Protective Casing Width or Dia. 4 inches
Weep Hole in Protective Casing Yes ☐ No ☒
Surface Seal/Apron Material Cement ☐ Bentonite ☐ Not apparent ☒ Other _____
Integrity of Surface Seal/Apron Describe: COVERED
Surface Drainage Away from Wellhead ☒ Toward Wellhead ☐
Bollards Present? Yes ☐ No ☒ Describe: _____
Well ID. Visible? Yes ☒ No ☐ Describe: _____
Lock Present and Functional? Yes ☒ No ☐ Describe: _____
Photograph Taken? Photo # Yes ☐ No ☒ Describe: _____

Inner Appearance

Integrity of Well Casing Describe: OK
Integrity of Cap Seal Describe: OK
Surface Water in Casing? Yes ☐ No ☐ Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel ☐ Stainless Steel ☐
Inner Cap Threaded ☐ Slip ☐ Expansion Plug ☒ None ☐
Reference/Measuring Point Groove ☐ Indelible Mark ☒ None ☐
Evidence of Double Casing? Yes ☐ No ☒ Describe: _____

Downhole

Odor Yes ☐ No ☒ Describe: _____
PID Reading NM ppm
Depth to Water (to top of casing) 21.12 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A ☐
Total Well Depth (to top of casing) 27.70 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: _____

Additional Comments:

Appendix D

Groundwater Level Data Forms

GROUNDWATER LEVEL DATA FORM

PROJECT NAME: Tioga Casting
PROJECT NUMBER: 00266403.0000

DATE: 10/14/2013
PERSONNEL: E. Moskal

[illegible]

Notes:

NM - Not Measured

TOC - Top of Casing

Appendix E

Groundwater Sampling Purge Logs



WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-1R

DATE: 10/14/2013

PROJECT NAME: Tioga Castings
PROJECT NUMBER: 00266403.0000
SAMPLERS: AM/EM

A: Total Casing and Screen Length: 25.36ft

B: Casing Internal Diameter: 2in

C: Water Level Below Top of Casing: 21.02ft

D: Volume of Water in Casing: 0.7 gal

$$v = 0.0408 (B)^2 \times (A-C) = D$$

$$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \quad \text{gal.}$$

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1425	1430	1435	1440								
Gallons	0.00	0.75	1.50	2.25								
Depth to Water (ft)	21.02	21.03	21.03	21.02								
pH	6.82	7.16	7.26	7.25								
Conductivity (mS/cm)	0.565	0.55	0.548	0.547								
Turbidity (ntu)	932	266	97.8	44.2								
Dissolved Oxygen (mg/l)	12.64	8.06	6.87	6.39								
Temperature (°C)	13.14	12.38	12.36	12.34								
Salinity (ppt)	0.3	0.3	0.3	0.30								
TDS (g/L)	0.359	0.359	0.359	0.359								
Redox (mV)	6	9	14	14								

Notes: Sample collected @ 1445



WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-2

DATE: 10/14/2013

PROJECT NAME: Tioga Castings

PROJECT NUMBER: 00266403.0000

SAMPLERS: AM/EM

A: Total Casing and Screen Length: 19.74ft

B: Casing Internal Diameter: 2in

C: Water Level Below Top of Casing: 14.68ft

D: Volume of Water in Casing: 0.9 gal

$$v = 0.0408 (B)^2 \times (A-C) = D$$

$$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \quad \text{gal.}$$

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED												
Time	1230	1235	1240	1245	1250	1255							
Gallons	0	1	2	3	4	5							
Depth to Water (ft)	14.68	14.71	14.73	14.73	14.73	14.73							
pH	6.73	6.76	6.72	6.72	6.72	6.72							
Conductivity (mS/cm)	1.7	1.11	0.743	0.753	0.758	0.757							
Turbidity (ntu)	0.0	0.0	0.0	0.0	0.0	0.0							
Dissolved Oxygen (mg/l)	5.72	4.41	11.11	10.43	10.41	10.39							
Temperature (°C)	13.56	13.58	13.80	13.90	13.91	13.92							
Salinity (ppt)	0.8	0.5	0.4	0.4	0.4	0.4							
TDS (g/L)	1.02	0.699	0.476	0.480	0.473	0.471							
Redox (mV)	198	181	184	186	189	190							

Notes: Sample collected @ 1255

Purged approximately 5 gallons



WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-3D

DATE: 10/14/2013

PROJECT NAME: Tioga Castings
PROJECT NUMBER: 00266403.0000
SAMPLERS: AM/EM

A: Total Casing and Screen Length: 25.15ft
B: Casing Internal Diameter: 2in
C: Water Level Below Top of Casing: 12.69ft
D: Volume of Water in Casing: 2.1 gal

$$v = 0.0408 (B)^2 \times (A-C) = D$$

$$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \quad \text{gal.}$$

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1230	1235	1238	1242								
Gallons	0	1	2	3								
Depth to Water (ft)												
pH	6.40	6.78	6.78	6.84								
Conductivity (mS/cm)	0.173	0.399	0.398	0.387								
Turbidity (ntu)	524	33.0	14.6	15.8								
Dissolved Oxygen (mg/l)	10.40	6.40	6.05	5.79								
Temperature (°C)	16.04	13.84	13.65	14.22								
Salinity (ppt)	0.1	0.2	0.2	0.2								
TDS (g/L)	0.132	0.259	0.255	0.251								
Redox (mV)	35	12	12	9								

Notes: Sample collected @ 1245



WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-4

DATE: 10/14/2013

PROJECT NAME: Tioga Castings

PROJECT NUMBER: 00266403.0000

SAMPLERS: AM/EM

A: Total Casing and Screen Length: 15.08ft

B: Casing Internal Diameter: 2in

C: Water Level Below Top of Casing: 11.11ft

D: Volume of Water in Casing: 0.7 gal

$$v = 0.0408 (B)^2 \times (A-C) = D$$

$$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \quad \text{gal.}$$

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1145	1150	1155	1200	1205	1210						
Gallons	0	1	2	3	4	5						
Depth to Water (ft)	11.11	11.11	11.11	11.11	11.11	11.11						
pH	7.18	7.14	7.05	7.00	7.00	6.99						
Conductivity (mS/cm)	0.436	0.404	0.401	0.400	0.400	0.400						
Turbidity (ntu)	63	0.0	0.0	0.0	0.0	0.0						
Dissolved Oxygen (mg/l)	10.91	13.34	12.73	12.19	12.11	12.09						
Temperature (°C)	14.84	13.98	13.92	13.87	13.81	13.80						
Salinity (ppt)	0.2	0.2	0.2	0.2	0.2	0.2						
TDS (g/L)	0.282	0.263	0.261	0.260	0.260	0.260						
Redox (mV)	232	206	201	198	197	197						

Notes: Sample collected @ 1210

Purged approximately 5 gallons



WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-5

DATE: 10/14/2013

PROJECT NAME: Tioga Castings

PROJECT NUMBER: 00266403.0000

SAMPLERS: AM/EM

A: Total Casing and Screen Length: 16.40ft

B: Casing Internal Diameter: 2in

C: Water Level Below Top of Casing: 11.80ft

D: Volume of Water in Casing: 0.8 gal

$$v = 0.0408 (B)^2 \times (A-C) = D$$

$$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \quad \text{gal.}$$

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1145	1148	1150	1152								
Gallons	0	1										
Depth to Water (ft)												
pH	6.68	6.47	6.38	6.40								
Conductivity (mS/cm)	0.478	0.476	0.474	0.474								
Turbidity (ntu)	5.8	0.3	0.0	0.0								
Dissolved Oxygen (mg/l)	5.95	4.76	4.01	3.91								
Temperature (°C)	15.62	15.52	15.44	15.43								
Salinity (ppt)	0.2	0.2	0.2	0.2								
TDS (g/L)	0.311	0.309	0.308	0.308								
Redox (mV)	27	30	35	34								

Notes: Sample collected @ 1200



WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-6

DATE: 10/14/2013

PROJECT NAME: Tioga Castings

PROJECT NUMBER: 00266403.0000

SAMPLERS: AM/EM

A: Total Casing and Screen Length: 27.27ft

B: Casing Internal Diameter: 2in

C: Water Level Below Top of Casing: 20.60ft

D: Volume of Water in Casing: 1.1 gal

$$v = 0.0408 (B)^2 \times (A-C) = D$$

$$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \quad \text{gal.}$$

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1425	1430	1435	1440								
Gallons	0	1	2	3								
Depth to Water (ft)	20.96	20.99	20.99	20.99								
pH	14.45	13.73	13.79	13.79								
Conductivity (mS/cm)	6.89	6.72	6.71	6.72								
Turbidity (ntu)	189	183	182	183								
Dissolved Oxygen (mg/l)	0.570	0.474	0.474	0.474								
Temperature (°C)	0	0	0	0								
Salinity (ppt)	9.47	7.05	7.01	6.99								
TDS (g/L)	0.326	0.308	0.308	0.308								
Redox (mV)	0.2	0.2	0.2	0.2								

Notes: Sample collected @ 1440

Purged approximately 3 gallons

Collected MW-6 MS, MW-6 MSD, and DUP MW-X



WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-7

DATE: 10/14/2013

PROJECT NAME: Tioga Castings

PROJECT NUMBER: 00266403.0000

SAMPLERS: AM/EM

A: Total Casing and Screen Length: 22.43ft

B: Casing Internal Diameter: 2in

C: Water Level Below Top of Casing: 14.30ft

D: Volume of Water in Casing: 1.4

$$v = 0.0408 (B)^2 \times (A-C) = D$$

$$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \quad \text{gal.}$$

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1330	1335	1338	1342								
Gallons	0	1	2	3								
Depth to Water (ft)	14.30	14.31	14.32	14.32								
pH	6.59	6.44	6.44	6.43								
Conductivity (mS/cm)	0.731	0.512	0.512	0.513								
Turbidity (ntu)	145	20.9	8.2	4.3								
Dissolved Oxygen (mg/l)	12.81	3.82	2.89	2.48								
Temperature (°C)	14.67	13.22	13.37	13.39								
Salinity (ppt)	0.3	0.2	0.2	0.2								
TDS (g/L)	0.423	0.327	0.328	0.328								
Redox (mV)	24	32	32	32								

Notes: Sample collected @ 1345



WELL DEVELOPMENT/ PURGING LOG

WELL NUMBER: MW-8

DATE: 10/14/2013

PROJECT NAME: Tioga Castings

PROJECT NUMBER: 00266403.0000

SAMPLERS: AM/EM

A: Total Casing and Screen Length: 27.70ft

B: Casing Internal Diameter: 2in

C: Water Level Below Top of Casing: 21.12ft

D: Volume of Water in Casing: 1.1 gal

$$v = 0.0408 (B)^2 \times (A-C) = D$$

$$v = 0.0408 (\quad)^2 \times (\quad - \quad) = \quad \text{gal.}$$

Well I.D.	Vol. Gal./ft.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	1335	1340	1345	1350	1355							
Gallons	0	1	2	3	4							
Depth to Water (ft)	21.14	21.14	21.14	21.14	21.14							
pH	7.10	6.62	6.59	6.58	6.58							
Conductivity (mS/cm)	0.469	0.436	0.432	0.430	0.430							
Turbidity (ntu)	0.0	0.0	0.0	0.0	0.0							
Dissolved Oxygen (mg/l)	11.24	5.92	5.70	5.72	5.74							
Temperature (°C)	13.46	12.37	12.31	12.30	12.30							
Salinity (ppt)	0.2	0.2	0.2	0.2	0.2							
TDS (g/L)	0.303	0.284	0.281	0.279	0.279							
Redox (mV)	176	204	204	200	200							

Notes: sample collected @ 1355

Purged approximately 4 gallons

Appendix F

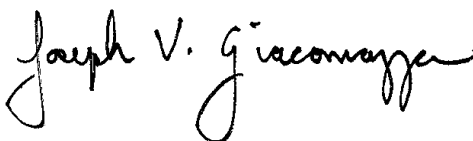
Analytical Data Packages

ANALYTICAL REPORT

Job Number: 480-47938-1

Job Description: NYSDEC-Standby TIOGA CASTINGS

For:
Malcolm Pirnie, Inc. Invoice to Arcadis
855 Route 146
Suite 210
Clifton Park, NY 12065
Attention: Mr. Jeremy Wyckoff



Approved for release.
Joe V Giacomazza
Project Administrator
10/24/2013 12:44 PM

Designee for
Sally J Hoffman, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9839
sally.hoffman@testamericainc.com
10/24/2013

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-47938-1

Receipt

The samples were received on 10/15/2013 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

Metals

No analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-47938-1	MW-5	Water	10/14/2013 1200	10/15/2013 0900
480-47938-2	MW-4	Water	10/14/2013 1210	10/15/2013 0900
480-47938-3	MW-3D	Water	10/14/2013 1245	10/15/2013 0900
480-47938-4	MW-2	Water	10/14/2013 1255	10/15/2013 0900
480-47938-5	MW-7	Water	10/14/2013 1345	10/15/2013 0900
480-47938-6	MW-8	Water	10/14/2013 1355	10/15/2013 0900
480-47938-7	MW-6	Water	10/14/2013 1440	10/15/2013 0900
480-47938-7MS	MW-6	Water	10/14/2013 1440	10/15/2013 0900
480-47938-7MSD	MW-6	Water	10/14/2013 1440	10/15/2013 0900
480-47938-8	MW-1R	Water	10/14/2013 1445	10/15/2013 0900
480-47938-9	MW-X	Water	10/14/2013 0000	10/15/2013 0900

EXECUTIVE SUMMARY - Detections

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-47938-1	MW-5					
Aluminum		0.12	J	0.20	mg/L	6010C
Barium		0.072		0.0020	mg/L	6010C
Calcium		55.1		0.50	mg/L	6010C
Iron		0.040	J	0.050	mg/L	6010C
Magnesium		9.6		0.20	mg/L	6010C
Manganese		0.0036		0.0030	mg/L	6010C
Potassium		3.9		0.50	mg/L	6010C
Sodium		20.5		1.0	mg/L	6010C
Zinc		0.0036	J	0.010	mg/L	6010C
480-47938-2	MW-4					
Barium		0.043		0.0020	mg/L	6010C
Calcium		46.0		0.50	mg/L	6010C
Iron		0.034	J	0.050	mg/L	6010C
Magnesium		8.8		0.20	mg/L	6010C
Manganese		0.0016	J	0.0030	mg/L	6010C
Potassium		1.1		0.50	mg/L	6010C
Sodium		15.7		1.0	mg/L	6010C
480-47938-3	MW-3D					
Aluminum		0.31		0.20	mg/L	6010C
Barium		0.046		0.0020	mg/L	6010C
Calcium		45.8		0.50	mg/L	6010C
Iron		0.39		0.050	mg/L	6010C
Magnesium		8.8		0.20	mg/L	6010C
Manganese		0.021		0.0030	mg/L	6010C
Potassium		1.4		0.50	mg/L	6010C
Sodium		15.7		1.0	mg/L	6010C
Zinc		0.0036	J	0.010	mg/L	6010C

EXECUTIVE SUMMARY - Detections

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-47938-4	MW-2					
Aluminum		2.5		0.20	mg/L	6010C
Barium		0.21		0.0020	mg/L	6010C
Cadmium		0.0013		0.0010	mg/L	6010C
Calcium		81.8		0.50	mg/L	6010C
Chromium		0.0065		0.0040	mg/L	6010C
Cobalt		0.0015	J	0.0040	mg/L	6010C
Copper		0.0073	J	0.010	mg/L	6010C
Iron		3.9		0.050	mg/L	6010C
Magnesium		14.2		0.20	mg/L	6010C
Manganese		2.8		0.0030	mg/L	6010C
Nickel		0.0080	J	0.010	mg/L	6010C
Potassium		7.4		0.50	mg/L	6010C
Sodium		74.2		1.0	mg/L	6010C
Vanadium		0.0039	J	0.0050	mg/L	6010C
Zinc		0.019		0.010	mg/L	6010C
480-47938-5	MW-7					
Aluminum		0.10	J	0.20	mg/L	6010C
Barium		0.10		0.0020	mg/L	6010C
Calcium		64.0		0.50	mg/L	6010C
Copper		0.0051	J	0.010	mg/L	6010C
Iron		0.66		0.050	mg/L	6010C
Magnesium		10.3		0.20	mg/L	6010C
Manganese		0.34		0.0030	mg/L	6010C
Nickel		0.0021	J	0.010	mg/L	6010C
Potassium		4.4		0.50	mg/L	6010C
Sodium		22.1		1.0	mg/L	6010C
Zinc		0.0073	J	0.010	mg/L	6010C
480-47938-6	MW-8					
Aluminum		0.13	J	0.20	mg/L	6010C
Barium		0.067		0.0020	mg/L	6010C
Calcium		49.2		0.50	mg/L	6010C
Iron		0.19		0.050	mg/L	6010C
Magnesium		8.3		0.20	mg/L	6010C
Manganese		0.0085		0.0030	mg/L	6010C
Potassium		2.6		0.50	mg/L	6010C
Sodium		18.6		1.0	mg/L	6010C
Zinc		0.0033	J	0.010	mg/L	6010C

EXECUTIVE SUMMARY - Detections

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-47938-7	MW-6					
Aluminum		0.31		0.20	mg/L	6010C
Barium		0.062		0.0020	mg/L	6010C
Calcium		54.2		0.50	mg/L	6010C
Iron		0.33		0.050	mg/L	6010C
Magnesium		10.1		0.20	mg/L	6010C
Manganese		0.015		0.0030	mg/L	6010C
Potassium		2.0		0.50	mg/L	6010C
Sodium		22.4		1.0	mg/L	6010C
Zinc		0.0028	J	0.010	mg/L	6010C
480-47938-8	MW-1R					
Aluminum		0.93		0.20	mg/L	6010C
Barium		0.058		0.0020	mg/L	6010C
Calcium		58.7		0.50	mg/L	6010C
Chromium		0.0019	J	0.0040	mg/L	6010C
Iron		1.0		0.050	mg/L	6010C
Magnesium		11.9		0.20	mg/L	6010C
Manganese		0.061		0.0030	mg/L	6010C
Potassium		2.0		0.50	mg/L	6010C
Sodium		28.3		1.0	mg/L	6010C
Vanadium		0.0015	J	0.0050	mg/L	6010C
Zinc		0.0052	J	0.010	mg/L	6010C
480-47938-9	MW-X					
Aluminum		0.34		0.20	mg/L	6010C
Barium		0.063		0.0020	mg/L	6010C
Calcium		55.1		0.50	mg/L	6010C
Iron		0.36		0.050	mg/L	6010C
Magnesium		10.2		0.20	mg/L	6010C
Manganese		0.017		0.0030	mg/L	6010C
Potassium		2.0		0.50	mg/L	6010C
Sodium		22.5		1.0	mg/L	6010C
Zinc		0.0022	J	0.010	mg/L	6010C

METHOD SUMMARY

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL BUF	SW846 6010C	
Preparation, Total Metals	TAL BUF		SW846 3005A
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

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

METHOD / ANALYST SUMMARY

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Method	Analyst	Analyst ID
SW846 6010C	Hanks, Lisa M	LMH
SW846 7470A	Kacalski, Jason R	JRK

Analytical Data

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Client Sample ID: MW-5

Lab Sample ID: 480-47938-1

Client Matrix: Water

Date Sampled: 10/14/2013 1200

Date Received: 10/15/2013 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1656			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	0.12	J	0.060	0.20
Antimony	0.020	U	0.0068	0.020
Arsenic	0.010	U	0.0056	0.010
Barium	0.072		0.00070	0.0020
Beryllium	0.0020	U	0.00030	0.0020
Cadmium	0.0010	U	0.00050	0.0010
Calcium	55.1		0.10	0.50
Chromium	0.0040	U	0.0010	0.0040
Cobalt	0.0040	U	0.00063	0.0040
Copper	0.010	U	0.0016	0.010
Iron	0.040	J	0.019	0.050
Lead	0.0050	U	0.0030	0.0050
Magnesium	9.6		0.043	0.20
Manganese	0.0036		0.00040	0.0030
Nickel	0.010	U	0.0013	0.010
Potassium	3.9		0.10	0.50
Selenium	0.015	U	0.0087	0.015
Silver	0.0030	U	0.0017	0.0030
Sodium	20.5		0.32	1.0
Thallium	0.020	U	0.010	0.020
Vanadium	0.0050	U	0.0015	0.0050
Zinc	0.0036	J	0.0015	0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-145371	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-145279	Lab File ID:	H10163W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	10/16/2013 1251			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0828				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.00020	U	0.00012	0.00020

Analytical Data

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Client Sample ID: MW-4

Lab Sample ID: 480-47938-2

Client Matrix: Water

Date Sampled: 10/14/2013 1210

Date Received: 10/15/2013 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1658			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	0.20	U	0.060	0.20
Antimony	0.020	U	0.0068	0.020
Arsenic	0.010	U	0.0056	0.010
Barium	0.043		0.00070	0.0020
Beryllium	0.0020	U	0.00030	0.0020
Cadmium	0.0010	U	0.00050	0.0010
Calcium	46.0		0.10	0.50
Chromium	0.0040	U	0.0010	0.0040
Cobalt	0.0040	U	0.00063	0.0040
Copper	0.010	U	0.0016	0.010
Iron	0.034	J	0.019	0.050
Lead	0.0050	U	0.0030	0.0050
Magnesium	8.8		0.043	0.20
Manganese	0.0016	J	0.00040	0.0030
Nickel	0.010	U	0.0013	0.010
Potassium	1.1		0.10	0.50
Selenium	0.015	U	0.0087	0.015
Silver	0.0030	U	0.0017	0.0030
Sodium	15.7		0.32	1.0
Thallium	0.020	U	0.010	0.020
Vanadium	0.0050	U	0.0015	0.0050
Zinc	0.010	U	0.0015	0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-145371	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-145279	Lab File ID:	H10163W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	10/16/2013 1252			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0828				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.00020	U	0.00012	0.00020

Analytical Data

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Client Sample ID: MW-3D

Lab Sample ID: 480-47938-3

Client Matrix: Water

Date Sampled: 10/14/2013 1245

Date Received: 10/15/2013 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1700			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	0.31		0.060	0.20
Antimony	0.020	U	0.0068	0.020
Arsenic	0.010	U	0.0056	0.010
Barium	0.046		0.00070	0.0020
Beryllium	0.0020	U	0.00030	0.0020
Cadmium	0.0010	U	0.00050	0.0010
Calcium	45.8		0.10	0.50
Chromium	0.0040	U	0.0010	0.0040
Cobalt	0.0040	U	0.00063	0.0040
Copper	0.010	U	0.0016	0.010
Iron	0.39		0.019	0.050
Lead	0.0050	U	0.0030	0.0050
Magnesium	8.8		0.043	0.20
Manganese	0.021		0.00040	0.0030
Nickel	0.010	U	0.0013	0.010
Potassium	1.4		0.10	0.50
Selenium	0.015	U	0.0087	0.015
Silver	0.0030	U	0.0017	0.0030
Sodium	15.7		0.32	1.0
Thallium	0.020	U	0.010	0.020
Vanadium	0.0050	U	0.0015	0.0050
Zinc	0.0036	J	0.0015	0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-145371	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-145279	Lab File ID:	H10163W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	10/16/2013 1257			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0828				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.00020	U	0.00012	0.00020

Analytical Data

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Client Sample ID: MW-2

Lab Sample ID: 480-47938-4

Client Matrix: Water

Date Sampled: 10/14/2013 1255

Date Received: 10/15/2013 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1703			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	2.5		0.060	0.20
Antimony	0.020	U	0.0068	0.020
Arsenic	0.010	U	0.0056	0.010
Barium	0.21		0.00070	0.0020
Beryllium	0.0020	U	0.00030	0.0020
Cadmium	0.0013		0.00050	0.0010
Calcium	81.8		0.10	0.50
Chromium	0.0065		0.0010	0.0040
Cobalt	0.0015	J	0.00063	0.0040
Copper	0.0073	J	0.0016	0.010
Iron	3.9		0.019	0.050
Lead	0.0050	U	0.0030	0.0050
Magnesium	14.2		0.043	0.20
Manganese	2.8		0.00040	0.0030
Nickel	0.0080	J	0.0013	0.010
Potassium	7.4		0.10	0.50
Selenium	0.015	U	0.0087	0.015
Silver	0.0030	U	0.0017	0.0030
Sodium	74.2		0.32	1.0
Thallium	0.020	U	0.010	0.020
Vanadium	0.0039	J	0.0015	0.0050
Zinc	0.019		0.0015	0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-145371	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-145279	Lab File ID:	H10163W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	10/16/2013 1259			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0828				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.00020	U	0.00012	0.00020

Analytical Data

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Client Sample ID: MW-7

Lab Sample ID: 480-47938-5

Client Matrix: Water

Date Sampled: 10/14/2013 1345

Date Received: 10/15/2013 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1705			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	0.10	J	0.060	0.20
Antimony	0.020	U	0.0068	0.020
Arsenic	0.010	U	0.0056	0.010
Barium	0.10		0.00070	0.0020
Beryllium	0.0020	U	0.00030	0.0020
Cadmium	0.0010	U	0.00050	0.0010
Calcium	64.0		0.10	0.50
Chromium	0.0040	U	0.0010	0.0040
Cobalt	0.0040	U	0.00063	0.0040
Copper	0.0051	J	0.0016	0.010
Iron	0.66		0.019	0.050
Lead	0.0050	U	0.0030	0.0050
Magnesium	10.3		0.043	0.20
Manganese	0.34		0.00040	0.0030
Nickel	0.0021	J	0.0013	0.010
Potassium	4.4		0.10	0.50
Selenium	0.015	U	0.0087	0.015
Silver	0.0030	U	0.0017	0.0030
Sodium	22.1		0.32	1.0
Thallium	0.020	U	0.010	0.020
Vanadium	0.0050	U	0.0015	0.0050
Zinc	0.0073	J	0.0015	0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-145371	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-145279	Lab File ID:	H10163W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	10/16/2013 1301			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0828				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.00020	U	0.00012	0.00020

Analytical Data

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Client Sample ID: MW-8

Lab Sample ID: 480-47938-6

Client Matrix: Water

Date Sampled: 10/14/2013 1355

Date Received: 10/15/2013 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1707			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	0.13	J	0.060	0.20
Antimony	0.020	U	0.0068	0.020
Arsenic	0.010	U	0.0056	0.010
Barium	0.067		0.00070	0.0020
Beryllium	0.0020	U	0.00030	0.0020
Cadmium	0.0010	U	0.00050	0.0010
Calcium	49.2		0.10	0.50
Chromium	0.0040	U	0.0010	0.0040
Cobalt	0.0040	U	0.00063	0.0040
Copper	0.010	U	0.0016	0.010
Iron	0.19		0.019	0.050
Lead	0.0050	U	0.0030	0.0050
Magnesium	8.3		0.043	0.20
Manganese	0.0085		0.00040	0.0030
Nickel	0.010	U	0.0013	0.010
Potassium	2.6		0.10	0.50
Selenium	0.015	U	0.0087	0.015
Silver	0.0030	U	0.0017	0.0030
Sodium	18.6		0.32	1.0
Thallium	0.020	U	0.010	0.020
Vanadium	0.0050	U	0.0015	0.0050
Zinc	0.0033	J	0.0015	0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-145371	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-145279	Lab File ID:	H10163W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	10/16/2013 1303			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0828				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.00020	U	0.00012	0.00020

Analytical Data

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Client Sample ID: MW-6

Lab Sample ID: 480-47938-7

Client Matrix: Water

Date Sampled: 10/14/2013 1440

Date Received: 10/15/2013 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1717			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	0.31		0.060	0.20
Antimony	0.020	U	0.0068	0.020
Arsenic	0.010	U	0.0056	0.010
Barium	0.062		0.00070	0.0020
Beryllium	0.0020	U	0.00030	0.0020
Cadmium	0.0010	U	0.00050	0.0010
Calcium	54.2		0.10	0.50
Chromium	0.0040	U	0.0010	0.0040
Cobalt	0.0040	U	0.00063	0.0040
Copper	0.010	U	0.0016	0.010
Iron	0.33		0.019	0.050
Lead	0.0050	U	0.0030	0.0050
Magnesium	10.1		0.043	0.20
Manganese	0.015		0.00040	0.0030
Nickel	0.010	U	0.0013	0.010
Potassium	2.0		0.10	0.50
Selenium	0.015	U	0.0087	0.015
Silver	0.0030	U	0.0017	0.0030
Sodium	22.4		0.32	1.0
Thallium	0.020	U	0.010	0.020
Vanadium	0.0050	U	0.0015	0.0050
Zinc	0.0028	J	0.0015	0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-145371	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-145279	Lab File ID:	H10163W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	10/16/2013 1304			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0828				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.00020	U	0.00012	0.00020

Analytical Data

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Client Sample ID: MW-1R

Lab Sample ID: 480-47938-8

Client Matrix: Water

Date Sampled: 10/14/2013 1445

Date Received: 10/15/2013 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1729			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	0.93		0.060	0.20
Antimony	0.020	U	0.0068	0.020
Arsenic	0.010	U	0.0056	0.010
Barium	0.058		0.00070	0.0020
Beryllium	0.0020	U	0.00030	0.0020
Cadmium	0.0010	U	0.00050	0.0010
Calcium	58.7		0.10	0.50
Chromium	0.0019	J	0.0010	0.0040
Cobalt	0.0040	U	0.00063	0.0040
Copper	0.010	U	0.0016	0.010
Iron	1.0		0.019	0.050
Lead	0.0050	U	0.0030	0.0050
Magnesium	11.9		0.043	0.20
Manganese	0.061		0.00040	0.0030
Nickel	0.010	U	0.0013	0.010
Potassium	2.0		0.10	0.50
Selenium	0.015	U	0.0087	0.015
Silver	0.0030	U	0.0017	0.0030
Sodium	28.3		0.32	1.0
Thallium	0.020	U	0.010	0.020
Vanadium	0.0015	J	0.0015	0.0050
Zinc	0.0052	J	0.0015	0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-145371	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-145279	Lab File ID:	H10163W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	10/16/2013 1311			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0828				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.00020	U	0.00012	0.00020

Analytical Data

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Client Sample ID: MW-X

Lab Sample ID: 480-47938-9

Date Sampled: 10/14/2013 0000

Client Matrix: Water

Date Received: 10/15/2013 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1731			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	0.34		0.060	0.20
Antimony	0.020	U	0.0068	0.020
Arsenic	0.010	U	0.0056	0.010
Barium	0.063		0.00070	0.0020
Beryllium	0.0020	U	0.00030	0.0020
Cadmium	0.0010	U	0.00050	0.0010
Calcium	55.1		0.10	0.50
Chromium	0.0040	U	0.0010	0.0040
Cobalt	0.0040	U	0.00063	0.0040
Copper	0.010	U	0.0016	0.010
Iron	0.36		0.019	0.050
Lead	0.0050	U	0.0030	0.0050
Magnesium	10.2		0.043	0.20
Manganese	0.017		0.00040	0.0030
Nickel	0.010	U	0.0013	0.010
Potassium	2.0		0.10	0.50
Selenium	0.015	U	0.0087	0.015
Silver	0.0030	U	0.0017	0.0030
Sodium	22.5		0.32	1.0
Thallium	0.020	U	0.010	0.020
Vanadium	0.0050	U	0.0015	0.0050
Zinc	0.0022	J	0.0015	0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-145371	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-145279	Lab File ID:	H10163W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	10/16/2013 1313			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0828				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.00020	U	0.00012	0.00020

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Method Blank - Batch: 480-145224

Method: 6010C

Preparation: 3005A

Lab Sample ID: MB 480-145224/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 10/18/2013 1651
 Prep Date: 10/16/2013 0845
 Leach Date: N/A

Analysis Batch: 480-146309
 Prep Batch: 480-145224
 Leach Batch: N/A
 Units: mg/L

Instrument ID: ICAP1
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Aluminum	0.20	U	0.060	0.20
Antimony	0.020	U	0.0068	0.020
Arsenic	0.010	U	0.0056	0.010
Barium	0.0020	U	0.00070	0.0020
Beryllium	0.0020	U	0.00030	0.0020
Cadmium	0.0010	U	0.00050	0.0010
Calcium	0.50	U	0.10	0.50
Chromium	0.0040	U	0.0010	0.0040
Cobalt	0.0040	U	0.00063	0.0040
Copper	0.010	U	0.0016	0.010
Iron	0.050	U	0.019	0.050
Lead	0.0050	U	0.0030	0.0050
Magnesium	0.20	U	0.043	0.20
Manganese	0.0030	U	0.00040	0.0030
Nickel	0.010	U	0.0013	0.010
Potassium	0.50	U	0.10	0.50
Selenium	0.015	U	0.0087	0.015
Silver	0.0030	U	0.0017	0.0030
Sodium	1.0	U	0.32	1.0
Thallium	0.020	U	0.010	0.020
Vanadium	0.0050	U	0.0015	0.0050
Zinc	0.010	U	0.0015	0.010

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Lab Control Sample - Batch: 480-145224

Method: 6010C

Preparation: 3005A

Lab Sample ID:	LCS 480-145224/2-A	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1653	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	10.0	10.36	104	80 - 120	
Antimony	0.200	0.213	107	80 - 120	
Arsenic	0.200	0.207	104	80 - 120	
Barium	0.200	0.205	102	80 - 120	
Beryllium	0.200	0.210	105	80 - 120	
Cadmium	0.200	0.207	104	80 - 120	
Calcium	10.0	9.95	100	80 - 120	
Chromium	0.200	0.198	99	80 - 120	
Cobalt	0.200	0.204	102	80 - 120	
Copper	0.200	0.198	99	80 - 120	
Iron	10.0	10.39	104	80 - 120	
Lead	0.200	0.205	103	80 - 120	
Magnesium	10.0	10.30	103	80 - 120	
Manganese	0.200	0.207	103	80 - 120	
Nickel	0.200	0.204	102	80 - 120	
Potassium	10.0	9.88	99	80 - 120	
Selenium	0.200	0.206	103	80 - 120	
Silver	0.0500	0.0494	99	80 - 120	
Sodium	10.0	9.81	98	80 - 120	
Thallium	0.200	0.210	105	80 - 120	
Vanadium	0.200	0.193	97	80 - 120	
Zinc	0.200	0.193	97	80 - 120	

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Post Digestion Spike - Batch: 480-145224

Method: 6010C

Preparation: 3005A

Lab Sample ID:	480-47938-7	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1722	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	0.31		10.0	10.97	107	75 - 125	
Antimony	0.020	U	0.200	0.212	106	75 - 125	
Arsenic	0.010	U	0.200	0.211	105	75 - 125	
Barium	0.062		0.200	0.271	104	75 - 125	
Beryllium	0.0020	U	0.200	0.212	106	75 - 125	
Cadmium	0.0010	U	0.200	0.208	104	75 - 125	
Calcium	54.2		10.0	62.93	87	75 - 125	
Chromium	0.0040	U	0.200	0.202	101	75 - 125	
Cobalt	0.0040	U	0.200	0.206	103	75 - 125	
Copper	0.010	U	0.200	0.202	101	75 - 125	
Iron	0.33		10.0	10.69	104	75 - 125	
Lead	0.0050	U	0.200	0.207	104	75 - 125	
Magnesium	10.1		10.0	20.19	101	75 - 125	
Manganese	0.015		0.200	0.221	103	75 - 125	
Nickel	0.010	U	0.200	0.206	103	75 - 125	
Potassium	2.0		10.0	12.75	107	75 - 125	
Selenium	0.015	U	0.200	0.211	105	75 - 125	
Silver	0.0030	U	0.0500	0.0492	98	75 - 125	
Sodium	22.4		10.0	32.98	105	75 - 125	
Thallium	0.020	U	0.200	0.212	106	75 - 125	
Vanadium	0.0050	U	0.200	0.200	100	75 - 125	
Zinc	0.0028	J	0.200	0.197	97	75 - 125	

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-145224**

**Method: 6010C
Preparation: 3005A**

MS Lab Sample ID:	480-47938-7	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1724			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				
Leach Date:	N/A				

MSD Lab Sample ID:	480-47938-7	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1727			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aluminum	102	102	75 - 125	0	20		
Antimony	105	104	75 - 125	0	20		
Arsenic	104	104	75 - 125	0	20		
Barium	99	98	75 - 125	0	20		
Beryllium	104	104	75 - 125	0	20		
Cadmium	102	101	75 - 125	0	20		
Calcium	95	99	75 - 125	1	20	4	4
Chromium	96	96	75 - 125	0	20		
Cobalt	100	100	75 - 125	0	20		
Copper	97	97	75 - 125	0	20		
Iron	102	102	75 - 125	0	20		
Lead	100	101	75 - 125	1	20		
Magnesium	100	100	75 - 125	0	20		
Manganese	100	100	75 - 125	0	20		
Nickel	101	101	75 - 125	0	20		
Potassium	102	102	75 - 125	0	20		
Selenium	104	103	75 - 125	1	20		
Silver	97	100	75 - 125	3	20		
Sodium	101	102	75 - 125	0	20		
Thallium	102	103	75 - 125	1	20		
Vanadium	94	94	75 - 125	0	20		
Zinc	92	92	75 - 125	0	20		

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-145224**

**Method: 6010C
Preparation: 3005A**

MS Lab Sample ID: 480-47938-7 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/18/2013 1724
Prep Date: 10/16/2013 0845
Leach Date: N/A

MSD Lab Sample ID: 480-47938-7
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/18/2013 1727
Prep Date: 10/16/2013 0845
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Aluminum	0.31		10.0	10.0	10.49		10.47	
Antimony	0.020	U	0.200	0.200	0.210		0.209	
Arsenic	0.010	U	0.200	0.200	0.208		0.208	
Barium	0.062		0.200	0.200	0.260		0.259	
Beryllium	0.0020	U	0.200	0.200	0.207		0.208	
Cadmium	0.0010	U	0.200	0.200	0.204		0.203	
Calcium	54.2		10.0	10.0	63.71	4	64.11	4
Chromium	0.0040	U	0.200	0.200	0.193		0.193	
Cobalt	0.0040	U	0.200	0.200	0.200		0.200	
Copper	0.010	U	0.200	0.200	0.194		0.194	
Iron	0.33		10.0	10.0	10.49		10.52	
Lead	0.0050	U	0.200	0.200	0.200		0.202	
Magnesium	10.1		10.0	10.0	20.09		20.04	
Manganese	0.015		0.200	0.200	0.215		0.215	
Nickel	0.010	U	0.200	0.200	0.202		0.201	
Potassium	2.0		10.0	10.0	12.18		12.22	
Selenium	0.015	U	0.200	0.200	0.207		0.206	
Silver	0.0030	U	0.0500	0.0500	0.0485		0.0498	
Sodium	22.4		10.0	10.0	32.58		32.66	
Thallium	0.020	U	0.200	0.200	0.204		0.206	
Vanadium	0.0050	U	0.200	0.200	0.188		0.188	
Zinc	0.0028	J	0.200	0.200	0.187		0.187	

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Serial Dilution - Batch: 480-145224

**Method: 6010C
Preparation: 3005A**

Lab Sample ID:	480-47938-7	Analysis Batch:	480-146309	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-145224	Lab File ID:	N/A
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/18/2013 1719	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0845				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Aluminum	0.31		0.394	NC	10	J
Antimony	0.020	U	0.10	NC	10	U
Arsenic	0.010	U	0.050	NC	10	U
Barium	0.062		0.0642	2.8	10	
Beryllium	0.0020	U	0.010	NC	10	U
Cadmium	0.0010	U	0.0050	NC	10	U
Calcium	54.2		54.67	0.83	10	
Chromium	0.0040	U	0.020	NC	10	U
Cobalt	0.0040	U	0.020	NC	10	U
Copper	0.010	U	0.050	NC	10	U
Iron	0.33		0.307	NC	10	
Lead	0.0050	U	0.025	NC	10	U
Magnesium	10.1		10.15	0.58	10	
Manganese	0.015		0.0153	0.07	10	
Nickel	0.010	U	0.050	NC	10	U
Potassium	2.0		1.82	NC	10	J
Selenium	0.015	U	0.075	NC	10	U
Silver	0.0030	U	0.015	NC	10	U
Sodium	22.4		21.64	3.6	10	
Thallium	0.020	U	0.10	NC	10	U
Vanadium	0.0050	U	0.025	NC	10	U
Zinc	0.0028	J	0.050	NC	10	U

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Method Blank - Batch: 480-145279

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-145279/1-A	Analysis Batch:	480-145371	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-145279	Lab File ID:	H10163W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	10/16/2013 1244	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0828				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.00020	U	0.00012	0.00020

Lab Control Sample - Batch: 480-145279

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-145279/2-A	Analysis Batch:	480-145371	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-145279	Lab File ID:	H10163W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	10/16/2013 1246	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0828				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00667	0.00653	98	80 - 120	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-145279

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	480-47938-7	Analysis Batch:	480-145371	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-145279	Lab File ID:	H10163W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	10/16/2013 1308			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0828				
Leach Date:	N/A				

MSD Lab Sample ID:	480-47938-7	Analysis Batch:	480-145371	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-145279	Lab File ID:	H10163W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	10/16/2013 1309			Final Weight/Volume:	50 mL
Prep Date:	10/16/2013 0828				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	96	98	75 - 125	2	20		

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-145279**

**Method: 7470A
Preparation: 7470A**

MS Lab Sample ID: 480-47938-7 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/16/2013 1308
Prep Date: 10/16/2013 0828
Leach Date: N/A

MSD Lab Sample ID: 480-47938-7
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/16/2013 1309
Prep Date: 10/16/2013 0828
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.00020 U	0.00667	0.00667	0.00638	0.00652

Serial Dilution - Batch: 480-145279

**Method: 7470A
Preparation: 7470A**

Lab Sample ID: 480-47938-7
Client Matrix: Water
Dilution: 5.0
Analysis Date: 10/16/2013 1306
Prep Date: 10/16/2013 0828
Leach Date: N/A

Analysis Batch: 480-145371
Prep Batch: 480-145279
Leach Batch: N/A
Units: mg/L

Instrument ID: LEEMAN2
Lab File ID: H10163W1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury	0.00020 U	0.0010	NC	10	U

DATA REPORTING QUALIFIERS

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Lab Section	Qualifier	Description
Metals	U	Indicates analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Sample result is greater than the MDL but below the CRDL

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-145224					
LCS 480-145224/2-A	Lab Control Sample	T	Water	3005A	
MB 480-145224/1-A	Method Blank	T	Water	3005A	
480-47938-1	MW-5	T	Water	3005A	
480-47938-2	MW-4	T	Water	3005A	
480-47938-3	MW-3D	T	Water	3005A	
480-47938-4	MW-2	T	Water	3005A	
480-47938-5	MW-7	T	Water	3005A	
480-47938-6	MW-8	T	Water	3005A	
480-47938-7	MW-6	T	Water	3005A	
480-47938-7MS	Matrix Spike	T	Water	3005A	
480-47938-7MSD	Matrix Spike Duplicate	T	Water	3005A	
480-47938-8	MW-1R	T	Water	3005A	
480-47938-9	MW-X	T	Water	3005A	
Prep Batch: 480-145279					
LCS 480-145279/2-A	Lab Control Sample	T	Water	7470A	
MB 480-145279/1-A	Method Blank	T	Water	7470A	
480-47938-1	MW-5	T	Water	7470A	
480-47938-2	MW-4	T	Water	7470A	
480-47938-3	MW-3D	T	Water	7470A	
480-47938-4	MW-2	T	Water	7470A	
480-47938-5	MW-7	T	Water	7470A	
480-47938-6	MW-8	T	Water	7470A	
480-47938-7	MW-6	T	Water	7470A	
480-47938-7MS	Matrix Spike	T	Water	7470A	
480-47938-7MSD	Matrix Spike Duplicate	T	Water	7470A	
480-47938-8	MW-1R	T	Water	7470A	
480-47938-9	MW-X	T	Water	7470A	
Analysis Batch:480-145371					
LCS 480-145279/2-A	Lab Control Sample	T	Water	7470A	480-145279
MB 480-145279/1-A	Method Blank	T	Water	7470A	480-145279
480-47938-1	MW-5	T	Water	7470A	480-145279
480-47938-2	MW-4	T	Water	7470A	480-145279
480-47938-3	MW-3D	T	Water	7470A	480-145279
480-47938-4	MW-2	T	Water	7470A	480-145279
480-47938-5	MW-7	T	Water	7470A	480-145279
480-47938-6	MW-8	T	Water	7470A	480-145279
480-47938-7	MW-6	T	Water	7470A	480-145279
480-47938-7MS	Matrix Spike	T	Water	7470A	480-145279
480-47938-7MSD	Matrix Spike Duplicate	T	Water	7470A	480-145279
480-47938-8	MW-1R	T	Water	7470A	480-145279
480-47938-9	MW-X	T	Water	7470A	480-145279

TestAmerica Buffalo

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:480-146309					
LCS 480-145224/2-A	Lab Control Sample	T	Water	6010C	480-145224
MB 480-145224/1-A	Method Blank	T	Water	6010C	480-145224
480-47938-1	MW-5	T	Water	6010C	480-145224
480-47938-2	MW-4	T	Water	6010C	480-145224
480-47938-3	MW-3D	T	Water	6010C	480-145224
480-47938-4	MW-2	T	Water	6010C	480-145224
480-47938-5	MW-7	T	Water	6010C	480-145224
480-47938-6	MW-8	T	Water	6010C	480-145224
480-47938-7	MW-6	T	Water	6010C	480-145224
480-47938-7MS	Matrix Spike	T	Water	6010C	480-145224
480-47938-7MSD	Matrix Spike Duplicate	T	Water	6010C	480-145224
480-47938-8	MW-1R	T	Water	6010C	480-145224
480-47938-9	MW-X	T	Water	6010C	480-145224

Report Basis

T = Total

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Laboratory Chronicle

Lab ID: 480-47938-1

Client ID: MW-5

Sample Date/Time: 10/14/2013 12:00

Received Date/Time: 10/15/2013 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-47938-A-1-A		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	480-47938-A-1-A		480-146309	480-145224	10/18/2013 16:56	1	TAL BUF	LMH
P:7470A	480-47938-A-1-B		480-145371	480-145279	10/16/2013 08:28	1	TAL BUF	JRK
A:7470A	480-47938-A-1-B		480-145371	480-145279	10/16/2013 12:51	1	TAL BUF	JRK

Lab ID: 480-47938-2

Client ID: MW-4

Sample Date/Time: 10/14/2013 12:10

Received Date/Time: 10/15/2013 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-47938-A-2-A		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	480-47938-A-2-A		480-146309	480-145224	10/18/2013 16:58	1	TAL BUF	LMH
P:7470A	480-47938-A-2-B		480-145371	480-145279	10/16/2013 08:28	1	TAL BUF	JRK
A:7470A	480-47938-A-2-B		480-145371	480-145279	10/16/2013 12:52	1	TAL BUF	JRK

Lab ID: 480-47938-3

Client ID: MW-3D

Sample Date/Time: 10/14/2013 12:45

Received Date/Time: 10/15/2013 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-47938-A-3-A		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	480-47938-A-3-A		480-146309	480-145224	10/18/2013 17:00	1	TAL BUF	LMH
P:7470A	480-47938-A-3-B		480-145371	480-145279	10/16/2013 08:28	1	TAL BUF	JRK
A:7470A	480-47938-A-3-B		480-145371	480-145279	10/16/2013 12:57	1	TAL BUF	JRK

Lab ID: 480-47938-4

Client ID: MW-2

Sample Date/Time: 10/14/2013 12:55

Received Date/Time: 10/15/2013 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-47938-A-4-A		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	480-47938-A-4-A		480-146309	480-145224	10/18/2013 17:03	1	TAL BUF	LMH
P:7470A	480-47938-A-4-B		480-145371	480-145279	10/16/2013 08:28	1	TAL BUF	JRK
A:7470A	480-47938-A-4-B		480-145371	480-145279	10/16/2013 12:59	1	TAL BUF	JRK

Lab ID: 480-47938-5

Client ID: MW-7

Sample Date/Time: 10/14/2013 13:45

Received Date/Time: 10/15/2013 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-47938-A-5-A		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	480-47938-A-5-A		480-146309	480-145224	10/18/2013 17:05	1	TAL BUF	LMH
P:7470A	480-47938-A-5-B		480-145371	480-145279	10/16/2013 08:28	1	TAL BUF	JRK
A:7470A	480-47938-A-5-B		480-145371	480-145279	10/16/2013 13:01	1	TAL BUF	JRK

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Laboratory Chronicle

Lab ID: 480-47938-6

Client ID: MW-8

Sample Date/Time: 10/14/2013 13:55

Received Date/Time: 10/15/2013 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-47938-A-6-A		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	480-47938-A-6-A		480-146309	480-145224	10/18/2013 17:07	1	TAL BUF	LMH
P:7470A	480-47938-A-6-B		480-145371	480-145279	10/16/2013 08:28	1	TAL BUF	JRK
A:7470A	480-47938-A-6-B		480-145371	480-145279	10/16/2013 13:03	1	TAL BUF	JRK

Lab ID: 480-47938-7

Client ID: MW-6

Sample Date/Time: 10/14/2013 14:40

Received Date/Time: 10/15/2013 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-47938-A-7-A		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	480-47938-A-7-A		480-146309	480-145224	10/18/2013 17:17	1	TAL BUF	LMH
P:7470A	480-47938-A-7-D		480-145371	480-145279	10/16/2013 08:28	1	TAL BUF	JRK
A:7470A	480-47938-A-7-D		480-145371	480-145279	10/16/2013 13:04	1	TAL BUF	JRK

Lab ID: 480-47938-7

Client ID: MW-6

Sample Date/Time: 10/14/2013 14:40

Received Date/Time: 10/15/2013 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-47938-A-7-B MS		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	480-47938-A-7-B MS		480-146309	480-145224	10/18/2013 17:24	1	TAL BUF	LMH
P:7470A	480-47938-A-7-E MS		480-145371	480-145279	10/16/2013 08:28	1	TAL BUF	JRK
A:7470A	480-47938-A-7-E MS		480-145371	480-145279	10/16/2013 13:08	1	TAL BUF	JRK

Lab ID: 480-47938-7

Client ID: MW-6

Sample Date/Time: 10/14/2013 14:40

Received Date/Time: 10/15/2013 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-47938-A-7-C MSD		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	480-47938-A-7-C MSD		480-146309	480-145224	10/18/2013 17:27	1	TAL BUF	LMH
P:7470A	480-47938-A-7-F MSD		480-145371	480-145279	10/16/2013 08:28	1	TAL BUF	JRK
A:7470A	480-47938-A-7-F MSD		480-145371	480-145279	10/16/2013 13:09	1	TAL BUF	JRK

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Laboratory Chronicle

Lab ID: 480-47938-7 SD

Client ID: MW-6

Sample Date/Time: 10/14/2013 14:40

Received Date/Time: 10/15/2013 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-47938-A-7-A SD ^5		480-146309	480-145224	10/16/2013 08:45	5	TAL BUF	NMD2
A:6010C	480-47938-A-7-A SD ^5		480-146309	480-145224	10/18/2013 17:19	5	TAL BUF	LMH
P:3005A	480-47938-A-7-A PDS		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	480-47938-A-7-A PDS		480-146309	480-145224	10/18/2013 17:22	1	TAL BUF	LMH
P:7470A	480-47938-A-7-D SD ^5		480-145371	480-145279	10/16/2013 08:28	5	TAL BUF	JRK
A:7470A	480-47938-A-7-D SD ^5		480-145371	480-145279	10/16/2013 13:06	5	TAL BUF	JRK

Lab ID: 480-47938-8

Client ID: MW-1R

Sample Date/Time: 10/14/2013 14:45

Received Date/Time: 10/15/2013 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-47938-A-8-A		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	480-47938-A-8-A		480-146309	480-145224	10/18/2013 17:29	1	TAL BUF	LMH
P:7470A	480-47938-A-8-B		480-145371	480-145279	10/16/2013 08:28	1	TAL BUF	JRK
A:7470A	480-47938-A-8-B		480-145371	480-145279	10/16/2013 13:11	1	TAL BUF	JRK

Lab ID: 480-47938-9

Client ID: MW-X

Sample Date/Time: 10/14/2013 00:00

Received Date/Time: 10/15/2013 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-47938-A-9-A		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	480-47938-A-9-A		480-146309	480-145224	10/18/2013 17:31	1	TAL BUF	LMH
P:7470A	480-47938-A-9-B		480-145371	480-145279	10/16/2013 08:28	1	TAL BUF	JRK
A:7470A	480-47938-A-9-B		480-145371	480-145279	10/16/2013 13:13	1	TAL BUF	JRK

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:3005A	MB 480-145224/1-A		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	MB 480-145224/1-A		480-146309	480-145224	10/18/2013 16:51	1	TAL BUF	LMH
P:7470A	MB 480-145279/1-A		480-145371	480-145279	10/16/2013 08:28	1	TAL BUF	JRK
A:7470A	MB 480-145279/1-A		480-145371	480-145279	10/16/2013 12:44	1	TAL BUF	JRK

Quality Control Results

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Laboratory Chronicle

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:3005A	LCS 480-145224/2-A		480-146309	480-145224	10/16/2013 08:45	1	TAL BUF	NMD2
A:6010C	LCS 480-145224/2-A		480-146309	480-145224	10/18/2013 16:53	1	TAL BUF	LMH
P:7470A	LCS 480-145279/2-A		480-145371	480-145279	10/16/2013 08:28	1	TAL BUF	JRK
A:7470A	LCS 480-145279/2-A		480-145371	480-145279	10/16/2013 12:46	1	TAL BUF	JRK

Lab References:

TAL BUF = TestAmerica Buffalo

Certification Summary

Client: Malcolm Pirnie, Inc. Invoice to Arcadis
Project/Site: NYSDEC-Standby TIOGA CASTINGS

TestAmerica Job ID: 480-47938-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAP	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAP	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAP	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAP	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAP	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAP	1	2337
TestAmerica Buffalo	New Hampshire	NELAP	1	2973
TestAmerica Buffalo	New Jersey	NELAP	2	NY455
TestAmerica Buffalo	New York	NELAP	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAP	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAP	3	68-00281
TestAmerica Buffalo	Rhode Island	State Program	1	LAO00328
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAP	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAP	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

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.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-47938-1

SDG No.: _____

Project: NYSDEC-Standby TIOGA CASTINGS

Client Sample ID	Lab Sample ID
MW-5	480-47938-1
MW-4	480-47938-2
MW-3D	480-47938-3
MW-2	480-47938-4
MW-7	480-47938-5
MW-8	480-47938-6
MW-6	480-47938-7
MW-1R	480-47938-8
MW-X	480-47938-9

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-5

Lab Sample ID: 480-47938-1

Lab Name: TestAmerica Buffalo

Job No.: 480-47938-1

SDG ID.:

Matrix: Water

Date Sampled: 10/14/2013 12:00

Reporting Basis: WET

Date Received: 10/15/2013 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.12	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	0.020	0.020	0.0068	mg/L	U		1	6010C
7440-38-2	Arsenic	0.010	0.010	0.0056	mg/L	U		1	6010C
7440-39-3	Barium	0.072	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	0.0020	0.0020	0.00030	mg/L	U		1	6010C
7440-43-9	Cadmium	0.0010	0.0010	0.00050	mg/L	U		1	6010C
7440-70-2	Calcium	55.1	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0040	0.0040	0.0010	mg/L	U		1	6010C
7440-48-4	Cobalt	0.0040	0.0040	0.00063	mg/L	U		1	6010C
7440-50-8	Copper	0.010	0.010	0.0016	mg/L	U		1	6010C
7439-89-6	Iron	0.040	0.050	0.019	mg/L	J		1	6010C
7439-92-1	Lead	0.0050	0.0050	0.0030	mg/L	U		1	6010C
7439-95-4	Magnesium	9.6	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.0036	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.010	0.010	0.0013	mg/L	U		1	6010C
7440-09-7	Potassium	3.9	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	0.015	0.015	0.0087	mg/L	U		1	6010C
7440-22-4	Silver	0.0030	0.0030	0.0017	mg/L	U		1	6010C
7440-23-5	Sodium	20.5	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	0.020	0.020	0.010	mg/L	U		1	6010C
7440-62-2	Vanadium	0.0050	0.0050	0.0015	mg/L	U		1	6010C
7440-66-6	Zinc	0.0036	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	0.00020	0.00020	0.00012	mg/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-4

Lab Sample ID: 480-47938-2

Lab Name: TestAmerica Buffalo

Job No.: 480-47938-1

SDG ID.:

Matrix: Water

Date Sampled: 10/14/2013 12:10

Reporting Basis: WET

Date Received: 10/15/2013 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.20	0.20	0.060	mg/L	U		1	6010C
7440-36-0	Antimony	0.020	0.020	0.0068	mg/L	U		1	6010C
7440-38-2	Arsenic	0.010	0.010	0.0056	mg/L	U		1	6010C
7440-39-3	Barium	0.043	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	0.0020	0.0020	0.00030	mg/L	U		1	6010C
7440-43-9	Cadmium	0.0010	0.0010	0.00050	mg/L	U		1	6010C
7440-70-2	Calcium	46.0	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0040	0.0040	0.0010	mg/L	U		1	6010C
7440-48-4	Cobalt	0.0040	0.0040	0.00063	mg/L	U		1	6010C
7440-50-8	Copper	0.010	0.010	0.0016	mg/L	U		1	6010C
7439-89-6	Iron	0.034	0.050	0.019	mg/L	J		1	6010C
7439-92-1	Lead	0.0050	0.0050	0.0030	mg/L	U		1	6010C
7439-95-4	Magnesium	8.8	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.0016	0.0030	0.00040	mg/L	J		1	6010C
7440-02-0	Nickel	0.010	0.010	0.0013	mg/L	U		1	6010C
7440-09-7	Potassium	1.1	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	0.015	0.015	0.0087	mg/L	U		1	6010C
7440-22-4	Silver	0.0030	0.0030	0.0017	mg/L	U		1	6010C
7440-23-5	Sodium	15.7	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	0.020	0.020	0.010	mg/L	U		1	6010C
7440-62-2	Vanadium	0.0050	0.0050	0.0015	mg/L	U		1	6010C
7440-66-6	Zinc	0.010	0.010	0.0015	mg/L	U		1	6010C
7439-97-6	Mercury	0.00020	0.00020	0.00012	mg/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-3D

Lab Sample ID: 480-47938-3

Lab Name: TestAmerica Buffalo

Job No.: 480-47938-1

SDG ID.:

Matrix: Water

Date Sampled: 10/14/2013 12:45

Reporting Basis: WET

Date Received: 10/15/2013 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.31	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	0.020	0.020	0.0068	mg/L	U		1	6010C
7440-38-2	Arsenic	0.010	0.010	0.0056	mg/L	U		1	6010C
7440-39-3	Barium	0.046	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	0.0020	0.0020	0.00030	mg/L	U		1	6010C
7440-43-9	Cadmium	0.0010	0.0010	0.00050	mg/L	U		1	6010C
7440-70-2	Calcium	45.8	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0040	0.0040	0.0010	mg/L	U		1	6010C
7440-48-4	Cobalt	0.0040	0.0040	0.00063	mg/L	U		1	6010C
7440-50-8	Copper	0.010	0.010	0.0016	mg/L	U		1	6010C
7439-89-6	Iron	0.39	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0050	0.0050	0.0030	mg/L	U		1	6010C
7439-95-4	Magnesium	8.8	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.021	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.010	0.010	0.0013	mg/L	U		1	6010C
7440-09-7	Potassium	1.4	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	0.015	0.015	0.0087	mg/L	U		1	6010C
7440-22-4	Silver	0.0030	0.0030	0.0017	mg/L	U		1	6010C
7440-23-5	Sodium	15.7	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	0.020	0.020	0.010	mg/L	U		1	6010C
7440-62-2	Vanadium	0.0050	0.0050	0.0015	mg/L	U		1	6010C
7440-66-6	Zinc	0.0036	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	0.00020	0.00020	0.00012	mg/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-2

Lab Sample ID: 480-47938-4

Lab Name: TestAmerica Buffalo

Job No.: 480-47938-1

SDG ID.:

Matrix: Water

Date Sampled: 10/14/2013 12:55

Reporting Basis: WET

Date Received: 10/15/2013 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	2.5	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	0.020	0.020	0.0068	mg/L	U		1	6010C
7440-38-2	Arsenic	0.010	0.010	0.0056	mg/L	U		1	6010C
7440-39-3	Barium	0.21	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	0.0020	0.0020	0.00030	mg/L	U		1	6010C
7440-43-9	Cadmium	0.0013	0.0010	0.00050	mg/L			1	6010C
7440-70-2	Calcium	81.8	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0065	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	0.0015	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	0.0073	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	3.9	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0050	0.0050	0.0030	mg/L	U		1	6010C
7439-95-4	Magnesium	14.2	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	2.8	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.0080	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	7.4	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	0.015	0.015	0.0087	mg/L	U		1	6010C
7440-22-4	Silver	0.0030	0.0030	0.0017	mg/L	U		1	6010C
7440-23-5	Sodium	74.2	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	0.020	0.020	0.010	mg/L	U		1	6010C
7440-62-2	Vanadium	0.0039	0.0050	0.0015	mg/L	J		1	6010C
7440-66-6	Zinc	0.019	0.010	0.0015	mg/L			1	6010C
7439-97-6	Mercury	0.00020	0.00020	0.00012	mg/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-7

Lab Sample ID: 480-47938-5

Lab Name: TestAmerica Buffalo

Job No.: 480-47938-1

SDG ID.:

Matrix: Water

Date Sampled: 10/14/2013 13:45

Reporting Basis: WET

Date Received: 10/15/2013 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.10	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	0.020	0.020	0.0068	mg/L	U		1	6010C
7440-38-2	Arsenic	0.010	0.010	0.0056	mg/L	U		1	6010C
7440-39-3	Barium	0.10	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	0.0020	0.0020	0.00030	mg/L	U		1	6010C
7440-43-9	Cadmium	0.0010	0.0010	0.00050	mg/L	U		1	6010C
7440-70-2	Calcium	64.0	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0040	0.0040	0.0010	mg/L	U		1	6010C
7440-48-4	Cobalt	0.0040	0.0040	0.00063	mg/L	U		1	6010C
7440-50-8	Copper	0.0051	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	0.66	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0050	0.0050	0.0030	mg/L	U		1	6010C
7439-95-4	Magnesium	10.3	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.34	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.0021	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	4.4	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	0.015	0.015	0.0087	mg/L	U		1	6010C
7440-22-4	Silver	0.0030	0.0030	0.0017	mg/L	U		1	6010C
7440-23-5	Sodium	22.1	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	0.020	0.020	0.010	mg/L	U		1	6010C
7440-62-2	Vanadium	0.0050	0.0050	0.0015	mg/L	U		1	6010C
7440-66-6	Zinc	0.0073	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	0.00020	0.00020	0.00012	mg/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID:	MW-6	Lab Sample ID:	480-47938-7
Lab Name:	TestAmerica Buffalo	Job No.:	480-47938-1
SDG ID.:			
Matrix:	Water	Date Sampled:	10/14/2013 14:40
Reporting Basis:	WET	Date Received:	10/15/2013 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.31	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	0.020	0.020	0.0068	mg/L	U		1	6010C
7440-38-2	Arsenic	0.010	0.010	0.0056	mg/L	U		1	6010C
7440-39-3	Barium	0.062	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	0.0020	0.0020	0.00030	mg/L	U		1	6010C
7440-43-9	Cadmium	0.0010	0.0010	0.00050	mg/L	U		1	6010C
7440-70-2	Calcium	54.2	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0040	0.0040	0.0010	mg/L	U		1	6010C
7440-48-4	Cobalt	0.0040	0.0040	0.00063	mg/L	U		1	6010C
7440-50-8	Copper	0.010	0.010	0.0016	mg/L	U		1	6010C
7439-89-6	Iron	0.33	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0050	0.0050	0.0030	mg/L	U		1	6010C
7439-95-4	Magnesium	10.1	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.015	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.010	0.010	0.0013	mg/L	U		1	6010C
7440-09-7	Potassium	2.0	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	0.015	0.015	0.0087	mg/L	U		1	6010C
7440-22-4	Silver	0.0030	0.0030	0.0017	mg/L	U		1	6010C
7440-23-5	Sodium	22.4	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	0.020	0.020	0.010	mg/L	U		1	6010C
7440-62-2	Vanadium	0.0050	0.0050	0.0015	mg/L	U		1	6010C
7440-66-6	Zinc	0.0028	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	0.00020	0.00020	0.00012	mg/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-1R

Lab Sample ID: 480-47938-8

Lab Name: TestAmerica Buffalo

Job No.: 480-47938-1

SDG ID.:

Matrix: Water

Date Sampled: 10/14/2013 14:45

Reporting Basis: WET

Date Received: 10/15/2013 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.93	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	0.020	0.020	0.0068	mg/L	U		1	6010C
7440-38-2	Arsenic	0.010	0.010	0.0056	mg/L	U		1	6010C
7440-39-3	Barium	0.058	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	0.0020	0.0020	0.00030	mg/L	U		1	6010C
7440-43-9	Cadmium	0.0010	0.0010	0.00050	mg/L	U		1	6010C
7440-70-2	Calcium	58.7	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0019	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	0.0040	0.0040	0.00063	mg/L	U		1	6010C
7440-50-8	Copper	0.010	0.010	0.0016	mg/L	U		1	6010C
7439-89-6	Iron	1.0	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0050	0.0050	0.0030	mg/L	U		1	6010C
7439-95-4	Magnesium	11.9	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.061	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.010	0.010	0.0013	mg/L	U		1	6010C
7440-09-7	Potassium	2.0	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	0.015	0.015	0.0087	mg/L	U		1	6010C
7440-22-4	Silver	0.0030	0.0030	0.0017	mg/L	U		1	6010C
7440-23-5	Sodium	28.3	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	0.020	0.020	0.010	mg/L	U		1	6010C
7440-62-2	Vanadium	0.0015	0.0050	0.0015	mg/L	J		1	6010C
7440-66-6	Zinc	0.0052	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	0.00020	0.00020	0.00012	mg/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-X

Lab Sample ID: 480-47938-9

Lab Name: TestAmerica Buffalo

Job No.: 480-47938-1

SDG ID.:

Matrix: Water

Date Sampled: 10/14/2013 00:00

Reporting Basis: WET

Date Received: 10/15/2013 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.34	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	0.020	0.020	0.0068	mg/L	U		1	6010C
7440-38-2	Arsenic	0.010	0.010	0.0056	mg/L	U		1	6010C
7440-39-3	Barium	0.063	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	0.0020	0.0020	0.00030	mg/L	U		1	6010C
7440-43-9	Cadmium	0.0010	0.0010	0.00050	mg/L	U		1	6010C
7440-70-2	Calcium	55.1	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0040	0.0040	0.0010	mg/L	U		1	6010C
7440-48-4	Cobalt	0.0040	0.0040	0.00063	mg/L	U		1	6010C
7440-50-8	Copper	0.010	0.010	0.0016	mg/L	U		1	6010C
7439-89-6	Iron	0.36	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0050	0.0050	0.0030	mg/L	U		1	6010C
7439-95-4	Magnesium	10.2	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.017	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.010	0.010	0.0013	mg/L	U		1	6010C
7440-09-7	Potassium	2.0	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	0.015	0.015	0.0087	mg/L	U		1	6010C
7440-22-4	Silver	0.0030	0.0030	0.0017	mg/L	U		1	6010C
7440-23-5	Sodium	22.5	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	0.020	0.020	0.010	mg/L	U		1	6010C
7440-62-2	Vanadium	0.0050	0.0050	0.0015	mg/L	U		1	6010C
7440-66-6	Zinc	0.0022	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	0.00020	0.00020	0.00012	mg/L	U		1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo

Job No.: 480-47938-1

SDG No.: _____

ICV Source: MEI_04_ICV_00215

Concentration Units: mg/L

CCV Source: MEI_09_CCV_00131

Analyte	ICV 480-146309/5 10/18/2013 10:58				CCV 480-146309/13 10/18/2013 16:41				CCV 480-146309/24 10/18/2013 17:10			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	18.78		18.8	100	24.29		25.0	97	24.63		25.0	99
Antimony	0.378		0.375	101	0.521		0.500	104	0.521		0.500	104
Arsenic	0.380		0.375	101	0.499		0.500	100	0.501		0.500	100
Barium	0.378		0.375	101	0.494		0.500	99	0.499		0.500	100
Beryllium	0.374		0.375	100	0.501		0.500	100	0.501		0.500	100
Cadmium	0.373		0.375	99	0.495		0.500	99	0.494		0.500	99
Calcium	18.67		18.8	100	24.12		25.0	96	24.21		25.0	97
Chromium	0.376		0.375	100	0.476		0.500	95	0.479		0.500	96
Cobalt	0.367		0.375	98	0.490		0.500	98	0.489		0.500	98
Copper	0.371		0.375	99	0.474		0.500	95	0.478		0.500	96
Iron	18.30		18.8	98	24.53		25.0	98	24.63		25.0	99
Lead	0.371		0.375	99	0.500		0.500	100	0.497		0.500	99
Magnesium	18.19		18.8	97	23.95		25.0	96	23.91		25.0	96
Manganese	0.379		0.375	101	0.502		0.500	100	0.501		0.500	100
Nickel	0.370		0.375	99	0.499		0.500	100	0.497		0.500	99
Potassium	18.10		18.8	97	24.70		25.0	99	24.90		25.0	100
Selenium	0.375		0.375	100	0.493		0.500	99	0.489		0.500	98
Silver	0.372		0.375	99	0.483		0.500	97	0.485		0.500	97
Sodium	18.14		18.8	97	23.91		25.0	96	24.25		25.0	97
Thallium	0.376		0.375	100	0.504		0.500	101	0.506		0.500	101
Vanadium	0.370		0.375	99	0.463		0.500	93	0.466		0.500	93
Zinc	0.375		0.375	100	0.468		0.500	94	0.470		0.500	94

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 Buffalo Job No.: 480-47938-1

SDG No.: _____

ICV Source: MEI_04_ICV_00215 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00131

Analyte	CCV 480-146309/36 10/18/2013 17:38											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	24.70		25.0	99								
Antimony	0.519		0.500	104								
Arsenic	0.498		0.500	100								
Barium	0.499		0.500	100								
Beryllium	0.499		0.500	100								
Cadmium	0.495		0.500	99								
Calcium	24.07		25.0	96								
Chromium	0.482		0.500	96								
Cobalt	0.489		0.500	98								
Copper	0.478		0.500	96								
Iron	24.57		25.0	98								
Lead	0.499		0.500	100								
Magnesium	24.06		25.0	96								
Manganese	0.503		0.500	101								
Nickel	0.497		0.500	99								
Potassium	24.99		25.0	100								
Selenium	0.490		0.500	98								
Silver	0.487		0.500	97								
Sodium	24.41		25.0	98								
Thallium	0.506		0.500	101								
Vanadium	0.468		0.500	94								
Zinc	0.474		0.500	95								

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 Buffalo Job No.: 480-47938-1

SDG No.: _____

ICV Source: MEI_06_CRI_00077 Concentration Units: mg/L

CCV Source: MEI_06_CRI_00077

Analyte	ICVL 480-146309/7 10/18/2013 11:03				CCVL 480-146309/15 10/18/2013 16:46				CCVL 480-146309/26 10/18/2013 17:15			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.241		0.200	120	0.237		0.200	119	0.237		0.200	118
Antimony	0.0194	J	0.0200	97	0.0211		0.0200	106	0.0199	J	0.0200	99
Arsenic	0.0126		0.0100	126	0.0125		0.0100	125	0.0103		0.0100	103
Barium	0.00212		0.00200	106	0.00199	J	0.00200	100	0.00200		0.00200	100
Beryllium	0.00212		0.00200	106	0.00194	J	0.00200	97	0.00202		0.00200	101
Cadmium	0.00092 0	J	0.00100	92	0.00082 0	J	0.00100	82	0.00089 0	J	0.00100	89
Calcium	0.524		0.500	105	0.501		0.500	100	0.493	J	0.500	99
Chromium	0.00403		0.00400	101	0.00342	J	0.00400	86	0.00325	J	0.00400	81
Cobalt	0.00397	J	0.00400	99	0.00381	J	0.00400	95	0.00385	J	0.00400	96
Copper	0.0105		0.0100	105	0.00878	J	0.0100	88	0.00891	J	0.0100	89
Iron	0.0405	J	0.0500	81	0.0454	J	0.0500	91	0.0423	J	0.0500	85
Lead	0.00434	J	0.00500	87	0.00453	J	0.00500	91	0.00526		0.00500	105
Magnesium	0.206		0.200	103	0.199	J	0.200	100	0.202		0.200	101
Manganese	0.00331		0.00300	110	0.00310		0.00300	103	0.00305		0.00300	102
Nickel	0.00978	J	0.0100	98	0.00992	J	0.0100	99	0.00997	J	0.0100	100
Potassium	0.485	J	0.500	97	0.496	J	0.500	99	0.447	J	0.500	89
Selenium	0.0134	J	0.0150	89	0.0171		0.0150	114	0.0147	J	0.0150	98
Silver	0.00246	J	0.00300	82	0.00248	J	0.00300	83	0.00254	J	0.00300	85
Sodium	0.922	J	1.00	92	0.918	J	1.00	92	0.904	J	1.00	90
Thallium	0.0208		0.0200	104	0.0219		0.0200	110	0.0215		0.0200	108
Vanadium	0.00515		0.00500	103	0.00487	J	0.00500	97	0.00458	J	0.00500	92
Zinc	0.0109		0.0100	109	0.0101		0.0100	101	0.00997	J	0.0100	100

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 Buffalo Job No.: 480-47938-1

SDG No.: _____

ICV Source: MEI_06_CRI_00077 Concentration Units: mg/L

CCV Source: MEI_06_CRI_00077

Analyte	CCVL 480-146309/38 10/18/2013 17:43											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.226		0.200	113								
Antimony	0.0215		0.0200	107								
Arsenic	0.0109		0.0100	109								
Barium	0.00199	J	0.00200	100								
Beryllium	0.00200		0.00200	100								
Cadmium	0.00091 0	J	0.00100	91								
Calcium	0.496	J	0.500	99								
Chromium	0.00390	J	0.00400	98								
Cobalt	0.00394	J	0.00400	99								
Copper	0.00865	J	0.0100	87								
Iron	0.0453	J	0.0500	91								
Lead	0.00470	J	0.00500	94								
Magnesium	0.199	J	0.200	99								
Manganese	0.00307		0.00300	102								
Nickel	0.00987	J	0.0100	99								
Potassium	0.432	J	0.500	86								
Selenium	0.0150		0.0150	100								
Silver	0.00275	J	0.00300	92								
Sodium	0.903	J	1.00	90								
Thallium	0.0202		0.0200	101								
Vanadium	0.00451	J	0.00500	90								
Zinc	0.00966	J	0.0100	97								

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 Buffalo Job No.: 480-47938-1

SDG No.: _____

ICV Source: MEH_HG2_WKG_00474 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00474

Analyte	ICV 480-145371/1 10/16/2013 11:46				ICVL 480-145371/3 10/16/2013 11:50				CCV 480-145371/28 10/16/2013 12:34			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00293		0.00300	98	0.00021 6		0.00020 0	108	0.00205		0.00200	103

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 Buffalo Job No.: 480-47938-1

SDG No.: _____

ICV Source: MEH_HG2_WKG_00474 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00474

Analyte	CCV 480-145371/40 10/16/2013 12:54				CCV 480-145371/52 10/16/2013 13:14				CCVL 480-145371/68 10/16/2013 13:42			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00198		0.00200	99	0.00189		0.00200	95	0.00024 5		0.00020 0	123

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo

Job No.: 480-47938-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	ICB 480-146309/6 10/18/2013 11:01		CCB 480-146309/14 10/18/2013 16:44		CCB 480-146309/25 10/18/2013 17:12		CCB 480-146309/37 10/18/2013 17:41	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	0.20	U	0.20	U	0.20	U	0.20	U
Antimony	0.020	0.020	U	0.020	U	0.020	U	0.020	U
Arsenic	0.010	0.010	U	0.010	U	0.010	U	0.010	U
Barium	0.0020	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Beryllium	0.0020	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Cadmium	0.0010	0.0010	U	0.0010	U	0.0010	U	0.0010	U
Calcium	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Chromium	0.0040	0.0040	U	0.0040	U	0.0040	U	0.0040	U
Cobalt	0.0040	0.0040	U	0.0040	U	0.0040	U	0.0040	U
Copper	0.010	0.010	U	0.010	U	0.010	U	0.010	U
Iron	0.050	0.050	U	0.050	U	0.050	U	0.050	U
Lead	0.0050	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Magnesium	0.20	0.20	U	0.20	U	0.20	U	0.20	U
Manganese	0.0030	0.0030	U	0.0030	U	0.0030	U	0.0030	U
Nickel	0.010	0.010	U	0.010	U	0.010	U	0.010	U
Potassium	0.50	0.50	U	0.101	J	0.50	U	0.50	U
Selenium	0.015	0.015	U	0.015	U	0.015	U	0.015	U
Silver	0.0030	0.0030	U	0.0030	U	0.0030	U	0.0030	U
Sodium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Thallium	0.020	0.020	U	0.020	U	0.020	U	0.020	U
Vanadium	0.0050	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Zinc	0.010	0.010	U	0.00749	J	0.00932	J	0.00906	J

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	ICB 480-145371/2 10/16/2013 11:48		CCB 480-145371/29 10/16/2013 12:36		CCB 480-145371/41 10/16/2013 12:56		CCB 480-145371/53 10/16/2013 13:16	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	0.00020	U	0.00020	U	0.00020	U	0.00020	U

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Concentration Units: mg/L Lab Sample ID: MB 480-145224/1-A

Instrument Code: ICAP1 Batch No.: 146309

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	0.20	U		6010C
7440-36-0	Antimony	0.020	U		6010C
7440-38-2	Arsenic	0.010	U		6010C
7440-39-3	Barium	0.0020	U		6010C
7440-41-7	Beryllium	0.0020	U		6010C
7440-43-9	Cadmium	0.0010	U		6010C
7440-70-2	Calcium	0.50	U		6010C
7440-47-3	Chromium	0.0040	U		6010C
7440-48-4	Cobalt	0.0040	U		6010C
7440-50-8	Copper	0.010	U		6010C
7439-89-6	Iron	0.050	U		6010C
7439-92-1	Lead	0.0050	U		6010C
7439-95-4	Magnesium	0.20	U		6010C
7439-96-5	Manganese	0.0030	U		6010C
7440-02-0	Nickel	0.010	U		6010C
7440-09-7	Potassium	0.50	U		6010C
7782-49-2	Selenium	0.015	U		6010C
7440-22-4	Silver	0.0030	U		6010C
7440-23-5	Sodium	1.0	U		6010C
7440-28-0	Thallium	0.020	U		6010C
7440-62-2	Vanadium	0.0050	U		6010C
7440-66-6	Zinc	0.010	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1
SDG No.: _____
Concentration Units: mg/L Lab Sample ID: MB 480-145279/1-A
Instrument Code: LEEMAN2 Batch No.: 145371

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.00020	U		7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1
 SDG No.: _____
 Lab Sample ID: ICSA 480-146309/8 Instrument ID: ICAP1
 Lab File ID: _____ ICS Source: MEI_07_ICSA_00054
 Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	501	521	104
Antimony		-0.0238	
Arsenic		-0.0014	
Barium		0.0018	
Beryllium		0.0000	
Cadmium		0.0006	
Calcium	500	478	95
Chromium		0.0008	
Cobalt		-0.0008	
Copper		0.0029	
Iron	200	194	97
Lead		0.0053	
Magnesium	500	495	99
Manganese		0.0012	
Manganese		0.0019	
Nickel		0.0003	
Potassium		-0.0014	
Selenium		0.0049	
Silver		-0.0003	
Sodium		0.0676	
Thallium		0.0015	
Vanadium		-0.0009	
Zinc		0.0044	
<i>Boron</i>		0.0033	
<i>Lithium</i>		0.0017	
<i>Molybdenum</i>		-0.0009	
<i>Silicon</i>		0.0635	
<i>Strontium</i>		0.0048	
<i>Tin</i>		0.0009	
<i>Titanium</i>		0.0036	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1
 SDG No.: _____
 Lab Sample ID: ICSAB 480-146309/9 Instrument ID: ICAP1
 Lab File ID: _____ ICS Source: MEI_08_ICSAB_00073
 Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Aluminum	501	507	101
Antimony	0.600	0.574	96
Arsenic	0.100	0.0919	92
Barium	0.500	0.506	101
Beryllium	0.500	0.501	100
Cadmium	1.00	1.01	101
Calcium	501	478	95
Chromium	0.500	0.468	94
Cobalt	0.500	0.491	98
Copper	0.500	0.518	104
Iron	100	94.4	94
Lead	0.0500	0.0475	95
Magnesium	501	501	100
Manganese	0.500	0.460	92
Manganese	0.500	0.492	98
Nickel	1.00	0.949	95
Potassium		0.0348	
Selenium	0.0500	0.0480	96
Silver	0.200	0.219	109
Sodium		0.0598	
Thallium	0.100	0.0944	94
Vanadium	0.500	0.475	95
Zinc	1.00	0.933	93
<i>Boron</i>		<i>0.0086</i>	
<i>Lithium</i>	<i>0.500</i>	<i>0.547</i>	<i>109</i>
<i>Molybdenum</i>		<i>0.0000</i>	
<i>Silicon</i>	<i>1.00</i>	<i>1.12</i>	<i>112</i>
<i>Strontium</i>	<i>0.500</i>	<i>0.504</i>	<i>101</i>
<i>Tin</i>		<i>0.0003</i>	
<i>Titanium</i>		<i>0.0029</i>	

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

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-6 MS

Lab ID: 480-47938-7 MS

Lab Name: TestAmerica Buffalo

Job No.: 480-47938-1

SDG No.: _____

Matrix: Water

Concentration Units: mg/L

% Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	10.49	0.31	10.0	102	75-125		6010C
Antimony	0.210	0.020 U	0.200	105	75-125		6010C
Arsenic	0.208	0.010 U	0.200	104	75-125		6010C
Barium	0.260	0.062	0.200	99	75-125		6010C
Beryllium	0.207	0.0020 U	0.200	104	75-125		6010C
Cadmium	0.204	0.0010 U	0.200	102	75-125		6010C
Calcium	63.71	54.2	10.0	95	75-125	4	6010C
Chromium	0.193	0.0040 U	0.200	96	75-125		6010C
Cobalt	0.200	0.0040 U	0.200	100	75-125		6010C
Copper	0.194	0.010 U	0.200	97	75-125		6010C
Iron	10.49	0.33	10.0	102	75-125		6010C
Lead	0.200	0.0050 U	0.200	100	75-125		6010C
Magnesium	20.09	10.1	10.0	100	75-125		6010C
Manganese	0.215	0.015	0.200	100	75-125		6010C
Nickel	0.202	0.010 U	0.200	101	75-125		6010C
Potassium	12.18	2.0	10.0	102	75-125		6010C
Selenium	0.207	0.015 U	0.200	104	75-125		6010C
Silver	0.0485	0.0030 U	0.0500	97	75-125		6010C
Sodium	32.58	22.4	10.0	101	75-125		6010C
Thallium	0.204	0.020 U	0.200	102	75-125		6010C
Vanadium	0.188	0.0050 U	0.200	94	75-125		6010C
Zinc	0.187	0.0028 J	0.200	92	75-125		6010C
Mercury	0.00638	0.00020 U	0.00667	96	75-125		7470A

SSR = Spiked Sample Result

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

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MW-6 MSD Lab ID: 480-47938-7 MSD
 Lab Name: TestAmerica Buffalo Job No.: 480-47938-1
 SDG No.: _____
 Matrix: Water Concentration Units: mg/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	10.47	10.0	102	75-125	0	20		6010C
Antimony	0.209	0.200	104	75-125	0	20		6010C
Arsenic	0.208	0.200	104	75-125	0	20		6010C
Barium	0.259	0.200	98	75-125	0	20		6010C
Beryllium	0.208	0.200	104	75-125	0	20		6010C
Cadmium	0.203	0.200	101	75-125	0	20		6010C
Calcium	64.11	10.0	99	75-125	1	20	4	6010C
Chromium	0.193	0.200	96	75-125	0	20		6010C
Cobalt	0.200	0.200	100	75-125	0	20		6010C
Copper	0.194	0.200	97	75-125	0	20		6010C
Iron	10.52	10.0	102	75-125	0	20		6010C
Lead	0.202	0.200	101	75-125	1	20		6010C
Magnesium	20.04	10.0	100	75-125	0	20		6010C
Manganese	0.215	0.200	100	75-125	0	20		6010C
Nickel	0.201	0.200	101	75-125	0	20		6010C
Potassium	12.22	10.0	102	75-125	0	20		6010C
Selenium	0.206	0.200	103	75-125	1	20		6010C
Silver	0.0498	0.0500	100	75-125	3	20		6010C
Sodium	32.66	10.0	102	75-125	0	20		6010C
Thallium	0.206	0.200	103	75-125	1	20		6010C
Vanadium	0.188	0.200	94	75-125	0	20		6010C
Zinc	0.187	0.200	92	75-125	0	20		6010C
Mercury	0.00652	0.00667	98	75-125	2	20		7470A

SDR = Sample Duplicate Result

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

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-6 PDS

Lab ID: 480-47938-7 PDS

Lab Name: TestAmerica Buffalo

Job No.: 480-47938-1

SDG No.: _____

Matrix: Water

Concentration Units: mg/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	10.97	0.31	10.0	107	75-125		6010C
Antimony	0.212	0.020 U	0.200	106	75-125		6010C
Arsenic	0.211	0.010 U	0.200	105	75-125		6010C
Barium	0.271	0.062	0.200	104	75-125		6010C
Beryllium	0.212	0.0020 U	0.200	106	75-125		6010C
Cadmium	0.208	0.0010 U	0.200	104	75-125		6010C
Calcium	62.93	54.2	10.0	87	75-125		6010C
Chromium	0.202	0.0040 U	0.200	101	75-125		6010C
Cobalt	0.206	0.0040 U	0.200	103	75-125		6010C
Copper	0.202	0.010 U	0.200	101	75-125		6010C
Iron	10.69	0.33	10.0	104	75-125		6010C
Lead	0.207	0.0050 U	0.200	104	75-125		6010C
Magnesium	20.19	10.1	10.0	101	75-125		6010C
Manganese	0.221	0.015	0.200	103	75-125		6010C
Nickel	0.206	0.010 U	0.200	103	75-125		6010C
Potassium	12.75	2.0	10.0	107	75-125		6010C
Selenium	0.211	0.015 U	0.200	105	75-125		6010C
Silver	0.0492	0.0030 U	0.0500	98	75-125		6010C
Sodium	32.98	22.4	10.0	105	75-125		6010C
Thallium	0.212	0.020 U	0.200	106	75-125		6010C
Vanadium	0.200	0.0050 U	0.200	100	75-125		6010C
Zinc	0.197	0.0028 J	0.200	97	75-125		6010C

SSR = Spiked Sample Result

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

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-145224/2-A

Lab Name: TestAmerica Buffalo

Job No.: 480-47938-1

Sample Matrix: Water

LCS Source: MED_02_W2_00014

Analyte	Water (mg/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10.0	10.36		104	80	120		6010C
Antimony	0.200	0.213		107	80	120		6010C
Arsenic	0.200	0.207		104	80	120		6010C
Barium	0.200	0.205		102	80	120		6010C
Beryllium	0.200	0.210		105	80	120		6010C
Cadmium	0.200	0.207		104	80	120		6010C
Calcium	10.0	9.95		100	80	120		6010C
Chromium	0.200	0.198		99	80	120		6010C
Cobalt	0.200	0.204		102	80	120		6010C
Copper	0.200	0.198		99	80	120		6010C
Iron	10.0	10.39		104	80	120		6010C
Lead	0.200	0.205		103	80	120		6010C
Magnesium	10.0	10.30		103	80	120		6010C
Manganese	0.200	0.207		103	80	120		6010C
Nickel	0.200	0.204		102	80	120		6010C
Potassium	10.0	9.88		99	80	120		6010C
Selenium	0.200	0.206		103	80	120		6010C
Silver	0.0500	0.0494		99	80	120		6010C
Sodium	10.0	9.81		98	80	120		6010C
Thallium	0.200	0.210		105	80	120		6010C
Vanadium	0.200	0.193		97	80	120		6010C
Zinc	0.200	0.193		97	80	120		6010C

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 480-145279/2-A

Lab Name: TestAmerica Buffalo

Job No.: 480-47938-1

Sample Matrix: Water

LCS Source: MEH_HG2_WKG_00474

Analyte	Water (mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00653		98	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

Lab ID: 480-47938-7

SDG No:

Lab Name: TestAmerica Buffalo

Job No: 480-47938-1

Matrix: Water

Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	0.31		0.394	J	NC		6010C
Antimony	0.020	U	0.10	U	NC		6010C
Arsenic	0.010	U	0.050	U	NC		6010C
Barium	0.062		0.0642		2.8		6010C
Beryllium	0.0020	U	0.010	U	NC		6010C
Cadmium	0.0010	U	0.0050	U	NC		6010C
Calcium	54.2		54.67		0.83		6010C
Chromium	0.0040	U	0.020	U	NC		6010C
Cobalt	0.0040	U	0.020	U	NC		6010C
Copper	0.010	U	0.050	U	NC		6010C
Iron	0.33		0.307		NC		6010C
Lead	0.0050	U	0.025	U	NC		6010C
Magnesium	10.1		10.15		0.58		6010C
Manganese	0.015		0.0153		0.07		6010C
Nickel	0.010	U	0.050	U	NC		6010C
Potassium	2.0		1.82	J	NC		6010C
Selenium	0.015	U	0.075	U	NC		6010C
Silver	0.0030	U	0.015	U	NC		6010C
Sodium	22.4		21.64		3.6		6010C
Thallium	0.020	U	0.10	U	NC		6010C
Vanadium	0.0050	U	0.025	U	NC		6010C
Zinc	0.0028	J	0.050	U	NC		6010C

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

Lab ID: 480-47938-7

SDG No:

Lab Name: TestAmerica Buffalo

Job No: 480-47938-1

Matrix: Water

Concentration Units: mg/L

Analyte	Initial Sample		Serial		% Difference	Q	Method
	Result (I)	C	Result (S)	C			
Mercury	0.00020	U	0.0010	U	NC		7470A

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-47938-1
 SDG Number: _____
 Matrix: Water Instrument ID: ICAP1
 Method: 6010C MDL Date: 07/17/2013 11:47
 Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.01	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.001	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	324.754	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.005	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.015	0.0087
Silver	328.068	0.003	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-47938-1
SDG Number: _____
Matrix: Water Instrument ID: ICAP1
Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.01	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.001	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	324.754	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.005	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.015	0.0087
Silver	328.068	0.003	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-47938-1
SDG Number: _____
Matrix: Water Instrument ID: LEEMAN2
Method: 7470A MDL Date: 01/28/2010 00:00
Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-47938-1
SDG Number: _____
Matrix: Water Instrument ID: LEEMAN2
Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-47938-1

SDG No.: _____

ICP-AES Instrument ID: ICAP1 Date: 05/17/2013

Analyte	Wave Length	Al	As	Co	Cr	Fe	Mo	Ni	Si	Ti	V				
Antimony	206.833				0.017875										
Arsenic	189.042				-0.018613										
Beryllium	313.042									-0.000801	0.000048				
Boron	208.959						0.035582								
Cadmium	228.802		0.003178			0.000002		-0.000080							
Cobalt	228.616						-0.001011			0.001848					
Copper	324.754									-0.000426	-0.000325				
Lead	220.353	-0.000018				0.000015	-0.001722		0.000411	-0.000571					
Selenium	196.090	-0.000035													
Silver	328.068										0.000102				
Thallium	190.856			003615						-0.000573	0.000614				
Titanium	334.904				0.000153										
Vanadium	292.402					0.000026	-0.005071			0.000717					
Zinc	206.200				-0.001820										

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo

Job No: 480-47938-1

SDG No.: _____

Instrument ID: ICAP1

Date: 08/15/2013 12:05

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	1000	6010C
Antimony	15	50	6010C
Arsenic	15	30	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	40	6010C
Cobalt	15	20	6010C
Copper	15	25	6010C
Iron	15	800	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	100	6010C
Nickel	15	20	6010C
Potassium	15	600	6010C
Selenium	15	60	6010C
Silver	15	2	6010C
Sodium	15	5000	6010C
Thallium	15	40	6010C
Vanadium	15	50	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo

Job No: 480-47938-1

SDG No.: _____

Instrument ID: LEEMAN2

Date: 02/12/2013 11:25

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-145224/1-A	10/16/2013 08:45	145224		50	50
LCS 480-145224/2-A	10/16/2013 08:45	145224		50	50
480-47938-1	10/16/2013 08:45	145224		50	50
480-47938-2	10/16/2013 08:45	145224		50	50
480-47938-3	10/16/2013 08:45	145224		50	50
480-47938-4	10/16/2013 08:45	145224		50	50
480-47938-5	10/16/2013 08:45	145224		50	50
480-47938-6	10/16/2013 08:45	145224		50	50
480-47938-7	10/16/2013 08:45	145224		50	50
480-47938-7 MS	10/16/2013 08:45	145224		50	50
480-47938-7 MSD	10/16/2013 08:45	145224		50	50
480-47938-8	10/16/2013 08:45	145224		50	50
480-47938-9	10/16/2013 08:45	145224		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-145279/1-A	10/16/2013 08:28	145279		30	50
LCS 480-145279/2-A	10/16/2013 08:28	145279		30	50
480-47938-1	10/16/2013 08:28	145279		30	50
480-47938-2	10/16/2013 08:28	145279		30	50
480-47938-3	10/16/2013 08:28	145279		30	50
480-47938-4	10/16/2013 08:28	145279		30	50
480-47938-5	10/16/2013 08:28	145279		30	50
480-47938-6	10/16/2013 08:28	145279		30	50
480-47938-7	10/16/2013 08:28	145279		30	50
480-47938-7 MS	10/16/2013 08:28	145279		30	50
480-47938-7 MSD	10/16/2013 08:28	145279		30	50
480-47938-8	10/16/2013 08:28	145279		30	50
480-47938-9	10/16/2013 08:28	145279		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Instrument ID: ICAP1 Method: 6010C

Start Date: 10/18/2013 10:49 End Date: 10/18/2013 18:12

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
IC 480-146309/1			10:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IC 480-146309/2			10:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IC 480-146309/3			10:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IC 480-146309/4			10:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICV 480-146309/5	1		10:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICB 480-146309/6	1		11:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICVL 480-146309/7	1		11:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICSA 480-146309/8	1		11:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICSAB 480-146309/9	1		11:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV 480-146309/10			11:11																				
CCB 480-146309/11			11:13																				
CCVL 480-146309/12			11:16																				
CCV 480-146309/13	1		16:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 480-146309/14	1		16:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCVL 480-146309/15	1		16:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MB 480-145224/1-A	1	T	16:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LCS 480-145224/2-A	1	T	16:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
480-47938-1	1	T	16:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
480-47938-2	1	T	16:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
480-47938-3	1	T	17:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
480-47938-4	1	T	17:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
480-47938-5	1	T	17:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
480-47938-6	1	T	17:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV 480-146309/24	1		17:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 480-146309/25	1		17:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCVL 480-146309/26	1		17:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
480-47938-7	1	T	17:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
480-47938-7 SD	5	T	17:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
480-47938-7 PDS	1	T	17:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
480-47938-7 MS	1	T	17:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
480-47938-7 MSD	1	T	17:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
480-47938-8	1	T	17:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
480-47938-9	1	T	17:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ			17:34																				
ZZZZZZ			17:36																				
CCV 480-146309/36	1		17:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 480-146309/37	1		17:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCVL 480-146309/38	1		17:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ			17:46																				
ZZZZZZ			17:48																				
ZZZZZZ			17:50																				
ZZZZZZ			17:53																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Instrument ID: ICAP1 Method: 6010C

Start Date: 10/18/2013 10:49 End Date: 10/18/2013 18:12

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e
ZZZZZZ			17:55																			
ZZZZZZ			17:57																			
ZZZZZZ			18:00																			
ZZZZZZ			18:02																			
ZZZZZZ			18:05																			
CCV 480-146309/48			18:07																			
CCB 480-146309/49			18:10																			
CCVL 480-146309/50			18:12																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Instrument ID: ICAP1 Method: 6010C

Start Date: 10/18/2013 10:49 End Date: 10/18/2013 18:12

Lab Sample ID	D / F	T y p e	Time	Analytes															
				V	Z n														
IC 480-146309/1			10:49	X	X														
IC 480-146309/2			10:52	X	X														
IC 480-146309/3			10:54	X	X														
IC 480-146309/4			10:56	X	X														
ICV 480-146309/5	1		10:58	X	X														
ICB 480-146309/6	1		11:01	X	X														
ICVL 480-146309/7	1		11:03	X	X														
ICSA 480-146309/8	1		11:06	X	X														
ICSAB 480-146309/9	1		11:08	X	X														
CCV 480-146309/10			11:11																
CCB 480-146309/11			11:13																
CCVL 480-146309/12			11:16																
CCV 480-146309/13	1		16:41	X	X														
CCB 480-146309/14	1		16:44	X	X														
CCVL 480-146309/15	1		16:46	X	X														
MB 480-145224/1-A	1	T	16:51	X	X														
LCS 480-145224/2-A	1	T	16:53	X	X														
480-47938-1	1	T	16:56	X	X														
480-47938-2	1	T	16:58	X	X														
480-47938-3	1	T	17:00	X	X														
480-47938-4	1	T	17:03	X	X														
480-47938-5	1	T	17:05	X	X														
480-47938-6	1	T	17:07	X	X														
CCV 480-146309/24	1		17:10	X	X														
CCB 480-146309/25	1		17:12	X	X														
CCVL 480-146309/26	1		17:15	X	X														
480-47938-7	1	T	17:17	X	X														
480-47938-7 SD	5	T	17:19	X	X														
480-47938-7 PDS	1	T	17:22	X	X														
480-47938-7 MS	1	T	17:24	X	X														
480-47938-7 MSD	1	T	17:27	X	X														
480-47938-8	1	T	17:29	X	X														
480-47938-9	1	T	17:31	X	X														
ZZZZZZ			17:34																
ZZZZZZ			17:36																
CCV 480-146309/36	1		17:38	X	X														
CCB 480-146309/37	1		17:41	X	X														
CCVL 480-146309/38	1		17:43	X	X														
ZZZZZZ			17:46																
ZZZZZZ			17:48																
ZZZZZZ			17:50																
ZZZZZZ			17:53																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Instrument ID: ICAP1 Method: 6010C

Start Date: 10/18/2013 10:49 End Date: 10/18/2013 18:12

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
ZZZZZZ			17:55																		
ZZZZZZ			17:57																		
ZZZZZZ			18:00																		
ZZZZZZ			18:02																		
ZZZZZZ			18:05																		
CCV 480-146309/48			18:07																		
CCB 480-146309/49			18:10																		
CCVL 480-146309/50			18:12																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 10/16/2013 11:46 End Date: 10/16/2013 13:45

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				H g																	
ICV 480-145371/1	1		11:46	X																	
ICB 480-145371/2	1		11:48	X																	
ICVL 480-145371/3	1		11:50	X																	
CCV 480-145371/4			11:52																		
CCB 480-145371/5			11:54																		
ZZZZZZ			11:55																		
ZZZZZZ			11:57																		
ZZZZZZ			11:59																		
ZZZZZZ			12:01																		
ZZZZZZ			12:02																		
ZZZZZZ			12:04																		
ZZZZZZ			12:06																		
ZZZZZZ			12:07																		
ZZZZZZ			12:09																		
ZZZZZZ			12:11																		
CCV 480-145371/16			12:12																		
CCB 480-145371/17			12:14																		
ZZZZZZ			12:16																		
ZZZZZZ			12:18																		
ZZZZZZ			12:19																		
ZZZZZZ			12:21																		
ZZZZZZ			12:23																		
ZZZZZZ			12:25																		
ZZZZZZ			12:27																		
ZZZZZZ			12:28																		
ZZZZZZ			12:30																		
ZZZZZZ			12:32																		
CCV 480-145371/28	1		12:34	X																	
CCB 480-145371/29	1		12:36	X																	
ZZZZZZ			12:37																		
ZZZZZZ			12:39																		
ZZZZZZ			12:41																		
ZZZZZZ			12:42																		
MB 480-145279/1-A	1	T	12:44	X																	
LCS 480-145279/2-A	1	T	12:46	X																	
ZZZZZZ			12:47																		
ZZZZZZ			12:49																		
480-47938-1	1	T	12:51	X																	
480-47938-2	1	T	12:52	X																	
CCV 480-145371/40	1		12:54	X																	
CCB 480-145371/41	1		12:56	X																	
480-47938-3	1	T	12:57	X																	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 10/16/2013 11:46 End Date: 10/16/2013 13:45

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				H g																	
480-47938-4	1	T	12:59	X																	
480-47938-5	1	T	13:01	X																	
480-47938-6	1	T	13:03	X																	
480-47938-7	1	T	13:04	X																	
480-47938-7 SD	5	T	13:06	X																	
480-47938-7 MS	1	T	13:08	X																	
480-47938-7 MSD	1	T	13:09	X																	
480-47938-8	1	T	13:11	X																	
480-47938-9	1	T	13:13	X																	
CCV 480-145371/52	1		13:14	X																	
CCB 480-145371/53	1		13:16	X																	
ZZZZZZ			13:18																		
ZZZZZZ			13:20																		
ZZZZZZ			13:21																		
ZZZZZZ			13:23																		
ZZZZZZ			13:25																		
ZZZZZZ			13:26																		
ZZZZZZ			13:28																		
ZZZZZZ			13:30																		
ZZZZZZ			13:32																		
ZZZZZZ			13:34																		
CCV 480-145371/64			13:35																		
CCB 480-145371/65			13:37																		
ZZZZZZ			13:39																		
ZZZZZZ			13:40																		
CCVL 480-145371/68	1		13:42	X																	
CCV 480-145371/69			13:44																		
CCB 480-145371/70			13:45																		

Prep Types

T = Total/NA

Run File: I1101813A

Instrument: ICAP1

Analyst: LMH

Data Review: UM/10/21/13

Spikes IDs: 1311053(W1), 1311054 (W2), 1622883(Sn), 1451134(Ag), 1451136(Si), 1320125(TCLP),
1296944 (Sr TCLP)

Pipette IDs: 08-20-13-(1-7,8,10,13,14)

Internal Standard:1678125

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I1101813A	IC-1673361	10/18/13 10:49 AM	Standard
2	I1101813A	IC-1663531	10/18/13 10:52 AM	Standard
3	I1101813A	IC-1663529	10/18/13 10:54 AM	Standard
4	I1101813A	IC-1663480	10/18/13 10:56 AM	Standard
5	I1101813A	ICV-1678117	10/18/13 10:58 AM	QC
6	I1101813A	ICB-1673361	10/18/13 11:01 AM	QC
7	I1101813A	ICVL-1680809	10/18/13 11:03 AM	QC
8	I1101813A	ICSA-1674798	10/18/13 11:06 AM	QC
9	I1101813A	ICSAB-1674815	10/18/13 11:08 AM	QC
10	I1101813A	CCV-1673279	10/18/13 11:11 AM	QC
11	I1101813A	CCB-1673361	10/18/13 11:13 AM	QC
12	I1101813A	CCVL-1680809	10/18/13 11:16 AM	QC
13	I1101813A	MB 480-145615/1-A	10/18/13 11:18 AM	Unknown
14	I1101813A	LCS 480-145615/2-A	10/18/13 11:20 AM	Unknown
15	I1101813A	CCV	10/18/13 11:23 AM	QC
16	I1101813A	CCB	10/18/13 11:25 AM	QC
17	I1101813A	CCVL	10/18/13 11:27 AM	QC
18	I1101813A	480-48106-A-1-A	10/18/13 11:30 AM	Unknown
19	I1101813A	480-48106-A-2-A	10/18/13 11:32 AM	Unknown
20	I1101813A	480-48106-A-2-A SD@5	10/18/13 11:35 AM	Unknown
21	I1101813A	480-48106-A-2-A PDS	10/18/13 11:37 AM	Unknown
22	I1101813A	480-48106-A-2-B MS	10/18/13 11:39 AM	Unknown
23	I1101813A	480-48106-A-2-C MSD	10/18/13 11:42 AM	Unknown
24	I1101813A	MB 480-145322/1-A	10/18/13 11:44 AM	Unknown
25	I1101813A	LCSSRM 480-145322/2-	10/18/13 11:46 AM	Unknown
26	I1101813A	480-47940-A-1-B	10/18/13 11:49 AM	Unknown
27	I1101813A	CCV	10/18/13 11:51 AM	QC
28	I1101813A	CCB	10/18/13 11:54 AM	QC
29	I1101813A	CCVL	10/18/13 11:56 AM	QC
30	I1101813A	480-47940-A-1-B SD@5	10/18/13 11:59 AM	Unknown
31	I1101813A	480-47940-A-1-B PDS	10/18/13 12:01 PM	Unknown
32	I1101813A	480-47940-A-1-C MS	10/18/13 12:03 PM	Unknown
33	I1101813A	480-47940-A-1-D MSD	10/18/13 12:06 PM	Unknown
34	I1101813A	MB 480-144782/1-A	10/18/13 12:08 PM	Unknown
35	I1101813A	LCSSRM 480-144782/2-	10/18/13 12:11 PM	Unknown
36	I1101813A	480-47885-B-1-A	10/18/13 12:13 PM	Unknown
37	I1101813A	480-47885-B-2-A	10/18/13 12:15 PM	Unknown
38	I1101813A	480-47885-B-3-A	10/18/13 12:18 PM	Unknown
39	I1101813A	CCV	10/18/13 12:20 PM	QC
40	I1101813A	CCB	10/18/13 12:23 PM	QC

41	I1101813A	CCVL	10/18/13 12:25 PM QC
42	I1101813A	480-47885-B-4-A	10/18/13 12:27 PM Unknown
43	I1101813A	480-47885-B-5-A	10/18/13 12:30 PM Unknown
44	I1101813A	480-47885-B-6-A	10/18/13 12:32 PM Unknown
45	I1101813A	480-47885-B-6-A SD@5	10/18/13 12:35 PM Unknown
46	I1101813A	480-47885-B-6-A PDS	10/18/13 12:37 PM Unknown
47	I1101813A	480-47885-B-6-B MS	10/18/13 12:39 PM Unknown
48	I1101813A	480-47885-B-6-C MSD	10/18/13 12:42 PM Unknown
49	I1101813A	480-47885-B-7-A	10/18/13 12:44 PM Unknown
50	I1101813A	480-47885-B-8-A	10/18/13 12:47 PM Unknown
51	I1101813A	CCV	10/18/13 12:49 PM QC
52	I1101813A	CCB	10/18/13 12:51 PM QC
53	I1101813A	CCVL	10/18/13 12:54 PM QC
54	I1101813A	480-47885-B-9-A	10/18/13 12:56 PM Unknown
55	I1101813A	480-47885-B-10-A	10/18/13 12:58 PM Unknown
56	I1101813A	480-47885-B-11-A	10/18/13 01:01 PM Unknown
57	I1101813A	480-47885-B-12-A	10/18/13 01:03 PM Unknown
58	I1101813A	480-47684-D-1-A	10/18/13 01:06 PM Unknown
59	I1101813A	MB 480-143793/1-A	10/18/13 01:08 PM Unknown
60	I1101813A	LCS 480-143793/2-A	10/18/13 01:11 PM Unknown
61	I1101813A	480-47504-A-1-A	10/18/13 01:13 PM Unknown
62	I1101813A	MB 480-144804/1-B	10/18/13 01:15 PM Unknown
63	I1101813A	CCV	10/18/13 01:18 PM QC
64	I1101813A	CCB	10/18/13 01:20 PM QC
65	I1101813A	CCVL	10/18/13 01:22 PM QC
66	I1101813A	LCS 480-144804/2-B	10/18/13 01:25 PM Unknown
67	I1101813A	480-47856-P-1-B	10/18/13 01:27 PM Unknown
68	I1101813A	480-47854-P-1-B	10/18/13 01:30 PM Unknown
69	I1101813A	480-47634-D-1-B	10/18/13 01:32 PM Unknown
70	I1101813A	480-47634-D-1-B SD@5	10/18/13 01:35 PM Unknown
71	I1101813A	480-47634-D-1-B PDS	10/18/13 01:37 PM Unknown
72	I1101813A	480-47634-D-1-C MS	10/18/13 01:39 PM Unknown
73	I1101813A	480-47634-D-1-D MSD	10/18/13 01:42 PM Unknown
74	I1101813A	480-47634-D-2-B	10/18/13 01:44 PM Unknown
75	I1101813A	CCV	10/18/13 01:46 PM QC
76	I1101813A	CCB	10/18/13 01:49 PM QC
77	I1101813A	CCVL	10/18/13 01:51 PM QC
78	I1101813A	480-47634-D-3-B	10/18/13 01:54 PM Unknown
79	I1101813A	480-47864-B-1-C@5	10/18/13 01:56 PM Unknown
80	I1101813A	480-47864-B-1-C@20	10/18/13 01:58 PM Unknown
81	I1101813A	480-47864-B-1-C@100	10/18/13 02:01 PM Unknown
82	I1101813A	MB 480-144115/1-B	10/18/13 02:04 PM Unknown
83	I1101813A	LCS 480-144115/2-B	10/18/13 02:06 PM Unknown
84	I1101813A	480-47668-H-1-A	10/18/13 02:08 PM Unknown
85	I1101813A	480-47668-H-1-A@5	10/18/13 02:11 PM Unknown
86	I1101813A	480-47668-H-2-A	10/18/13 02:13 PM Unknown
87	I1101813A	CCV	10/18/13 02:16 PM QC
88	I1101813A	CCB	10/18/13 02:18 PM QC
89	I1101813A	CCVL	10/18/13 02:21 PM QC
90	I1101813A	480-47668-H-4-A	10/18/13 02:23 PM Unknown

91	I1101813A	480-47642-C-3-A	10/18/13 02:25 PM Unknown
92	I1101813A	MB 480-145303/1-A	10/18/13 02:28 PM Unknown
93	I1101813A	LCS 480-145303/2-A	10/18/13 02:30 PM Unknown
94	I1101813A	480-47466-B-1-B	10/18/13 02:33 PM Unknown
95	I1101813A	480-47466-B-2-B	10/18/13 02:35 PM Unknown
96	I1101813A	480-47466-B-3-B	10/18/13 02:38 PM Unknown
97	I1101813A	480-47466-B-4-D	10/18/13 02:40 PM Unknown
98	I1101813A	480-47466-B-4-D SD@5	10/18/13 02:43 PM Unknown
99	I1101813A	CCV	10/18/13 02:45 PM QC
100	I1101813A	CCB	10/18/13 02:47 PM QC
101	I1101813A	CCVL	10/18/13 02:50 PM QC
102	I1101813A	480-47466-B-4-D PDS	10/18/13 02:52 PM Unknown
103	I1101813A	480-47466-B-4-E MS	10/18/13 02:55 PM Unknown
104	I1101813A	480-47466-B-4-F MSD	10/18/13 02:57 PM Unknown
105	I1101813A	480-47466-B-5-B	10/18/13 03:00 PM Unknown
106	I1101813A	480-47466-B-6-B	10/18/13 03:02 PM Unknown
107	I1101813A	480-47466-B-8-B	10/18/13 03:05 PM Unknown
108	I1101813A	480-47466-B-9-B	10/18/13 03:07 PM Unknown
109	I1101813A	480-47466-B-10-B	10/18/13 03:10 PM Unknown
110	I1101813A	480-47466-B-11-B	10/18/13 03:12 PM Unknown
111	I1101813A	CCV	10/18/13 03:15 PM QC
112	I1101813A	CCB	10/18/13 03:17 PM QC
113	I1101813A	CCVL	10/18/13 03:20 PM QC
114	I1101813A	480-47466-B-12-B	10/18/13 03:22 PM Unknown
115	I1101813A	480-47466-B-12-C MS	10/18/13 03:24 PM Unknown
116	I1101813A	480-47466-B-12-D MSD	10/18/13 03:27 PM Unknown
117	I1101813A	480-47466-B-13-D	10/18/13 03:29 PM Unknown
118	I1101813A	480-47466-B-14-B	10/18/13 03:32 PM Unknown
119	I1101813A	480-47460-J-2-C	10/18/13 03:34 PM Unknown
120	I1101813A	480-47454-E-1-B	10/18/13 03:37 PM Unknown
121	I1101813A	MB 480-144665/17-B	10/18/13 03:39 PM Unknown
122	I1101813A	LCS 480-144665/18-B	10/18/13 03:42 PM Unknown
123	I1101813A	CCV	10/18/13 03:44 PM QC
124	I1101813A	CCB	10/18/13 03:46 PM QC
125	I1101813A	CCVL	10/18/13 03:49 PM QC
126	I1101813A	480-47960-B-1-A	10/18/13 03:51 PM Unknown
127	I1101813A	480-47960-B-2-A	10/18/13 03:54 PM Unknown
128	I1101813A	480-47960-B-3-A	10/18/13 03:56 PM Unknown
129	I1101813A	480-47960-B-3-A SD@5	10/18/13 03:58 PM Unknown
130	I1101813A	480-47960-B-3-A PDS	10/18/13 04:01 PM Unknown
131	I1101813A	480-47960-B-3-B MS	10/18/13 04:03 PM Unknown
132	I1101813A	480-47960-B-3-C MSD	10/18/13 04:05 PM Unknown
133	I1101813A	480-47960-B-4-A	10/18/13 04:08 PM Unknown
134	I1101813A	480-47960-B-5-A	10/18/13 04:10 PM Unknown
135	I1101813A	CCV	10/18/13 04:12 PM QC
136	I1101813A	CCB	10/18/13 04:15 PM QC
137	I1101813A	CCVL	10/18/13 04:17 PM QC
138	I1101813A	480-47960-B-6-A	10/18/13 04:20 PM Unknown
139	I1101813A	480-47960-B-7-A	10/18/13 04:22 PM Unknown
140	I1101813A	480-47960-B-8-A	10/18/13 04:24 PM Unknown

141	I1101813A	480-47960-B-9-A	10/18/13 04:27 PM Unknown
142	I1101813A	480-47960-B-10-A	10/18/13 04:29 PM Unknown
143	I1101813A	480-47992-D-4-A	10/18/13 04:31 PM Unknown
144	I1101813A	480-47992-D-5-A	10/18/13 04:34 PM Unknown
145	I1101813A	480-47992-D-6-A	10/18/13 04:36 PM Unknown
146	I1101813A	480-47992-D-7-A	10/18/13 04:39 PM Unknown
147	I1101813A	CCV	10/18/13 04:41 PM QC
148	I1101813A	CCB	10/18/13 04:44 PM QC
149	I1101813A	CCVL	10/18/13 04:46 PM QC
150	I1101813A	480-47992-D-8-A	10/18/13 04:48 PM Unknown
151	I1101813A	MB 480-145224/1-A	10/18/13 04:51 PM Unknown
152	I1101813A	LCS 480-145224/2-A	10/18/13 04:53 PM Unknown
153	I1101813A	480-47938-A-1-A	10/18/13 04:56 PM Unknown
154	I1101813A	480-47938-A-2-A	10/18/13 04:58 PM Unknown
155	I1101813A	480-47938-A-3-A	10/18/13 05:00 PM Unknown
156	I1101813A	480-47938-A-4-A	10/18/13 05:03 PM Unknown
157	I1101813A	480-47938-A-5-A	10/18/13 05:05 PM Unknown
158	I1101813A	480-47938-A-6-A	10/18/13 05:07 PM Unknown
159	I1101813A	CCV	10/18/13 05:10 PM QC
160	I1101813A	CCB	10/18/13 05:12 PM QC
161	I1101813A	CCVL	10/18/13 05:15 PM QC
162	I1101813A	480-47938-A-7-A	10/18/13 05:17 PM Unknown
163	I1101813A	480-47938-A-7-A SD@5	10/18/13 05:19 PM Unknown
164	I1101813A	480-47938-A-7-A PDS	10/18/13 05:22 PM Unknown
165	I1101813A	480-47938-A-7-B MS	10/18/13 05:24 PM Unknown
166	I1101813A	480-47938-A-7-C MSD	10/18/13 05:27 PM Unknown
167	I1101813A	480-47938-A-8-A	10/18/13 05:29 PM Unknown
168	I1101813A	480-47938-A-9-A	10/18/13 05:31 PM Unknown
169	I1101813A	480-47918-E-1-A	10/18/13 05:34 PM Unknown
170	I1101813A	480-47918-E-2-A	10/18/13 05:36 PM Unknown
171	I1101813A	CCV	10/18/13 05:38 PM QC
172	I1101813A	CCB	10/18/13 05:41 PM QC
173	I1101813A	CCVL	10/18/13 05:43 PM QC
174	I1101813A	480-47918-E-3-A	10/18/13 05:46 PM Unknown
175	I1101813A	480-47922-P-1-A	10/18/13 05:48 PM Unknown
176	I1101813A	480-47957-B-1-A	10/18/13 05:50 PM Unknown
177	I1101813A	480-47975-E-1-A	10/18/13 05:53 PM Unknown
178	I1101813A	480-47975-E-2-A	10/18/13 05:55 PM Unknown
179	I1101813A	480-47975-E-3-A	10/18/13 05:57 PM Unknown
180	I1101813A	480-47941-D-1-A	10/18/13 06:00 PM Unknown
181	I1101813A	480-47416-C-6-D	10/18/13 06:02 PM Unknown
182	I1101813A	480-47398-C-1-D	10/18/13 06:05 PM Unknown
183	I1101813A	CCV	10/18/13 06:07 PM QC
184	I1101813A	CCB	10/18/13 06:10 PM QC
185	I1101813A	CCVL	10/18/13 06:12 PM QC
186	I1101813A	MB 480-145296/1-A	10/18/13 06:14 PM Unknown
187	I1101813A	LCS 480-145296/2-A	10/18/13 06:17 PM Unknown
188	I1101813A	480-47620-A-1-B	10/18/13 06:19 PM Unknown
189	I1101813A	480-47620-A-1-B SD@5	10/18/13 06:21 PM Unknown
190	I1101813A	480-47620-A-1-B PDS	10/18/13 06:24 PM Unknown

191	I1101813A	480-47620-A-1-C MS	10/18/13 06:26 PM Unknown
192	I1101813A	480-47620-A-1-D MSD	10/18/13 06:28 PM Unknown
193	I1101813A	MB 480-144804/1-E	10/18/13 06:31 PM Unknown
194	I1101813A	LCS 480-144804/2-E	10/18/13 06:33 PM Unknown
195	I1101813A	CCV	10/18/13 06:36 PM QC
196	I1101813A	CCB	10/18/13 06:38 PM QC
197	I1101813A	CCVL	10/18/13 06:40 PM QC
198	I1101813A	480-47660-F-1-E	10/18/13 06:43 PM Unknown
199	I1101813A	480-47660-F-1-E SD@5	10/18/13 06:45 PM Unknown
200	I1101813A	480-47660-F-1-E PDS	10/18/13 06:48 PM Unknown
201	I1101813A	480-47660-F-1-F MS	10/18/13 06:50 PM Unknown
202	I1101813A	480-47660-F-1-G MSD	10/18/13 06:52 PM Unknown
203	I1101813A	MB 480-144226/1-A	10/18/13 06:55 PM Unknown
204	I1101813A	LCS 480-144226/2-A	10/18/13 06:57 PM Unknown
205	I1101813A	480-47704-E-1-A	10/18/13 06:59 PM Unknown
206	I1101813A	480-47704-E-2-A	10/18/13 07:02 PM Unknown
207	I1101813A	CCV	10/18/13 07:05 PM QC
208	I1101813A	CCB	10/18/13 07:07 PM QC
209	I1101813A	CCVL	10/18/13 07:09 PM QC
210	I1101813A	480-47704-E-3-A	10/18/13 07:12 PM Unknown
211	I1101813A	480-47704-E-3-A SD@5	10/18/13 07:14 PM Unknown
212	I1101813A	480-47704-E-3-A PDS	10/18/13 07:17 PM Unknown
213	I1101813A	480-47704-E-3-B MS	10/18/13 07:19 PM Unknown
214	I1101813A	480-47704-E-3-C MSD	10/18/13 07:22 PM Unknown
215	I1101813A	480-47704-E-4-A	10/18/13 07:24 PM Unknown
216	I1101813A	480-47704-E-5-A	10/18/13 07:27 PM Unknown
217	I1101813A	480-47704-E-6-A	10/18/13 07:30 PM Unknown
218	I1101813A	480-47704-E-7-A	10/18/13 07:32 PM Unknown
219	I1101813A	CCV	10/18/13 07:35 PM QC
220	I1101813A	CCB	10/18/13 07:37 PM QC
221	I1101813A	CCVL	10/18/13 07:40 PM QC
222	I1101813A	480-47680-C-1-A	10/18/13 07:42 PM Unknown
223	I1101813A	480-47680-C-2-A	10/18/13 07:44 PM Unknown
224	I1101813A	480-47680-C-3-A	10/18/13 07:47 PM Unknown
225	I1101813A	480-47680-C-4-A	10/18/13 07:50 PM Unknown
226	I1101813A	480-47680-C-5-A	10/18/13 07:52 PM Unknown
227	I1101813A	480-47680-C-6-A	10/18/13 07:55 PM Unknown
228	I1101813A	480-47680-C-7-A	10/18/13 07:58 PM Unknown
229	I1101813A	480-47680-C-8-A	10/18/13 08:00 PM Unknown
230	I1101813A	480-47680-C-9-A	10/18/13 08:03 PM Unknown
231	I1101813A	CCV	10/18/13 08:05 PM QC
232	I1101813A	CCB	10/18/13 08:08 PM QC
233	I1101813A	CCVL	10/18/13 08:10 PM QC
234	I1101813A	480-47680-C-10-A	10/18/13 08:13 PM Unknown
235	I1101813A	480-47680-C-11-A	10/18/13 08:15 PM Unknown
236	I1101813A	480-47680-C-12-A	10/18/13 08:18 PM Unknown
237	I1101813A	MB 480-144276/11-B	10/18/13 08:20 PM Unknown
238	I1101813A	LCS 480-144276/12-B	10/18/13 08:22 PM Unknown
239	I1101813A	480-47759-D-1-A	10/18/13 08:25 PM Unknown
240	I1101813A	480-47759-D-2-A	10/18/13 08:27 PM Unknown

241	I1101813A	480-47759-D-3-A	10/18/13 08:29 PM Unknown
242	I1101813A	480-47759-D-4-A	10/18/13 08:32 PM Unknown
243	I1101813A	CCV	10/18/13 08:34 PM QC
244	I1101813A	CCB	10/18/13 08:36 PM QC
245	I1101813A	CCVL	10/18/13 08:39 PM QC
246	I1101813A	480-47759-D-4-A SD@5	10/18/13 08:41 PM Unknown
247	I1101813A	480-47759-D-4-A PDS	10/18/13 08:44 PM Unknown
248	I1101813A	480-47759-D-4-B MS	10/18/13 08:46 PM Unknown
249	I1101813A	480-47759-D-4-C MSD	10/18/13 08:48 PM Unknown
250	I1101813A	480-47765-A-1-A	10/18/13 08:51 PM Unknown
251	I1101813A	480-47765-B-2-A	10/18/13 08:53 PM Unknown
252	I1101813A	480-47765-B-3-A	10/18/13 08:55 PM Unknown
253	I1101813A	480-47765-A-4-A	10/18/13 08:58 PM Unknown
254	I1101813A	480-47765-A-5-A	10/18/13 09:00 PM Unknown
255	I1101813A	CCV	10/18/13 09:03 PM QC
256	I1101813A	CCB	10/18/13 09:05 PM QC
257	I1101813A	CCVL	10/18/13 09:07 PM QC
258	I1101813A	480-47773-B-1-A	10/18/13 09:10 PM Unknown
259	I1101813A	480-47773-B-2-A	10/18/13 09:12 PM Unknown
260	I1101813A	480-47773-B-3-A	10/18/13 09:15 PM Unknown
261	I1101813A	480-47786-C-1-A	10/18/13 09:17 PM Unknown
262	I1101813A	480-47786-C-2-A	10/18/13 09:19 PM Unknown
263	I1101813A	480-47786-C-3-A	10/18/13 09:22 PM Unknown
264	I1101813A	480-47786-C-4-A	10/18/13 09:24 PM Unknown
265	I1101813A	480-47786-C-5-A	10/18/13 09:27 PM Unknown
266	I1101813A	47722-4 tot raw	10/18/13 09:29 PM Unknown
267	I1101813A	CCV	10/18/13 09:32 PM QC
268	I1101813A	CCB	10/18/13 09:34 PM QC
269	I1101813A	CCVL	10/18/13 09:37 PM QC
270	I1101813A	47632-2 tot raw	10/18/13 09:39 PM Unknown
271	I1101813A	47632-3 tot raw	10/18/13 09:41 PM Unknown
272	I1101813A	47580-1 sol raw	10/18/13 09:44 PM Unknown
273	I1101813A	47580-12 sol raw	10/18/13 09:46 PM Unknown
274	I1101813A	47580-7 sol raw	10/18/13 09:49 PM Unknown
275	I1101813A	RB	10/18/13 09:51 PM Unknown
276	I1101813A	CCVL-1680809	10/18/13 09:53 PM QC
277	I1101813A	ICSA-1674798	10/18/13 09:56 PM QC
278	I1101813A	ICSAB-1674815	10/18/13 09:58 PM QC
279	I1101813A	CCV	10/18/13 10:01 PM QC
280	I1101813A	CCB	10/18/13 10:03 PM QC
281	I1101813A	CCV	10/18/13 10:06 PM QC
282	I1101813A	CCB	10/18/13 10:08 PM QC

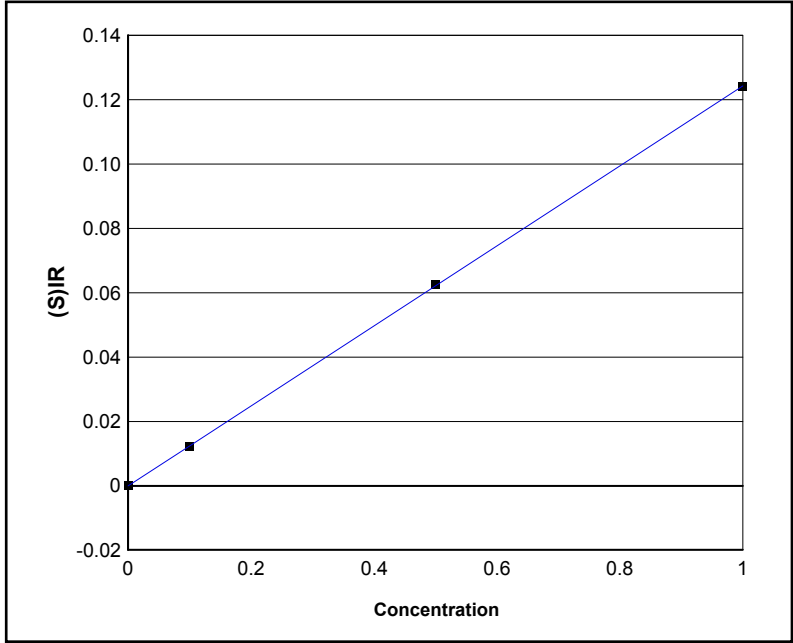
I1101813A

Author:LMH

Published:10/21/2013 8:53:01AM

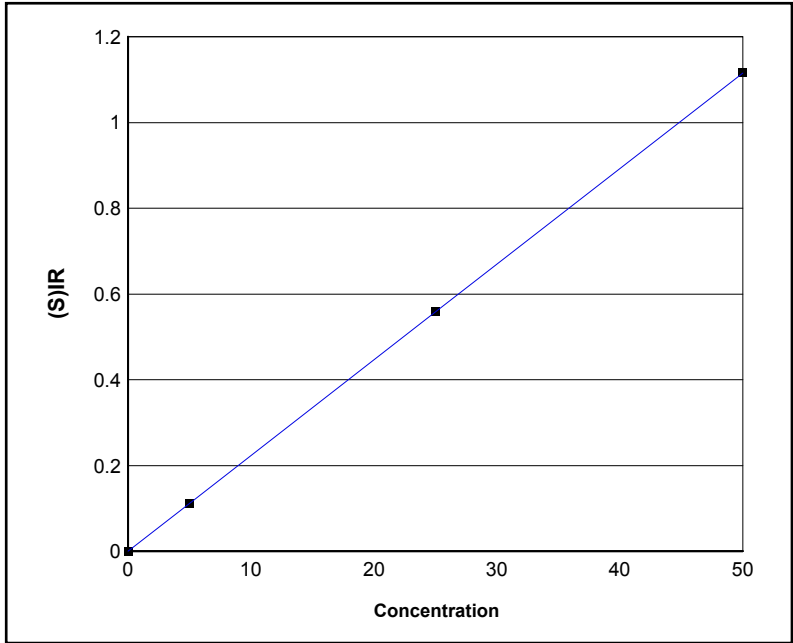
Instrument Name:iCAP1Serial Number:20094603

Method Name:ICAP1 (459)



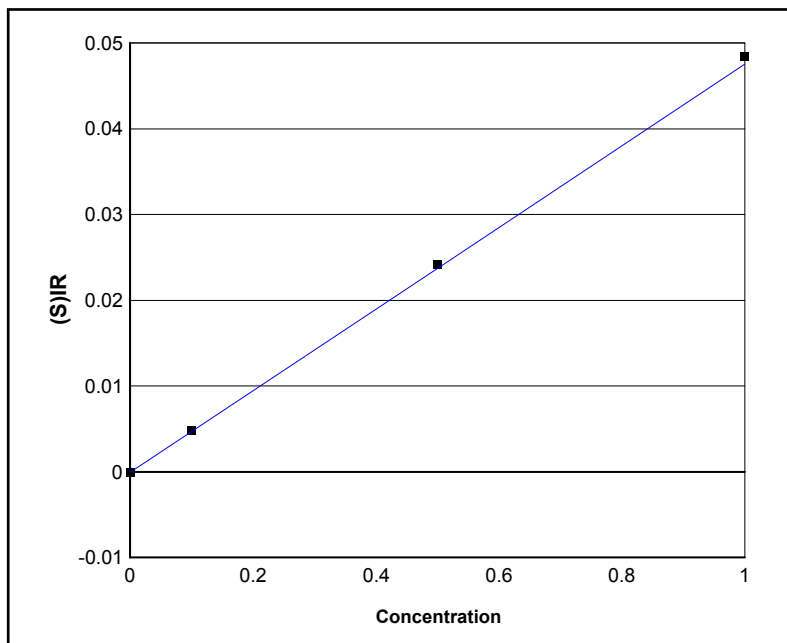
Element Name:		Ag	
Element Wavelength:		Ag 328.068 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		-0.000068167	
A1 (Gain):		0.12437	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:		1.0000	Slope factor: 1.0000
Y Int:		0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000015909	0.0000015909	0.00000	-0.000067970	0.000055408	1
IC4	1.0000	0.99957	-0.00042581	-0.042581	0.12426	0.00017219	1
IC2	0.10000	0.097958	-0.0020418	-2.0418	0.012116	0.000010341	1
IC3	0.50000	0.50247	0.0024677	0.49353	0.062429	0.000097967	1



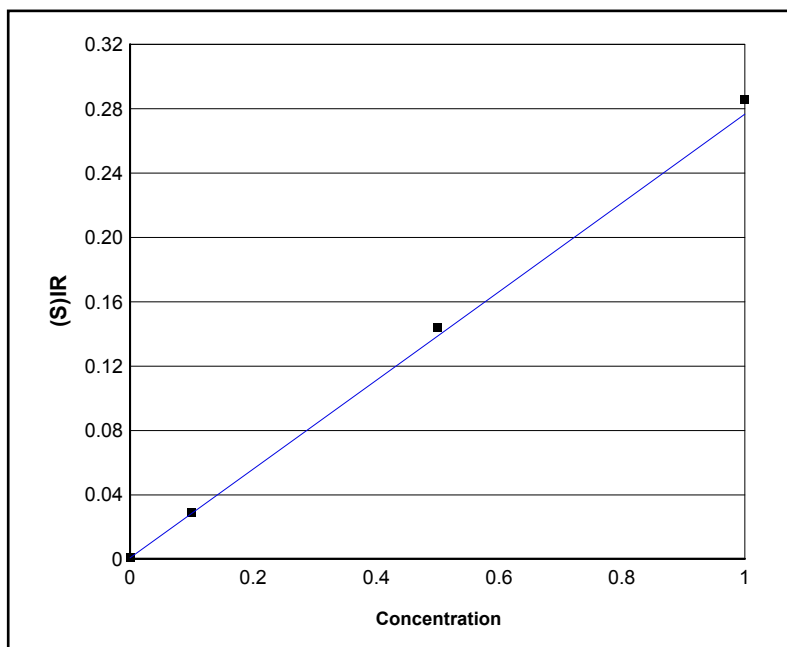
Element Name:		Al	
Element Wavelength:		Al 308.215 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		1.00000	
A0 (Offset):		0.00027219	
A1 (Gain):		0.022313	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:		1.0000	Slope factor: 1.0000
Y Int:		0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000015541	0.000015541	0.00000	0.00027253	0.00021160	1
IC4	50.000	50.006	0.0057686	0.011537	1.1161	0.0076921	1
IC2	5.0000	4.9813	-0.018705	-0.37410	0.11142	0.00035114	1
IC3	25.000	25.013	0.012936	0.051745	0.55839	0.0034807	1



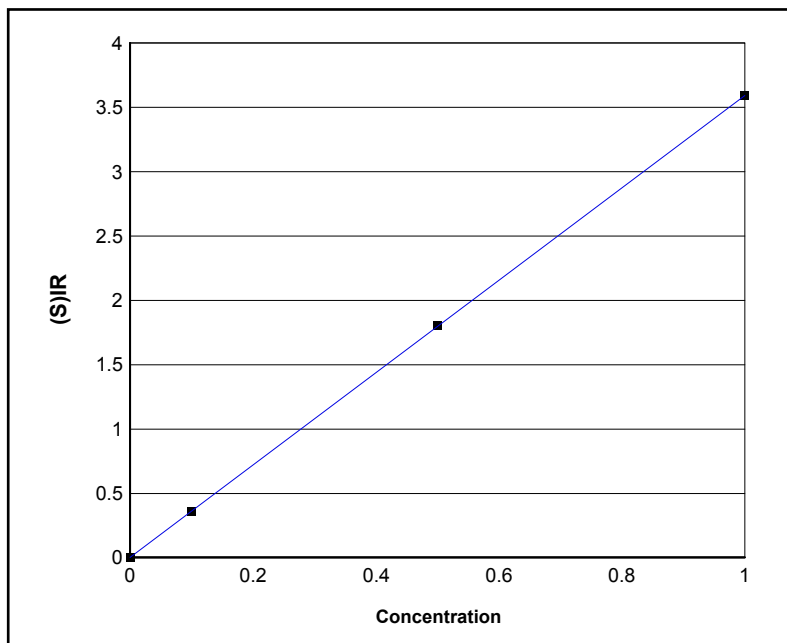
Element Name:		As
Element Wavelength:		As 189.042 nm
Concentration Units:		ppm
Date of Calibration:		10/18/2013 10:58:55AM
Date of Fit:		10/18/2013 10:58:55AM
Type of Fit:		Linear
Correlation:		1.00000
A0 (Offset):		-0.000066920
A1 (Gain):		0.047625
A2 (Curvature):		0.00000
n (Exponent):		1.0000
Reslope		QC Normalize
Slope:	1.0000	Slope factor: 1.0000
Y Int:	0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000002356	0.0000002356	0.00000	-0.000066908	0.000051579	1
IC4	1.0000	0.99969	-0.00030989	-0.030989	0.048430	0.000068503	1
IC2	0.10000	0.099667	-0.00033327	-0.33327	0.0047684	0.00011298	1
IC3	0.50000	0.50064	0.00064316	0.12863	0.024219	0.000011271	1



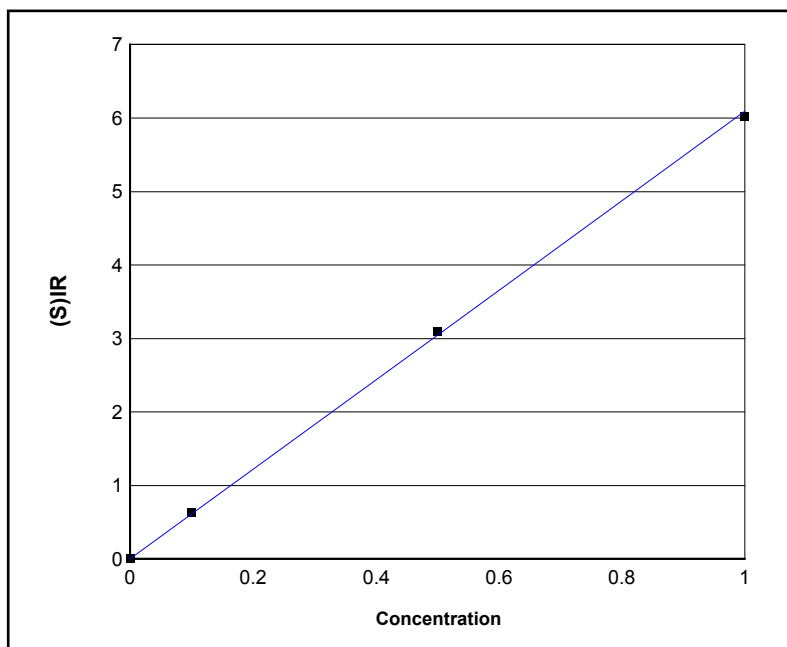
Element Name:		B
Element Wavelength:		B 208.959 nm
Concentration Units:		ppm
Date of Calibration:		10/18/2013 10:58:55AM
Date of Fit:		10/18/2013 10:58:55AM
Type of Fit:		Linear
Correlation:		1.00000
A0 (Offset):		0.00069322
A1 (Gain):		0.27592
A2 (Curvature):		0.00000
n (Exponent):		1.0000
Reslope		QC Normalize
Slope:	1.0000	Slope factor: 1.0000
Y Int:	0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000003071	0.0000003071	0.00000	0.00069330	0.00010125	1
IC4	1.0000	0.99836	-0.0016402	-0.16402	0.28598	0.00010723	1
IC2	0.10000	0.099411	-0.00058888	-0.58888	0.029105	0.00013305	1
IC3	0.50000	0.50223	0.0022291	0.44581	0.14418	0.000030484	1



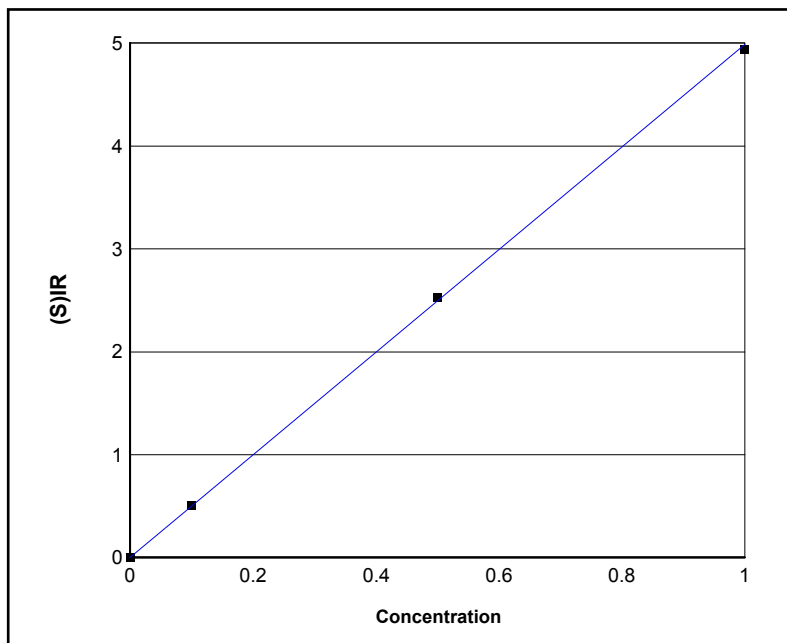
Element Name:		Ba	
Element Wavelength:		Ba 455.403 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		1.00000	
A0 (Offset):		0.00036335	
A1 (Gain):		3.5917	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000005764	0.0000005764	0.00000	0.00036542	0.00069395	1
IC4	1.0000	0.99967	-0.00033457	-0.033457	3.5909	0.0070551	1
IC2	0.10000	0.099238	-0.00076230	-0.76230	0.35680	0.0011339	1
IC3	0.50000	0.50110	0.0010969	0.21937	1.8002	0.0033123	1



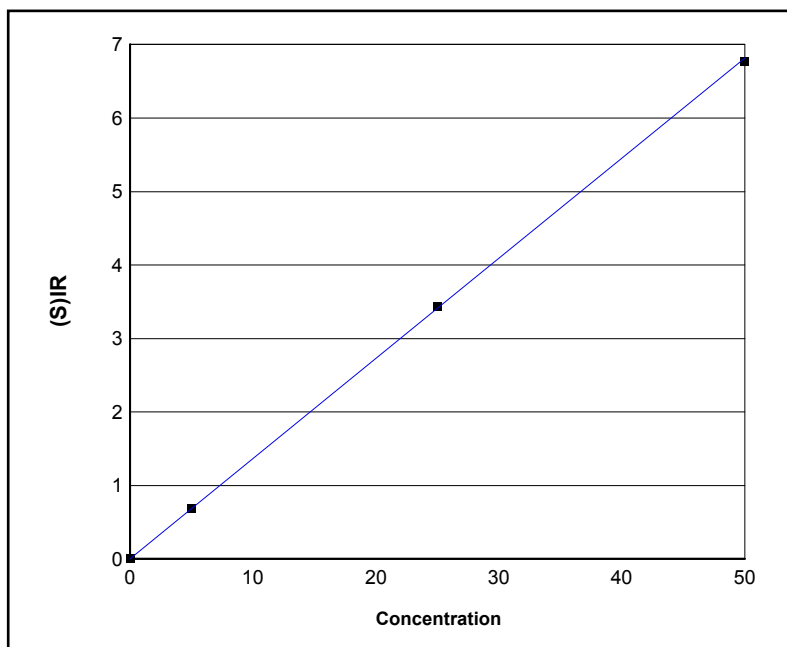
Element Name:		Ba	
Element Wavelength:		Ba 455.403 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99988	
A0 (Offset):		0.00096359	
A1 (Gain):		6.0896	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000035941	-0.0000035941	0.00000	0.00094170	0.000069124	1
IC4	1.0000	0.98831	-0.011694	-1.1694	6.0194	0.012648	1
IC2	0.10000	0.10303	0.0030309	3.0309	0.62838	0.00062492	1
IC3	0.50000	0.50866	0.0086631	1.7326	3.0985	0.0018401	1



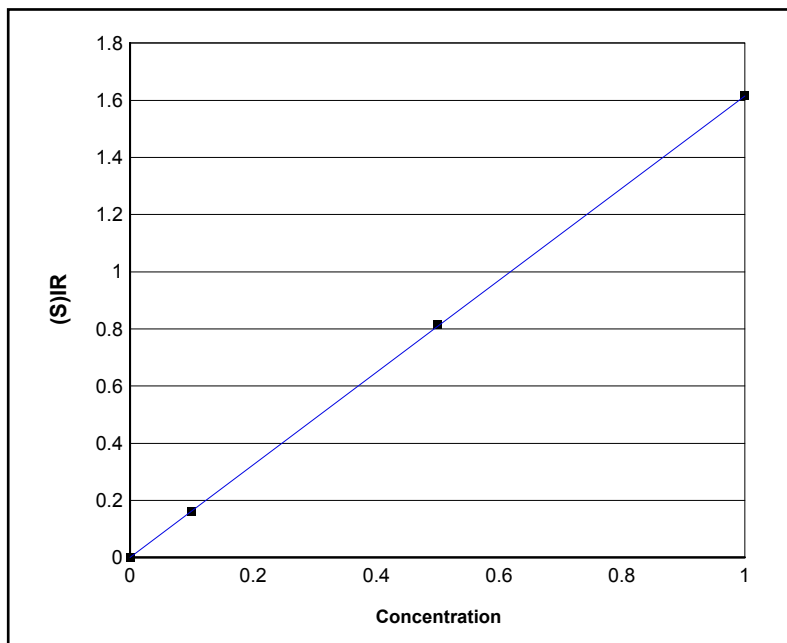
Element Name:		Be	
Element Wavelength:		Be 313.042 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99994	
A0 (Offset):		0.00062985	
A1 (Gain):		4.9869	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000018279	-0.0000018279	0.00000	0.00062074	0.00024256	1
IC4	1.0000	0.99147	-0.0085296	-0.85296	4.9412	0.014700	1
IC2	0.10000	0.10122	0.0012187	1.2187	0.50502	0.00038711	1
IC3	0.50000	0.50731	0.0073110	1.4622	2.5287	0.0012517	1



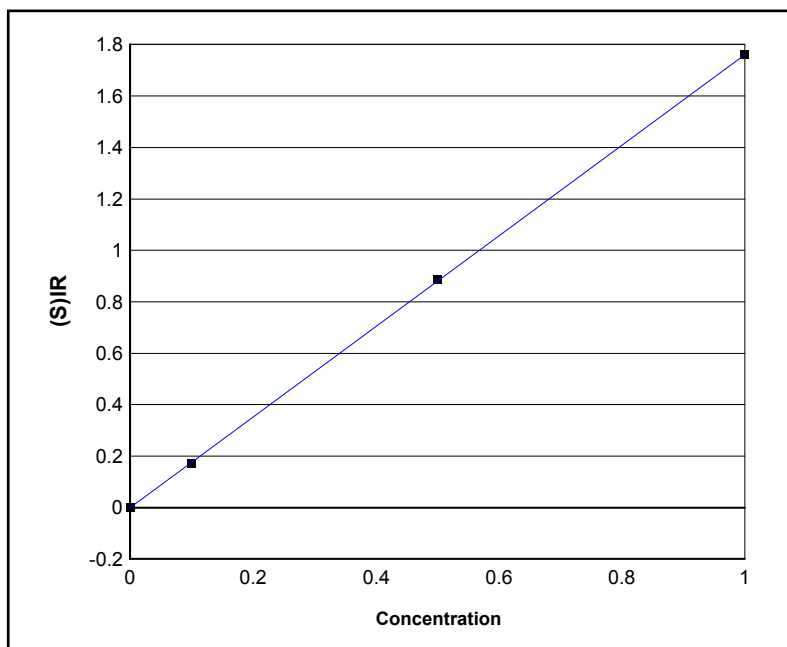
Element Name:		Ca	
Element Wavelength:		Ca 317.933 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		0.0050769	
A1 (Gain):		0.13617	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000059094	-0.000059094	0.00000	0.0050689	0.000025486	1
IC4	50.000	49.736	-0.26402	-0.52803	6.7774	0.034679	1
IC2	5.0000	5.0409	0.040865	0.81730	0.69147	0.0045482	1
IC3	25.000	25.223	0.22315	0.89260	3.4396	0.0021262	1



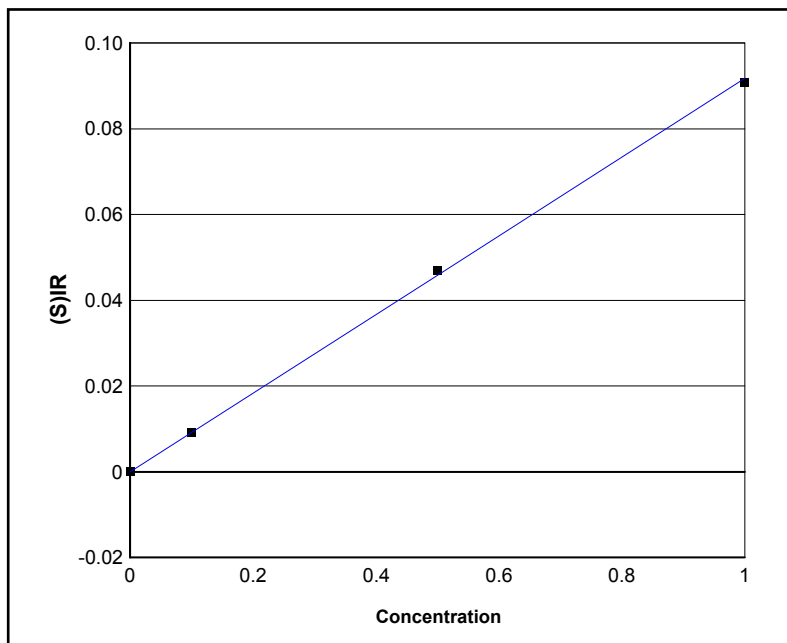
Element Name:		Cd	
Element Wavelength:		Cd 228.802 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99999	
A0 (Offset):		0.0010338	
A1 (Gain):		1.6145	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000001933	0.0000001933	0.00000	0.0010342	0.000045285	1
IC4	1.0000	0.99762	-0.0023812	-0.23812	1.6169	0.00048911	1
IC2	0.10000	0.099461	-0.00053933	-0.53933	0.16213	0.000086170	1
IC3	0.50000	0.50292	0.0029205	0.58410	0.81560	0.0015154	1



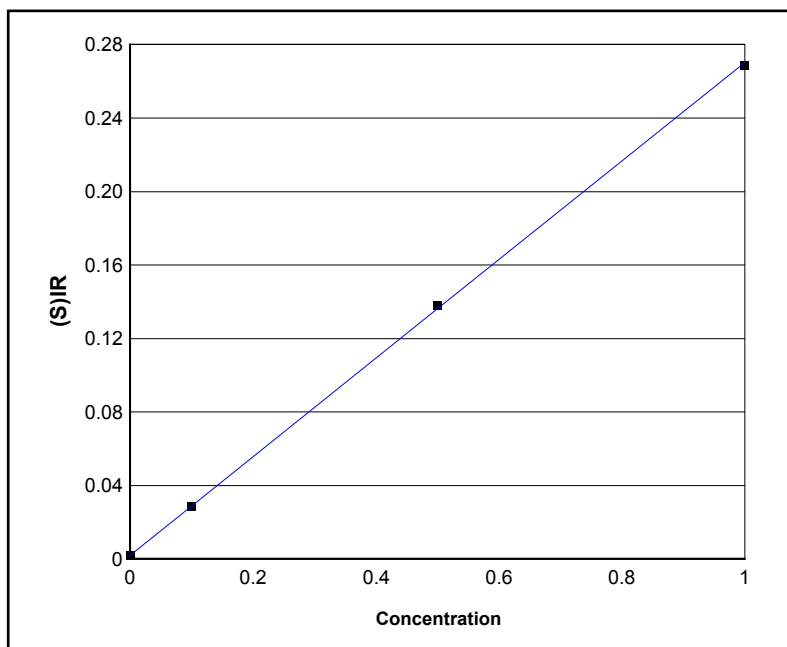
Element Name:		Co	
Element Wavelength:		Co 228.616 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		-0.00023251	
A1 (Gain):		1.7614	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000019978	0.0000019978	0.00000	-0.00022899	0.00013885	1
IC4	1.0000	0.99976	-0.00023948	-0.023948	1.7622	0.00089989	1
IC2	0.10000	0.097473	-0.0025272	-2.5272	0.17160	0.000016625	1
IC3	0.50000	0.50277	0.0027667	0.55334	0.88607	0.0028800	1



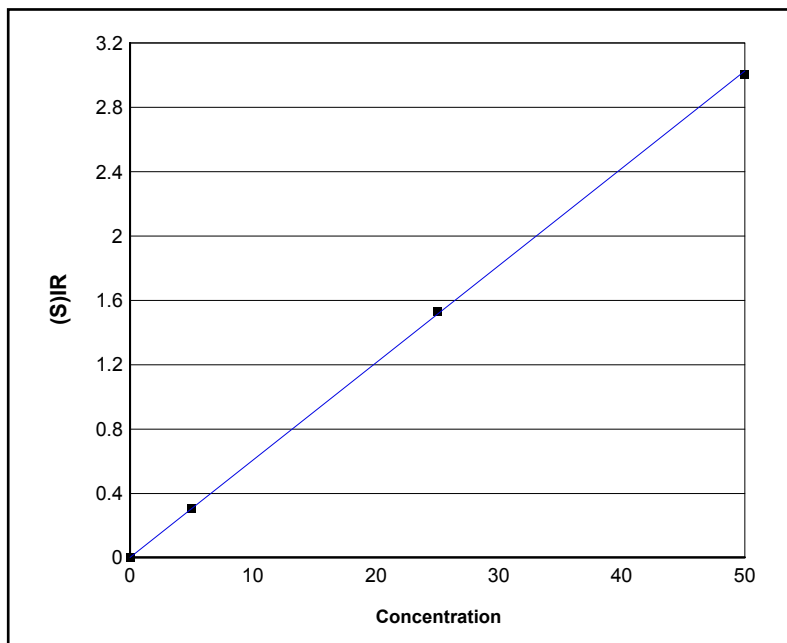
Element Name:		Cr	
Element Wavelength:		Cr 267.716 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99989	
A0 (Offset):		-0.000011985	
A1 (Gain):		0.091779	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00000	0.00000	0.00000	-0.000012100	0.000017703	1
IC4	1.0000	0.98892	-0.011084	-1.1084	0.090750	0.00056841	1
IC2	0.10000	0.10017	0.00017375	0.17375	0.0091819	0.000035910	1
IC3	0.50000	0.51091	0.010910	2.1820	0.046879	0.00014001	1



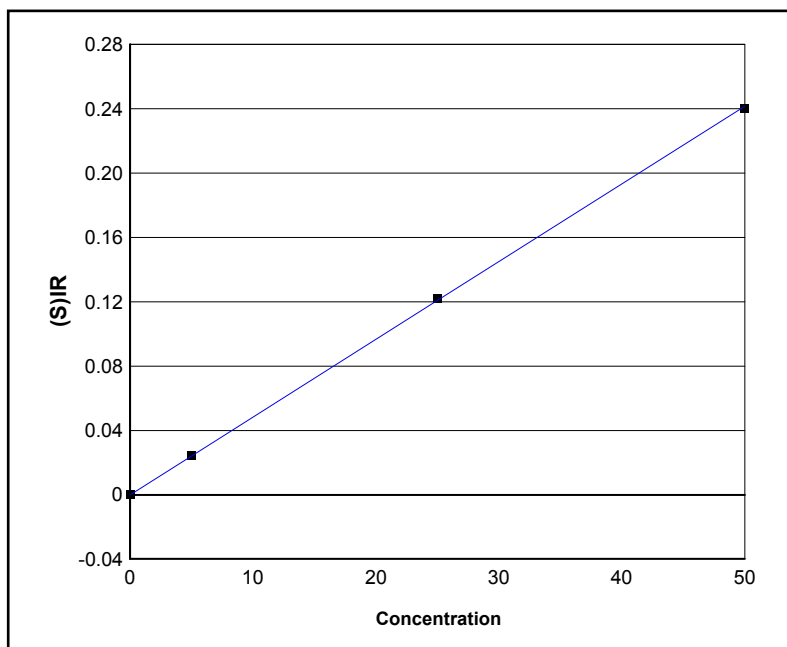
Element Name:		Cu	
Element Wavelength:		Cu 324.754 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99996	
A0 (Offset):		0.0020242	
A1 (Gain):		0.26824	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00000	0.00000	0.00000	0.0020243	0.000045997	1
IC4	1.0000	0.99450	-0.0054996	-0.54996	0.26849	0.00019419	1
IC2	0.10000	0.098776	-0.0012245	-1.2245	0.028490	0.000032976	1
IC3	0.50000	0.50672	0.0067241	1.3448	0.13780	0.000053776	1



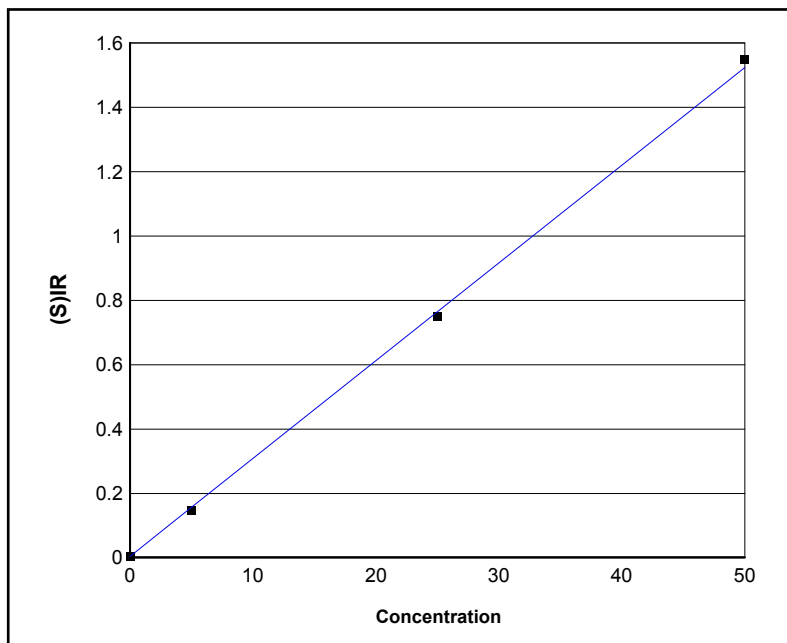
Element Name:		Fe	
Element Wavelength:		Fe 259.940 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99996	
A0 (Offset):		0.00073286	
A1 (Gain):		0.060537	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000088109	-0.000088109	0.00000	0.00072753	0.00018602	1
IC4	50.000	49.641	-0.35943	-0.71886	3.0058	0.0024328	1
IC2	5.0000	5.0652	0.065208	1.3042	0.30737	0.00051527	1
IC3	25.000	25.294	0.29422	1.1769	1.5320	0.00084174	1



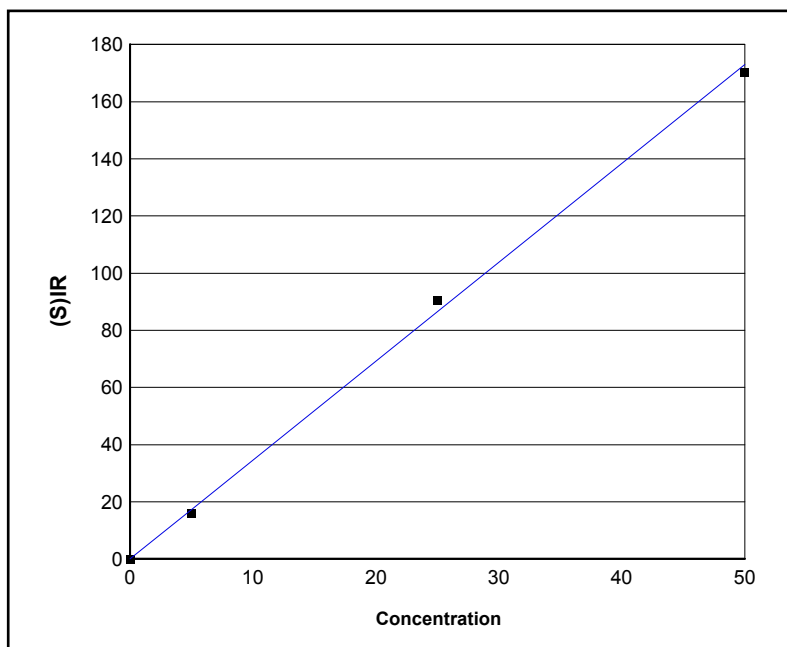
Element Name:		Fe	
Element Wavelength:		Fe 271.441 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99996	
A0 (Offset):		-0.000084079	
A1 (Gain):		0.0048367	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000082827	-0.000082827	0.00000	-0.000084480	0.00011128	1
IC4	50.000	49.665	-0.33490	-0.66979	0.24013	0.00087083	1
IC2	5.0000	5.0617	0.061672	1.2334	0.024398	0.00024253	1
IC3	25.000	25.273	0.27322	1.0929	0.12215	0.000027464	1



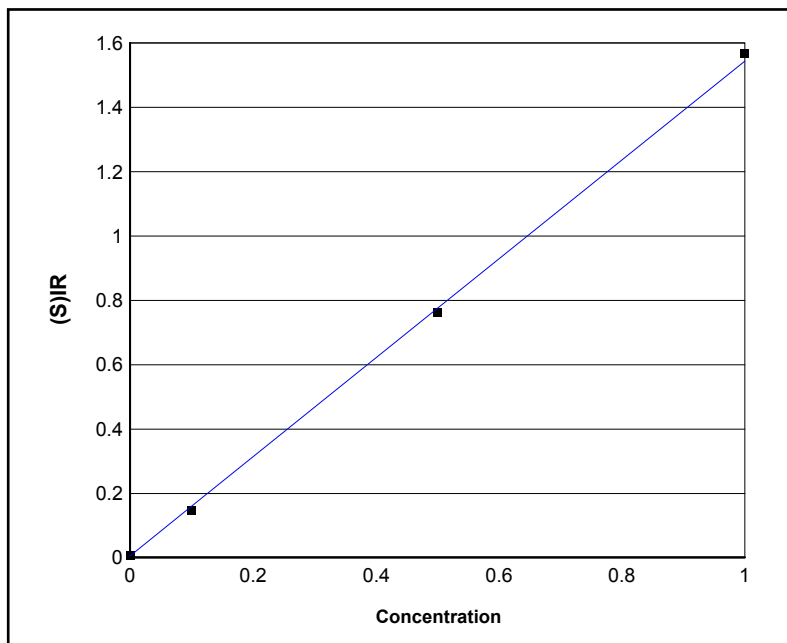
Element Name:		K
Element Wavelength:		K 766.490 nm
Concentration Units:		ppm
Date of Calibration:		10/18/2013 10:58:55AM
Date of Fit:		10/18/2013 10:58:55AM
Type of Fit:		Linear
Correlation:		0.99971
A0 (Offset):		0.0041135
A1 (Gain):		0.030401
A2 (Curvature):		0.00000
n (Exponent):		1.0000
Reslope		QC Normalize
Slope:	1.0000	Slope factor: 1.0000
Y Int:	0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00036825	0.00036825	0.00000	0.0041247	0.00041781	1
IC4	50.000	50.796	0.79624	1.5925	1.5484	0.0045071	1
IC2	5.0000	4.6392	-0.36078	-7.2155	0.14515	0.00044950	1
IC3	25.000	24.565	-0.43547	-1.7419	0.75089	0.00058813	1



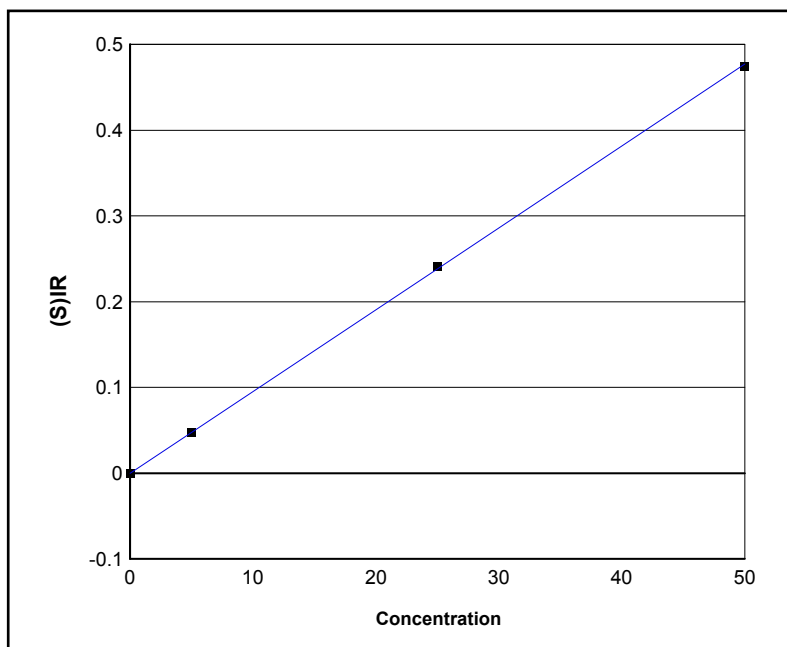
Element Name:		K
Element Wavelength:		K 766.490 nm
Concentration Units:		ppm
Date of Calibration:		10/18/2013 10:58:55AM
Date of Fit:		10/18/2013 10:58:55AM
Type of Fit:		Linear
Correlation:		0.99943
A0 (Offset):		0.014879
A1 (Gain):		3.4602
A2 (Curvature):		0.00000
n (Exponent):		1.0000
Reslope		QC Normalize
Slope:	1.0000	Slope factor: 1.0000
Y Int:	0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00019985	0.00019985	0.00000	0.015571	0.0011018	1
IC4	50.000	49.190	-0.81022	-1.6204	170.22	1.1130	1
IC2	5.0000	4.6489	-0.35109	-7.0219	16.101	0.036166	1
IC3	25.000	26.161	1.1613	4.6452	90.538	0.88559	1



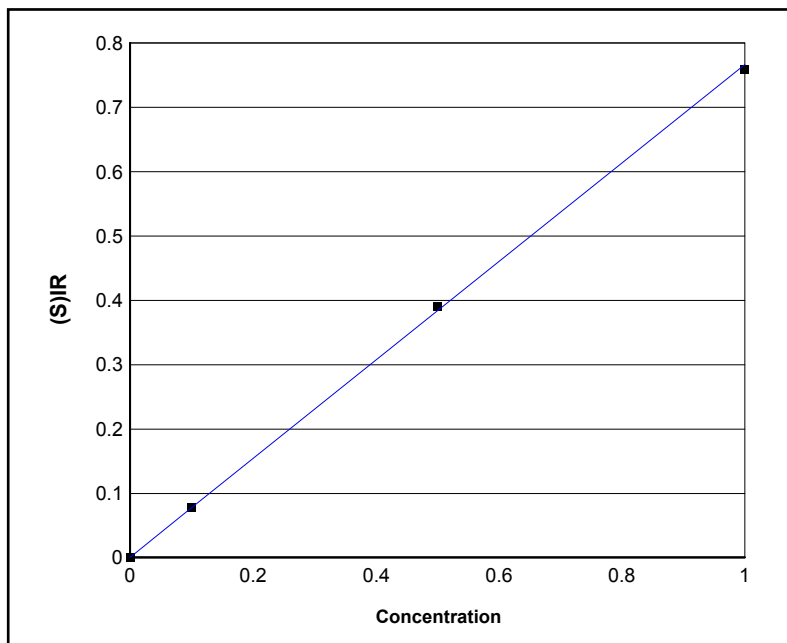
Element Name:		Li	
Element Wavelength:		Li 670.784 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99969	
A0 (Offset):		0.0058934	
A1 (Gain):		1.5386	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000078910	0.0000078910	0.00000	0.0059055	0.0014881	1
IC2	0.10000	0.092115	-0.0078846	-7.8846	0.14763	0.00077181	1
IC3	0.50000	0.49205	-0.0079488	-1.5898	0.76298	0.0031917	1
IC4	1.0000	1.0158	0.015833	1.5833	1.5689	0.0028506	1



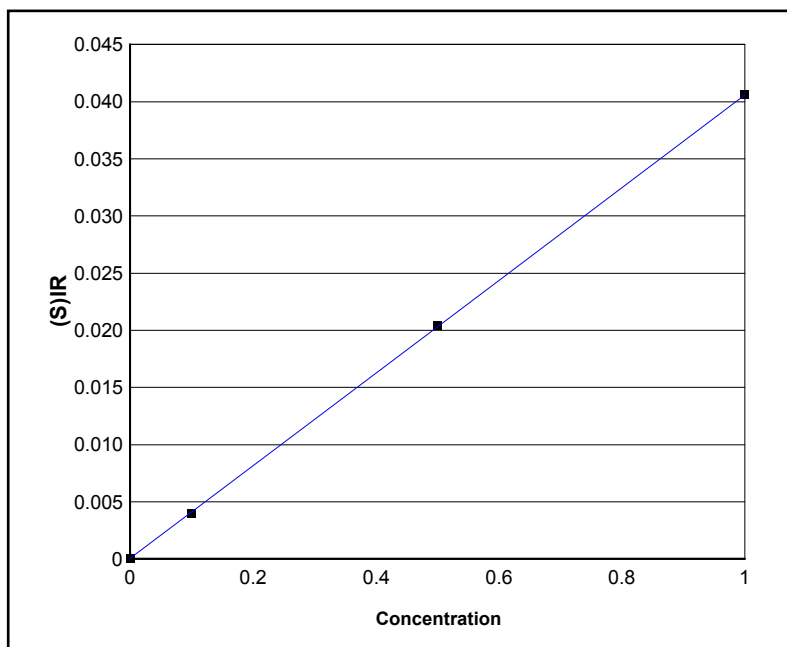
Element Name:		Mg	
Element Wavelength:		Mg 279.079 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99997	
A0 (Offset):		-0.000019580	
A1 (Gain):		0.0095419	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000050271	-0.000050271	0.00000	-0.000020059	0.0000022868	1
IC4	50.000	49.704	-0.29604	-0.59208	0.47425	0.0033660	1
IC2	5.0000	5.0258	0.025833	0.51667	0.047936	0.000072937	1
IC3	25.000	25.270	0.27021	1.0808	0.24111	0.00068825	1



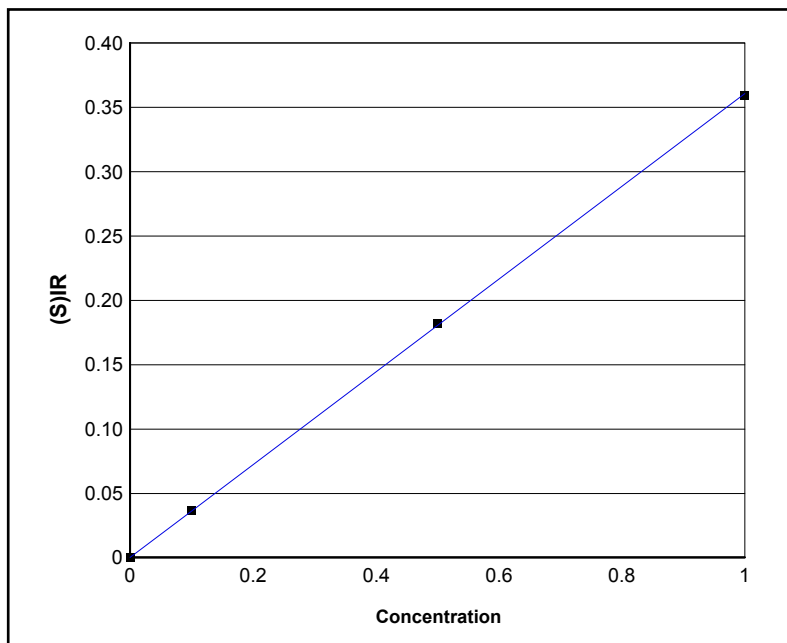
Element Name:		Mn
Element Wavelength:		Mn 257.610 nm
Concentration Units:		ppm
Date of Calibration:		10/18/2013 10:58:55AM
Date of Fit:		10/18/2013 10:58:55AM
Type of Fit:		Linear
Correlation:		0.99991
A0 (Offset):		0.00045463
A1 (Gain):		0.76654
A2 (Curvature):		0.00000
n (Exponent):		1.0000
Reslope		QC Normalize
Slope:	1.0000	Slope factor: 1.0000
Y Int:	0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000026702	-0.0000026702	0.00000	0.00045258	0.000043832	1
IC4	1.0000	0.98975	-0.010253	-1.0253	0.75914	0.0036432	1
IC2	0.10000	0.10206	0.0020561	2.0561	0.078685	0.00021979	1
IC3	0.50000	0.50820	0.0081972	1.6394	0.39001	0.00061167	1



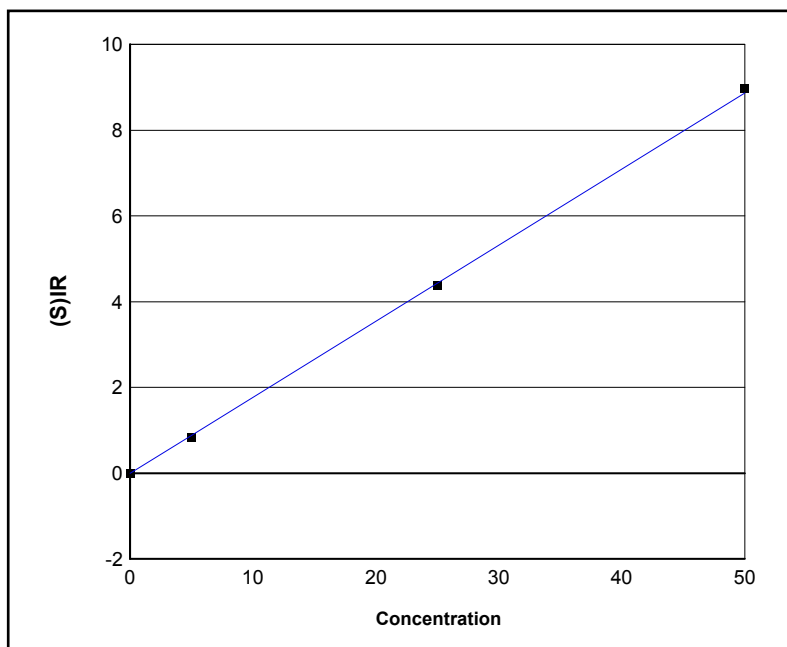
Element Name:		Mn
Element Wavelength:		Mn 257.610 nm
Concentration Units:		ppm
Date of Calibration:		10/18/2013 10:58:55AM
Date of Fit:		10/18/2013 10:58:55AM
Type of Fit:		Linear
Correlation:		0.99995
A0 (Offset):		0.000049662
A1 (Gain):		0.040534
A2 (Curvature):		0.00000
n (Exponent):		1.0000
Reslope		QC Normalize
Slope:	1.0000	Slope factor: 1.0000
Y Int:	0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000031792	0.0000031792	0.00000	0.000049791	0.0000031386	1
IC4	1.0000	1.0012	0.0012132	0.12132	0.040633	0.000098112	1
IC2	0.10000	0.096178	-0.0038223	-3.8223	0.0039481	0.000023937	1
IC3	0.50000	0.50261	0.0026091	0.52182	0.020423	0.00013730	1



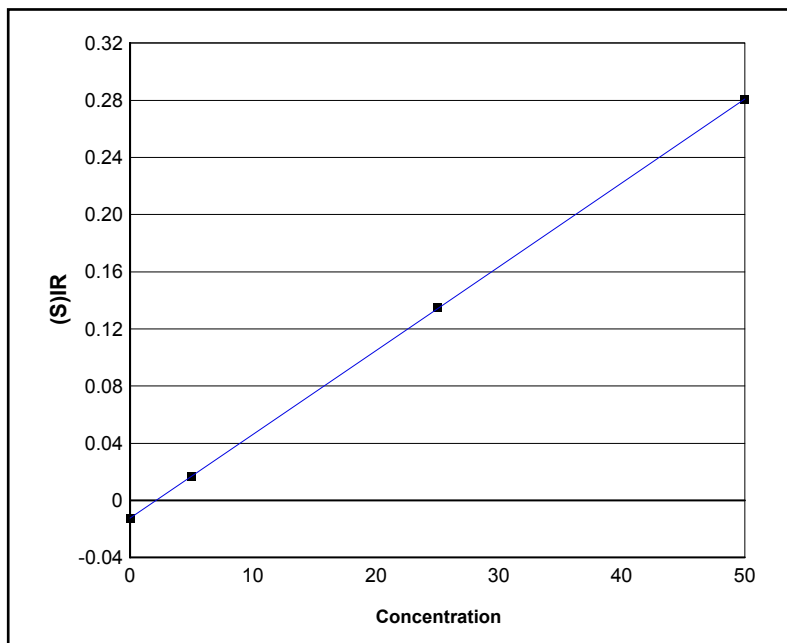
Element Name:		Mo	
Element Wavelength:		Mo 202.030 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		0.000096207	
A1 (Gain):		0.36069	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000012166	-0.0000012166	0.00000	0.000095768	0.0000025068	1
IC4	1.0000	0.99514	-0.0048591	-0.48591	0.35904	0.000026638	1
IC2	0.10000	0.10091	0.00091339	0.91339	0.036495	0.000090154	1
IC3	0.50000	0.50395	0.0039458	0.78915	0.18187	0.000046892	1



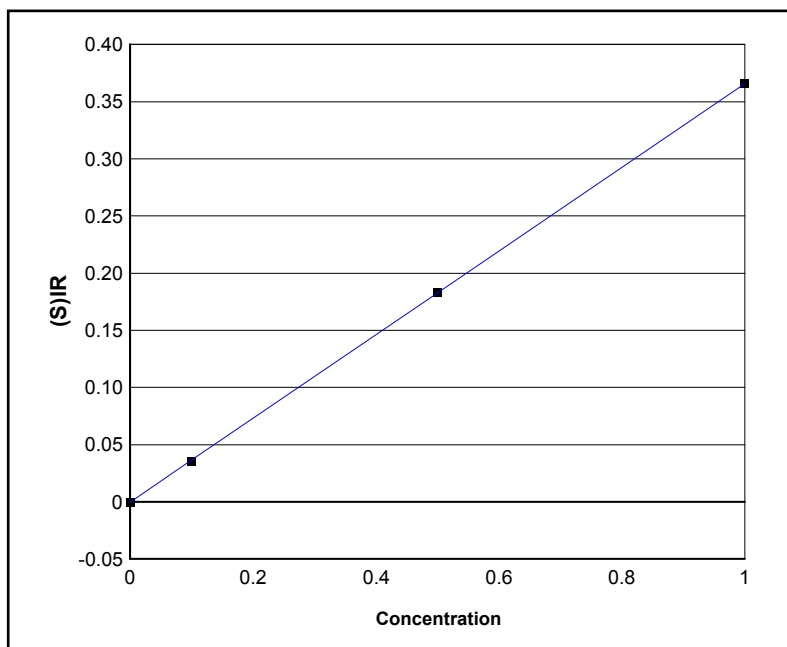
Element Name:		Na	
Element Wavelength:		Na 589.592 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99983	
A0 (Offset):		-0.0061290	
A1 (Gain):		0.17742	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00029636	0.00029636	0.00000	-0.0060764	0.0012288	1
IC4	50.000	50.577	0.57664	1.1533	8.9671	0.036101	1
IC2	5.0000	4.7016	-0.29837	-5.9674	0.82802	0.0038487	1
IC3	25.000	24.722	-0.27828	-1.1131	4.3799	0.0023087	1



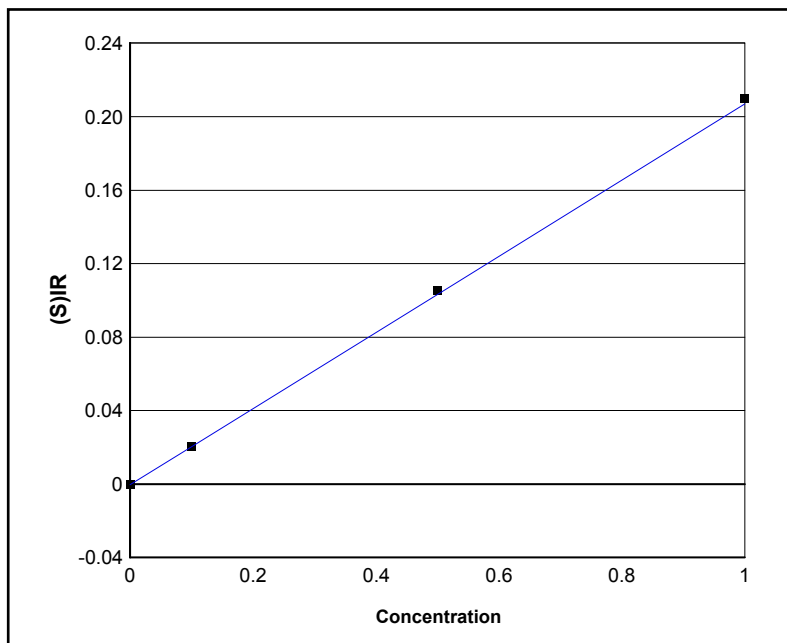
Element Name:		Na	
Element Wavelength:		Na 818.326 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99999	
A0 (Offset):		-0.012395	
A1 (Gain):		0.0058663	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000025136	0.000025136	0.00000	-0.012395	0.00011182	1
IC4	50.000	49.894	-0.10611	-0.21222	0.28030	0.0016508	1
IC2	5.0000	4.9553	-0.044684	-0.89367	0.016674	0.0021083	1
IC3	25.000	25.151	0.15079	0.60317	0.13515	0.00092702	1



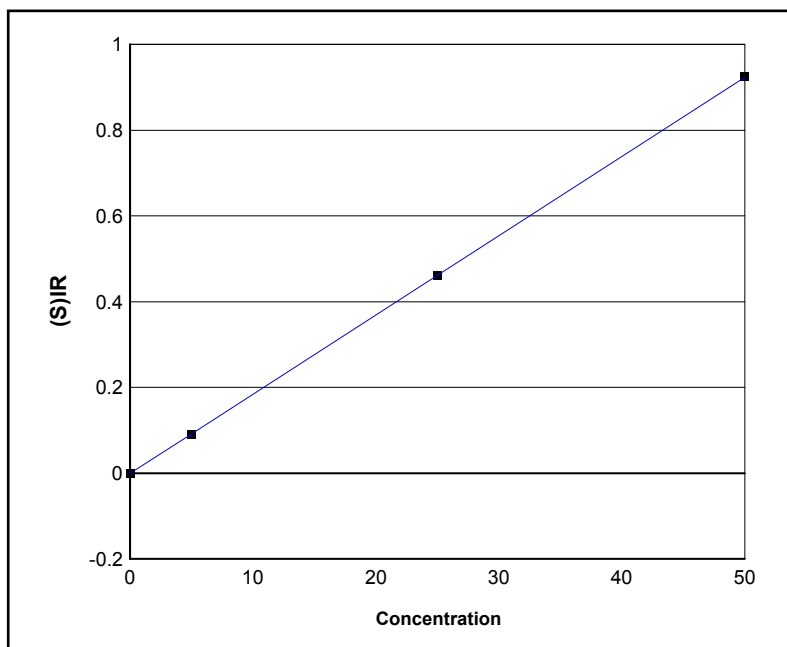
Element Name:		Ni	
Element Wavelength:		Ni 231.604 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		-0.00021816	
A1 (Gain):		0.36599	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000016092	0.0000016092	0.00000	-0.00021757	0.000037480	1
IC4	1.0000	0.99993	-0.000066043	-0.0066043	0.36575	0.00031972	1
IC2	0.10000	0.097980	-0.0020198	-2.0198	0.035642	0.000076975	1
IC3	0.50000	0.50209	0.0020858	0.41716	0.18354	0.00078762	1



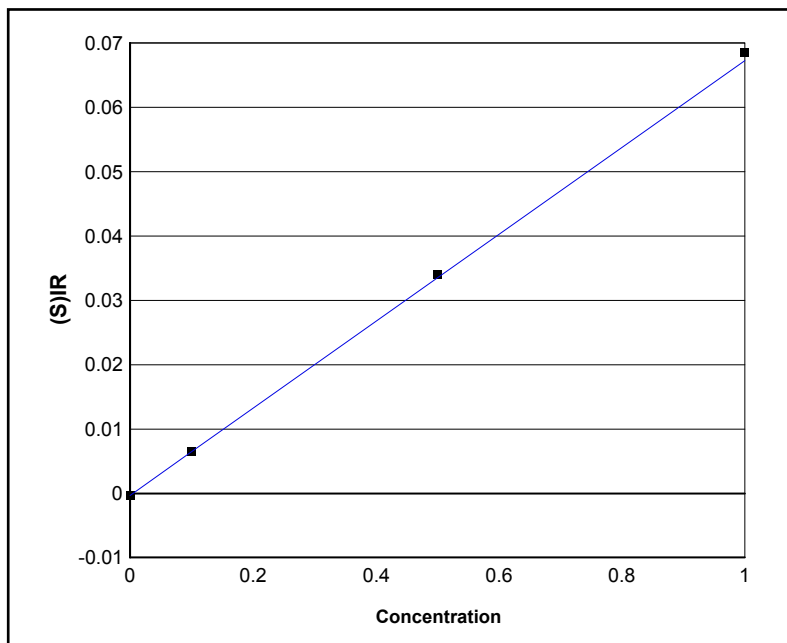
Element Name:		Pb	
Element Wavelength:		Pb 220.353 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		-0.00038133	
A1 (Gain):		0.20731	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000016532	0.0000016532	0.00000	-0.00038099	0.00011495	1
IC4	1.0000	0.99864	-0.0013551	-0.13551	0.20976	0.000066137	1
IC2	0.10000	0.097764	-0.0022358	-2.2358	0.020198	0.00026662	1
IC3	0.50000	0.50359	0.0035910	0.71819	0.10558	0.000033024	1



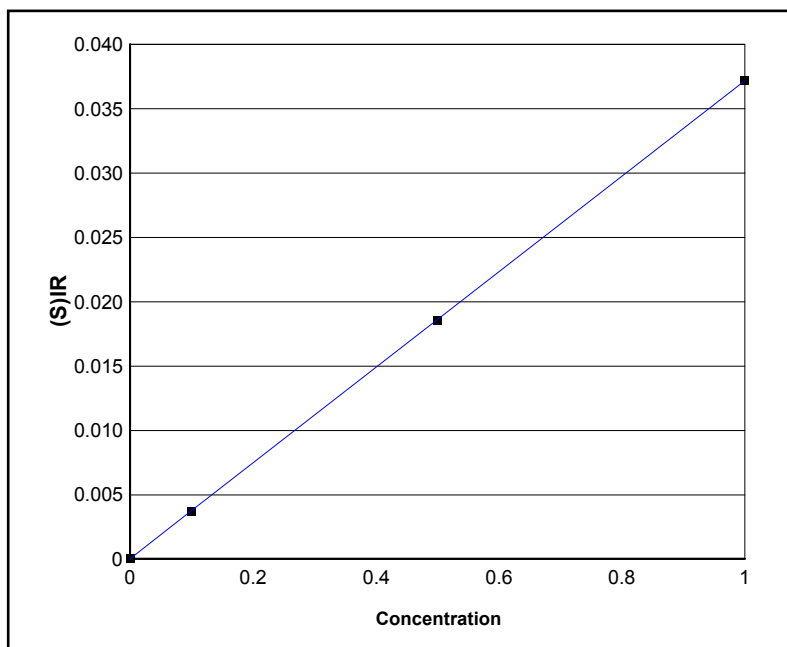
Element Name:		S	
Element Wavelength:		S 182.034 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		1.0000	
A0 (Offset):		-0.0003213	
A1 (Gain):		0.01847	
A2 (Curvature):		0.0000	
n (Exponent):		1.000	
Reslope		QC Normalize	
Slope:	1.000	Slope factor:	1.000
Y Int:	0.0000	Offset:	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.0000	0.00009572	0.00009572	0.0000	-0.0003196	0.00003542	1
IC2	5.000	4.894	-0.1062	-2.124	0.09007	0.0003878	1
IC3	25.00	25.00	-0.001244	-0.004977	0.4614	0.0008510	1
IC4	50.00	50.11	0.1075	0.2149	0.9252	0.002351	1



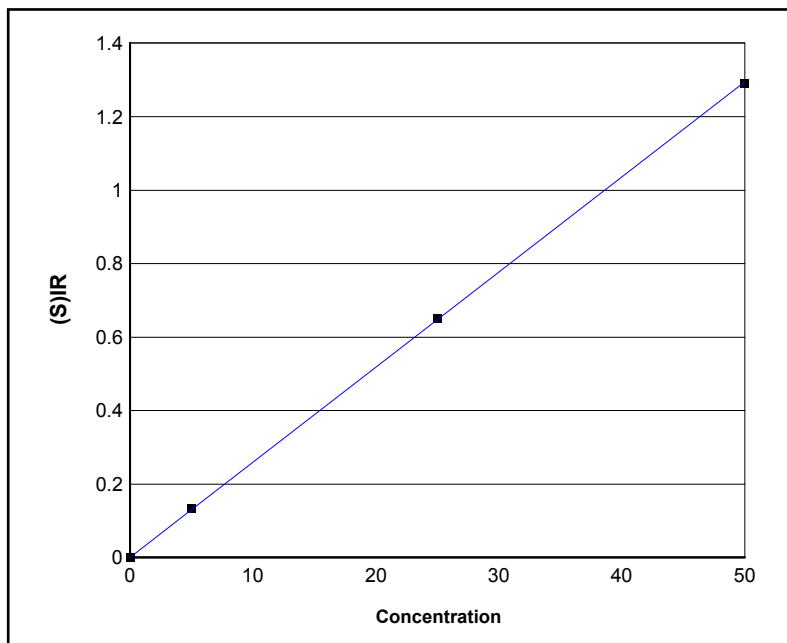
Element Name:		Sb	
Element Wavelength:		Sb 206.833 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		1.00000	
A0 (Offset):		-0.00032958	
A1 (Gain):		0.067614	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)/IR	Stddev	Emphasis
IC1	0.00000	0.0000002521	-0.0000002521	0.00000	-0.00032959	0.00011118	1
IC4	1.0000	1.0001	0.00013176	0.013176	0.068501	0.00031888	1
IC2	0.10000	0.10033	0.00033163	0.33163	0.0065751	0.00015091	1
IC3	0.50000	0.49954	-0.00046339	-0.092679	0.034050	0.00018709	1



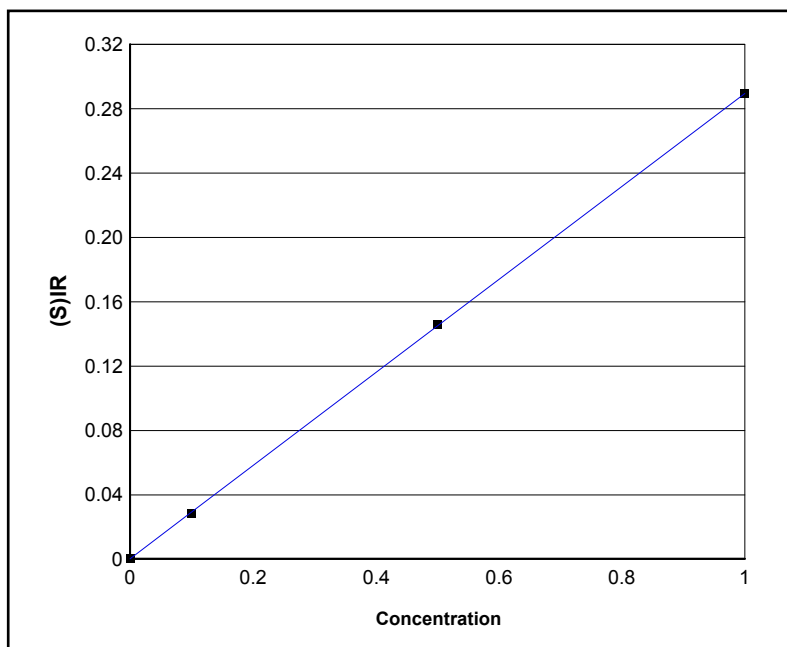
Element Name:		Se	
Element Wavelength:		Se 196.090 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		1.00000	
A0 (Offset):		0.000025980	
A1 (Gain):		0.037166	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)/IR	Stddev	Emphasis
IC1	0.00000	0.0000009261	0.0000009261	0.00000	0.000026014	0.000079834	1
IC4	1.0000	1.0019	0.0019089	0.19089	0.037235	0.00026065	1
IC2	0.10000	0.099081	-0.00091902	-0.91902	0.0037057	0.00016563	1
IC3	0.50000	0.49901	-0.00098986	-0.19797	0.018558	0.00011977	1



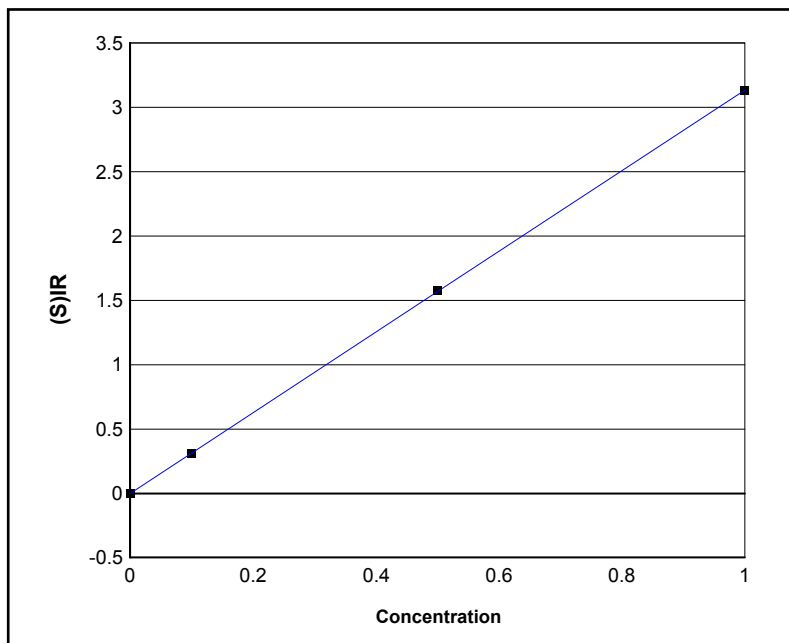
Element Name:		Si	
Element Wavelength:		Si 288.158 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		0.0011174	
A1 (Gain):		0.025884	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000094051	-0.000094051	0.00000	0.0011150	0.00014281	1
IC2	5.0000	5.0883	0.088298	1.7660	0.13283	0.0012217	1
IC3	25.000	25.146	0.14583	0.58330	0.65200	0.0014445	1
IC4	50.000	49.766	-0.23412	-0.46825	1.2893	0.0060841	1



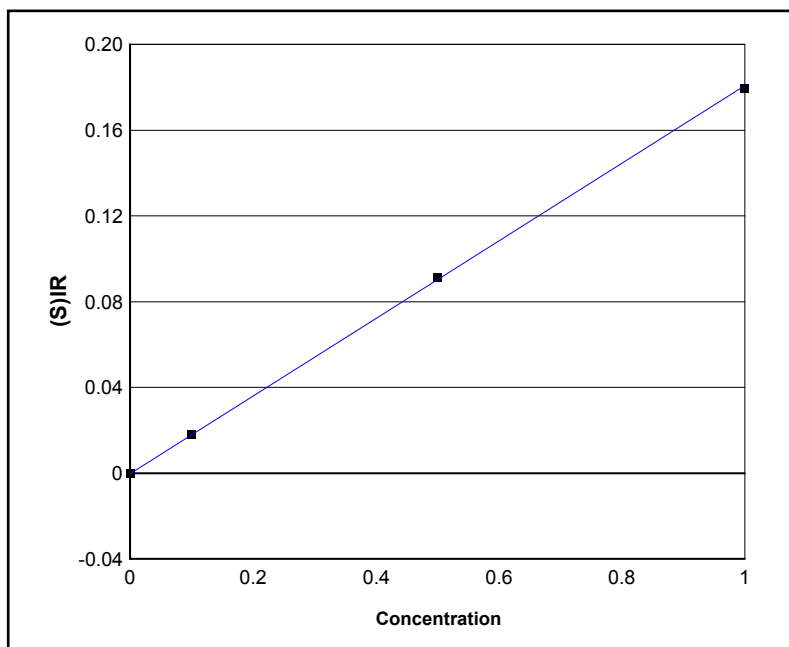
Element Name:		Sn	
Element Wavelength:		Sn 189.989 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99997	
A0 (Offset):		0.000095878	
A1 (Gain):		0.28954	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000024947	0.0000024947	0.00000	0.000096600	0.00010501	1
IC4	1.0000	1.0006	0.00063410	0.063410	0.28982	0.000098987	1
IC2	0.10000	0.096961	-0.0030391	-3.0391	0.028170	0.00017081	1
IC3	0.50000	0.50241	0.0024050	0.48100	0.14556	0.00015735	1



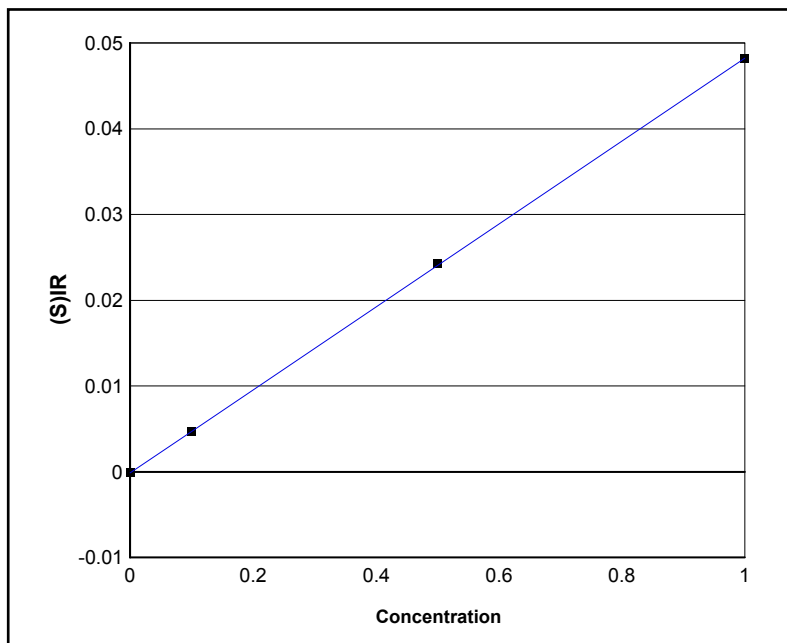
Element Name:		Sr	
Element Wavelength:		Sr 407.771 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99999	
A0 (Offset):		-0.0016987	
A1 (Gain):		3.1382	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000003575	0.0000003575	0.00000	-0.0016975	0.000032692	1
IC2	0.10000	0.099292	-0.00070790	-0.70790	0.30990	0.00065860	1
IC3	0.50000	0.50280	0.0027961	0.55923	1.5762	0.000075871	1
IC4	1.0000	0.99791	-0.0020882	-0.20882	3.1300	0.013315	1



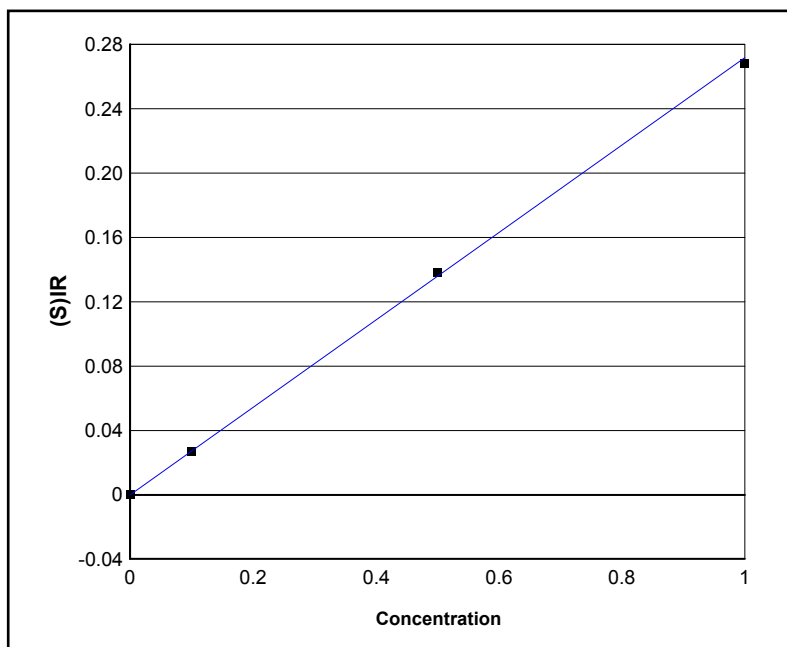
Element Name:		Ti	
Element Wavelength:		Ti 334.904 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99996	
A0 (Offset):		-0.00014604	
A1 (Gain):		0.18096	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000006690	-0.0000006690	0.00000	-0.00014616	0.0000057272	1
IC4	1.0000	0.99327	-0.0067332	-0.67332	0.17963	0.00046344	1
IC2	0.10000	0.099995	-0.0000054306	-0.0054306	0.017952	0.0000054293	1
IC3	0.50000	0.50674	0.0067386	1.3477	0.091569	0.00031708	1



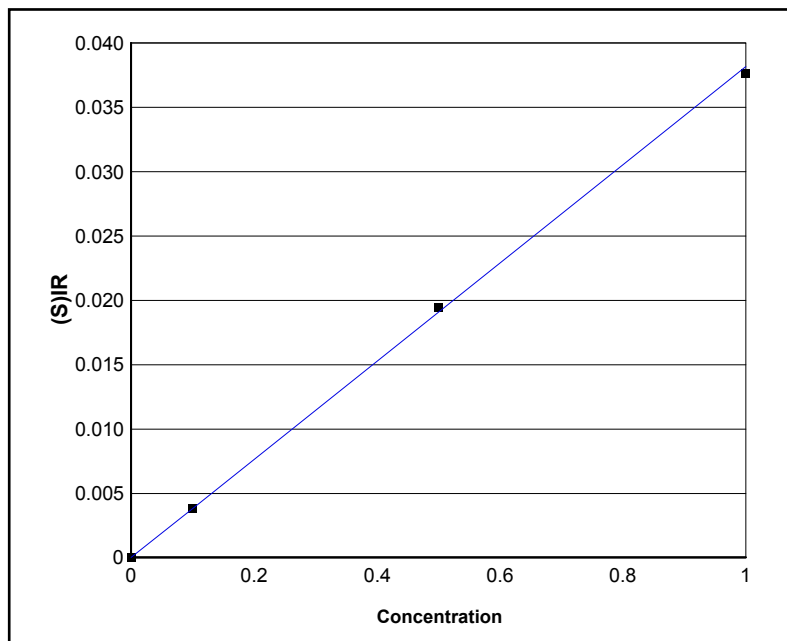
Element Name:		TI	
Element Wavelength:		TI 190.856 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99999	
A0 (Offset):		-0.00011967	
A1 (Gain):		0.048351	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000004233	-0.0000004233	0.00000	-0.00011969	0.000098083	1
IC4	1.0000	0.99600	-0.0039969	-0.39969	0.048215	0.000068215	1
IC2	0.10000	0.10003	0.000029463	0.029463	0.0047345	0.000065736	1
IC3	0.50000	0.50397	0.0039674	0.79349	0.024336	0.00025109	1



Element Name:		V	
Element Wavelength:		V 292.402 nm	
Concentration Units:		ppm	
Date of Calibration:		10/18/2013 10:58:55AM	
Date of Fit:		10/18/2013 10:58:55AM	
Type of Fit:		Linear	
Correlation:		0.99990	
A0 (Offset):		-0.000030357	
A1 (Gain):		0.27192	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000006870	-0.0000006870	0.00000	-0.000030544	0.000041775	1
IC4	1.0000	0.99015	-0.0098541	-0.98541	0.26838	0.0016313	1
IC2	0.10000	0.099627	-0.00037303	-0.37303	0.026977	0.00011414	1
IC3	0.50000	0.51023	0.010227	2.0454	0.13830	0.00029908	1



Element Name:	Zn		
Element Wavelength:	Zn 206.200 nm		
Concentration Units:	ppm		
Date of Calibration:	10/18/2013 10:58:55AM		
Date of Fit:	10/18/2013 10:58:55AM		
Type of Fit:	Linear		
Correlation:	0.99987		
A0 (Offset):	0.0000010014		
A1 (Gain):	0.038162		
A2 (Curvature):	0.00000		
n (Exponent):	1.0000		
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000020545	-0.0000020545	0.00000	0.0000009230	0.0000034512	1
IC4	1.0000	0.98792	-0.012076	-1.2076	0.037632	0.00062840	1
IC2	0.10000	0.10106	0.0010586	1.0586	0.0038506	0.000037310	1
IC3	0.50000	0.51102	0.011018	2.2035	0.019467	0.000075458	1

Sample Name: IC1 Acquired: 10/18/2013 10:49:35 Type: Cal
Method: ICAP1(v459) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	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
Avg	-0.00007	.00027	-0.00007	.00069	.00037	.00094	.00062	.00507	.00103	-0.00023	-0.00001	.00202
Stddev	.00006	.00021	.00005	.00010	.00069	.00007	.00024	.00003	.00005	.00014	.00002	.00005
%RSD	81.519	77.643	77.089	14.603	189.91	7.3403	39.076	.50279	4.3789	60.633	146.31	2.2723
#1	-0.00011	.00012	-0.00003	.00062	.00086	.00089	.00045	.00509	.00107	-0.00013	-0.00002	.00199
#2	-0.00003	.00042	-0.00010	.00076	-0.00013	.00099	.00079	.00505	.00100	-0.00033	.00000	.00206
Elem	Fe2599	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316
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	.00073	-0.00008	.00412	.01557	.00591	-0.00002	.00045	.00005	.00010	-0.00608	-0.01240	-0.00022
Stddev	.00019	.00011	.00042	.00110	.00149	.00000	.00004	.00000	.00000	.00123	.00011	.00004
%RSD	25.568	131.73	10.129	7.0762	25.199	11.400	9.6848	6.3035	2.6176	20.222	.90216	17.226
#1	.00060	-0.00016	.00442	.01635	.00485	-0.00002	.00042	.00005	.00009	-0.00695	-0.01232	-0.00024
#2	.00086	-0.00001	.00383	.01479	.00696	-0.00002	.00048	.00005	.00010	-0.00521	-0.01247	-0.00019
Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	-0.00038	-0.0003	-0.00033	.00003	.00111	.00010	-0.00170	-0.00015	-0.00012	-0.00003	.00000	
Stddev	.00011	.0000	.00011	.00008	.00014	.00011	.00003	.00001	.00010	.00004	.00000	
%RSD	30.173	11.08	33.731	306.88	12.809	108.70	1.9258	3.9185	81.945	136.77	373.91	
#1	-0.00030	-0.0003	-0.00041	-0.00003	.00101	.00002	-0.00167	-0.00015	-0.00005	-0.00006	.00000	
#2	-0.00046	-0.0003	-0.00025	.00008	.00122	.00017	-0.00172	-0.00014	-0.00019	-0.00000	-0.00000	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774								
Units	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	4796.4	7440.1	99577.	8578.4								
Stddev	4.3	9.3	148.	34.1								
%RSD	.09003	.12525	.14898	.39709								
#1	4799.5	7446.7	99681.	8554.4								
#2	4793.4	7433.5	99472.	8602.5								

Sample Name: IC2 Acquired: 10/18/2013 10:52:00 Type: Cal
Method: ICAP1(v459) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	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
Avg	.01212	.11142	.00477	.02910	.35680	.62838	.50502	.69147	.16213	.17160	.00918	.02849
Stddev	.00001	.00035	.00011	.00013	.00113	.00062	.00039	.00455	.00009	.00002	.00004	.00003
%RSD	.08535	.31515	2.3694	.45713	.31781	.09945	.07665	.65776	.05315	.00969	.39110	.11575
#1	.01211	.11167	.00469	.02901	.35760	.62883	.50475	.69468	.16219	.17161	.00916	.02847
#2	.01212	.11117	.00485	.02920	.35599	.62794	.50530	.68825	.16207	.17159	.00921	.02851
Elem	Fe2599	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316
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	.30737	.02440	.14515	16.101	.14763	.04794	.07868	.00395	.03649	.82802	.01667	.03564
Stddev	.00052	.00024	.00045	.036	.00077	.00007	.00022	.00002	.00009	.00385	.00211	.00008
%RSD	.16764	.99405	.30968	.22462	.52282	.15215	.27932	.60628	.24703	.46480	12.644	.21597
#1	.30773	.02423	.14483	16.127	.14817	.04788	.07884	.00393	.03656	.83074	.01518	.03570
#2	.30700	.02457	.14547	16.075	.14708	.04799	.07853	.00397	.03643	.82530	.01817	.03559
Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	.02020	.0901	.00658	.00371	.13283	.02817	.30990	.01795	.00473	.02698	.00385	
Stddev	.00027	.0004	.00015	.00017	.00122	.00017	.00066	.00001	.00007	.00011	.00004	
%RSD	1.3201	.4305	2.2952	4.4697	.91975	.60636	.21252	.03024	1.3884	.42310	.96894	
#1	.02001	.0898	.00647	.00382	.13369	.02805	.30944	.01796	.00469	.02690	.00382	
#2	.02039	.0903	.00668	.00359	.13196	.02829	.31037	.01795	.00478	.02706	.00388	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774								
Units	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	4699.0	7410.0	98213.	8633.9								
Stddev	5.1	4.5	121.	39.4								
%RSD	.10825	.06136	.12365	.45625								
#1	4695.4	7413.3	98299.	8606.1								
#2	4702.6	7406.8	98127.	8661.8								

Sample Name: IC3 Acquired: 10/18/2013 10:54:17 Type: Cal
Method: ICAP1(v459) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	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
Avg	.06243	.55839	.02422	.14418	1.8002	3.0985	2.5287	3.4396	.81560	.88607	.04688	.13780
Stddev	.00010	.00348	.00001	.00003	.0033	.0018	.0013	.0021	.00152	.00288	.00014	.00005
%RSD	.15693	.62335	.04654	.02114	.18400	.05939	.04950	.06182	.18580	.32503	.29867	.03902
#1	.06250	.56085	.02423	.14420	1.8025	3.0972	2.5295	3.4381	.81668	.88811	.04678	.13776
#2	.06236	.55593	.02421	.14416	1.7978	3.0998	2.5278	3.4411	.81453	.88404	.04698	.13784
Elem	Fe2599	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316
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	1.5320	.12215	.75089	90.538	.76298	.24111	.39001	.02042	.18187	4.3799	.13515	.18354
Stddev	.0008	.00003	.00059	.886	.00319	.00069	.00061	.00014	.00005	.0023	.00093	.00079
%RSD	.05494	.02248	.07832	.97814	.41832	.28546	.15683	.67228	.02578	.05271	.68593	.42912
#1	1.5326	.12213	.75048	89.912	.76524	.24062	.38958	.02052	.18183	4.3816	.13449	.18410
#2	1.5314	.12217	.75131	91.164	.76072	.24159	.39044	.02033	.18190	4.3783	.13580	.18299
Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	.10558	.4614	.03405	.01856	.65200	.14556	1.5762	.09157	.02434	.13830	.01947	
Stddev	.00003	.0009	.00019	.00012	.00144	.00016	.0001	.00032	.00025	.00030	.00008	
%RSD	.03128	.1844	.54944	.64534	.22155	.10810	.00481	.34628	1.0318	.21626	.38761	
#1	.10555	.4620	.03392	.01847	.65303	.14568	1.5762	.09134	.02451	.13808	.01941	
#2	.10560	.4608	.03418	.01864	.65098	.14545	1.5761	.09179	.02416	.13851	.01952	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774								
Units	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	4421.9	7264.7	94941.	8656.4								
Stddev	14.1	14.2	175.	16.3								
%RSD	.31903	.19550	.18436	.18790								
#1	4411.9	7254.6	95065.	8667.9								
#2	4431.9	7274.7	94818.	8644.9								

Sample Name: IC4 Acquired: 10/18/2013 10:56:38 Type: Cal
Method: ICAP1(v459) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	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
Avg	.12426	1.1161	.04843	.28598	3.5909	6.0194	4.9412	6.7774	1.6169	1.7622	.09075	.26849
Stddev	.00017	.0077	.00007	.00011	.0071	.0127	.0147	.0347	.0005	.0009	.00057	.00019
%RSD	.13857	.68922	.14145	.03750	.19647	.21013	.29750	.51168	.03025	.05107	.62635	.07233
#1	.12438	1.1106	.04848	.28590	3.5859	6.0283	4.9516	6.7529	1.6172	1.7616	.09115	.26863
#2	.12414	1.1215	.04838	.28606	3.5959	6.0104	4.9308	6.8019	1.6166	1.7628	.09035	.26835
Elem	Fe2599	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316
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	3.0058	.24013	1.5484	170.22	1.5689	.47425	.75914	.04063	.35904	8.9671	.28030	.36575
Stddev	.0024	.00087	.0045	1.11	.0029	.00337	.00364	.00010	.00003	.0361	.00165	.00032
%RSD	.08094	.36265	.29109	.65384	.18170	.70976	.47991	.24146	.00742	.40259	.58893	.08741
#1	3.0075	.23951	1.5452	171.01	1.5669	.47663	.76171	.04070	.35902	8.9415	.28147	.36552
#2	3.0041	.24075	1.5515	169.43	1.5709	.47187	.75656	.04056	.35905	8.9926	.27913	.36598
Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	.20976	.9252	.06850	.03724	1.2893	.28982	3.1300	.17963	.04821	.26838	.03763	
Stddev	.00007	.0024	.00032	.00026	.0061	.00010	.0133	.00046	.00007	.00163	.00063	
%RSD	.03153	.2541	.46551	.70001	.47190	.03415	.42542	.25800	.14148	.60783	1.6699	
#1	.20972	.9236	.06873	.03705	1.2850	.28975	3.1394	.17995	.04817	.26954	.03808	
#2	.20981	.9269	.06828	.03742	1.2936	.28989	3.1206	.17930	.04826	.26723	.03719	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774								
Units	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	4233.4	7129.7	93598.	8647.5								
Stddev	.6	.6	524.	12.4								
%RSD	.01459	.00812	.55989	.14322								
#1	4233.8	7130.1	93227.	8656.3								
#2	4232.9	7129.2	93968.	8638.8								

Sample Name: ICV-1678117 Acquired: 10/18/2013 10:58:58 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.37244	18.783	.38041	.36822	.37790	.37434	18.670	.37263	.36702	.37596	.37136	18.297
Stddev	.00179	.016	.00019	.00045	.00084	.00033	.041	.00075	.00020	.00275	.00216	.036
%RSD	.47953	.08631	.04932	.12306	.22276	.08861	.22201	.20010	.05552	.73226	.58054	.19567

#1	.37118	18.772	.38028	.36790	.37731	.37411	18.641	.37210	.36717	.37401	.36984	18.271
#2	.37370	18.795	.38055	.36854	.37850	.37458	18.699	.37316	.36688	.37791	.37289	18.322

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.098	19.060	.35932	18.190	.37872	.37225	.37223	18.143	.37000	.37123	18.75	.37815
Stddev	.100	.184	.00246	.019	.00074	.00232	.00071	.062	.00014	.00141	.01	.00384
%RSD	.55396	.96314	.68434	.10698	.19635	.62321	.19025	.33977	.03723	.38110	.0278	1.0154

#1	18.027	18.930	.35758	18.177	.37819	.37061	.37273	18.100	.36990	.37023	18.75	.38087
#2	18.168	19.190	.36106	18.204	.37925	.37389	.37173	18.187	.37010	.37223	18.75	.37544

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.37459	18.840	.37117	.37013	.37444	.37646	.37029	.37531
Stddev	.00126	.121	.00034	.00043	.00003	.00121	.00113	.00252
%RSD	.33665	.64120	.09199	.11614	.00735	.32098	.30576	.67062

#1	.37370	18.755	.37142	.37043	.37446	.37561	.36949	.37353
#2	.37548	18.925	.37093	.36982	.37442	.37732	.37109	.37709

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4539.4	7363.3	97272.	8792.6
Stddev	4.6	15.0	229.	1.9
%RSD	.10070	.20363	.23576	.02206
#1	4542.6	7374.0	97434.	8793.9
#2	4536.2	7352.7	97110.	8791.2

Sample Name: ICB-1673361 Acquired: 10/18/2013 11:01:20 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00027	.02689	.00161	.00111	.00001	.00006	.00873	-.00005	-.00005	-.00001	.00035	-.00419
Stddev	.00000	.01911	.00029	.00011	.00000	.00001	.00321	.00010	.00012	.00030	.00023	.00355
%RSD	1.5171	71.078	17.987	10.121	37.365	19.343	36.706	194.90	231.98	3066.9	65.044	84.733

#1	.00028	.04041	.00181	.00119	.00001	.00007	.01100	.00002	.00003	-.00022	.00019	-.00670
#2	.00027	.01338	.00140	.00103	.00001	.00005	.00647	-.00013	-.00014	.00020	.00051	-.00168

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.03490	.00161	-.00052	.00406	-.00004	.00025	.00038	-.00412	-.00021	-.00040	.0035	-.00059
Stddev	.04182	.00007	.00047	.00368	.00001	.00021	.00009	.00510	.00019	.00038	.0043	.00058
%RSD	119.84	4.1087	90.210	90.607	27.455	86.209	23.145	123.67	87.875	96.315	123.9	98.189

#1	-.00533	.00157	-.00019	.00667	-.00005	.00040	.00045	-.00052	-.00035	-.00067	.0004	-.00099
#2	-.06446	.00166	-.00086	.00146	-.00003	.00010	.00032	-.00772	-.00008	-.00013	.0065	-.00018

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												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00180	.02222	-.00032	.00007	.00001	.00035	.00006	.00070
Stddev	.00517	.00172	.00001	.00000	.00006	.00000	.00003	.00014
%RSD	287.05	7.7415	1.6158	2.5935	454.09	.07433	47.280	19.705

#1	.00546	.02101	-.00033	.00007	-.00003	.00035	.00004	.00060
#2	-.00186	.02344	-.00032	.00007	.00006	.00035	.00008	.00080

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4805.1	7441.8	98672.	8569.6
Stddev	5.3	10.2	77.	42.6
%RSD	.11074	.13732	.07759	.49698
#1	4808.9	7449.0	98618.	8599.7
#2	4801.4	7434.5	98727.	8539.5

Sample Name: ICVL-1680809 Acquired: 10/18/2013 11:03:44 Type: QC

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00246	.24078	.01257	.02122	.00212	.00212	.52386	.00092	.00397	.00403	.01052	.04049
Stddev	.00038	.01218	.00121	.00027	.00000	.00001	.00281	.00011	.00015	.00008	.00010	.00045
%RSD	15.541	5.0606	9.6300	1.2545	.03661	.66157	.53633	12.267	3.7923	2.0247	.97501	1.1050

#1	.00219	.23216	.01342	.02103	.00212	.00211	.52187	.00099	.00408	.00408	.01045	.04080
#2	.00273	.24940	.01171	.02141	.00212	.00213	.52585	.00084	.00386	.00397	.01060	.04017

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48514	.41992	F .00264	.20575	.00331	.00297	.01043	.92196	.00978	.00434	F -.0007	.01941
Stddev	.03492	.00213	.00088	.00318	.00001	.00029	.00015	.00442	.00023	.00051	.0012	.00239
%RSD	7.1985	.50746	33.417	1.5463	.29896	9.6826	1.3996	.47927	2.3995	11.796	169.1	12.297

#1	.46044	.41841	.00327	.20350	.00330	.00277	.01032	.92509	.00995	.00397	-.0016	.02109
#2	.50983	.42142	.00202	.20800	.00332	.00317	.01053	.91884	.00962	.00470	.0001	.01772

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01338	.53077	.00958	.00493	.00468	.02076	.00515	.01086
Stddev	.00008	.01681	.00017	.00007	.00005	.00240	.00015	.00003
%RSD	.59782	3.1672	1.7975	1.3638	.96562	11.575	2.9859	.31334

#1	.01333	.51888	.00946	.00498	.00471	.02246	.00504	.01084
#2	.01344	.54265	.00971	.00488	.00465	.01906	.00526	.01089

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4781.1	7431.2	98474.	8627.7
Stddev	11.5	.4	94.	2.8
%RSD	.24104	.00594	.09577	.03285
#1	4789.2	7430.9	98541.	8629.7
#2	4772.9	7431.6	98408.	8625.7

Sample Name: ICSA-1674798 Acquired: 10/18/2013 11:06:08 Type: QC

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00031	521.14	-0.00136	.00326	.00177	-0.00001	477.66	.00057	-0.00075	.00083	.00289	194.21
Stddev	.00087	1.37	.00189	.00013	.00001	.00001	1.15	.00013	.00027	.00015	.00011	.33
%RSD	279.95	.26320	138.84	3.9126	.28751	43.437	.24056	22.160	35.538	17.606	3.8408	.16772

#1	-0.00093	522.11	-0.00269	.00317	.00177	-0.00001	476.85	.00066	-0.00056	.00093	.00282	194.44
#2	.00031	520.17	-0.00002	.00335	.00178	-0.00002	478.48	.00048	-0.00094	.00072	.00297	193.98

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00141	.00623	.00173	494.97	.00119	.00193	-0.00086	.06763	.00031	.00532	-.1007	-.02377
Stddev	.05045	.00013	.00148	.99	.00005	.00017	.00009	.00578	.00044	.00180	.0018	.00007
%RSD	3590.8	2.1142	85.381	.20031	3.8736	8.7742	10.719	8.5471	142.81	33.883	1.754	.30086

#1	.03427	.00613	.00278	495.68	.00116	.00205	-0.00093	.06355	-0.00000	.00659	-.0995	-.02382
#2	-.03708	.00632	.00069	494.27	.00122	.00181	-0.00080	.07172	.00062	.00404	-.1020	-.02372

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00490	.06351	.00091	.00479	.00356	.00147	-0.00093	.00439
Stddev	.00227	.01274	.00031	.00024	.00015	.00849	.00017	.00025
%RSD	46.393	20.054	34.382	5.0680	4.2687	577.08	18.862	5.5889

#1	.00651	.05450	.00069	.00496	.00367	-.00453	-.00105	.00422
#2	.00329	.07252	.00113	.00462	.00346	.00748	-.00080	.00457

Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3617.1	6583.4	84777.	8088.6
Stddev	3.0	4.0	155.	9.1
%RSD	.08299	.06116	.18235	.11229
#1	3615.0	6586.2	84668.	8082.2
#2	3619.2	6580.5	84887.	8095.0

Sample Name: ICSAB-1674815 Acquired: 10/18/2013 11:08:43 Type: QC

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21872	507.07	.09191	.00855	.50616	.50129	477.54	1.0082	.49056	.46755	.51812	94.449
Stddev	.00006	.36	.00360	.00078	.00032	.00012	.23	.0005	.00050	.00112	.00465	.416
%RSD	.02918	.07056	3.9116	9.1083	.06387	.02341	.04832	.05279	.10153	.23879	.89674	.44061

#1	.21876	507.33	.08937	.00800	.50594	.50121	477.70	1.0079	.49021	.46834	.52141	94.743
#2	.21867	506.82	.09445	.00910	.50639	.50137	477.37	1.0086	.49091	.46677	.51484	94.154

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03475	.01966	.54714	501.10	.46039	.49175	.00001	.05975	.94877	.04748	F .3699	.57436
Stddev	.01327	.00024	.00040	.37	.00004	.00085	.00039	.00495	.00052	.00028	.0025	.00369
%RSD	38.191	1.2325	.07228	.07363	.00919	.17289	6069.8	8.2857	.05443	.59109	.6787	.64251

#1	.04413	.01983	.54686	500.83	.46036	.49235	.00028	.06325	.94914	.04768	.3681	.57175
#2	.02537	.01949	.54742	501.36	.46042	.49115	-.00027	.05625	.94841	.04729	.3717	.57697

Check ?	None	None	None	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value											.2000	
Range											20.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04796	1.1174	.00027	.50390	.00292	.09439	.47467	.93252
Stddev	.00167	.0174	.00201	.00067	.00006	.00001	.00007	.00381
%RSD	3.4730	1.5551	741.72	.13297	2.1750	.00873	.01456	.40820

#1	.04678	1.1297	.00169	.50342	.00297	.09440	.47472	.92983
#2	.04914	1.1051	-.00115	.50437	.00288	.09439	.47462	.93521

Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3611.7	6603.9	85549.	8059.3
Stddev	2.1	4.0	23.	7.5
%RSD	.05821	.06054	.02660	.09274
#1	3613.2	6606.7	85533.	8054.0
#2	3610.3	6601.1	85566.	8064.6

Sample Name: CCV-1673279 Acquired: 10/18/2013 11:11:14 Type: QC

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49243	24.723	.49957	.48442	.49109	.49336	24.555	.49622	.48724	.48779	.48548	24.169
Stddev	.00156	.049	.00263	.00023	.00131	.00096	.077	.00077	.00058	.00050	.00112	.020
%RSD	.31634	.19897	.52684	.04738	.26675	.19515	.31405	.15433	.11834	.10199	.23012	.08440

#1	.49353	24.758	.50143	.48426	.49017	.49268	24.500	.49676	.48764	.48744	.48627	24.154
#2	.49133	24.688	.49771	.48458	.49202	.49404	24.609	.49568	.48683	.48814	.48469	24.183

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.239	26.056	.47947	24.035	.49751	.48475	.49150	24.183	.49011	.49275	25.10	.50695
Stddev	.010	.152	.00119	.031	.00065	.00082	.00029	.031	.00156	.00110	.03	.00061
%RSD	.04243	.58161	.24779	.12724	.13105	.16970	.05973	.12760	.31927	.22330	.0995	.12031

#1	24.231	26.163	.48031	24.013	.49705	.48416	.49129	24.162	.49121	.49352	25.08	.50652
#2	24.246	25.949	.47863	24.056	.49797	.48533	.49171	24.205	.48900	.49197	25.12	.50738

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49052	24.542	.49471	.49020	.49510	.49556	.48370	.48782
Stddev	.00041	.063	.00048	.00128	.00054	.00082	.00004	.00069
%RSD	.08366	.25476	.09763	.26116	.10822	.16540	.00898	.14068

#1	.49081	24.586	.49436	.48930	.49472	.49614	.48373	.48733
#2	.49023	24.498	.49505	.49111	.49548	.49498	.48367	.48830

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4465.6	7294.4	97282.	8695.8
Stddev	.5	4.9	57.	19.7
%RSD	.01069	.06743	.05812	.22687
#1	4465.3	7297.9	97322.	8709.8
#2	4466.0	7290.9	97242.	8681.9

Sample Name: CCB-1673361 Acquired: 10/18/2013 11:13:35 Type: QC

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00036	.01236	.00370	.00054	-.00002	.00003	.00643	-.00005	-.00003	.00026	-.00009	-.00157
Stddev	.00053	.01652	.00043	.00032	.00000	.00000	.01059	.00002	.00004	.00013	.00019	.00121
%RSD	148.09	133.64	11.558	59.963	13.832	6.9752	164.58	36.095	130.41	52.507	213.02	76.893

#1	.00073	.00068	.00339	.00077	-.00001	.00003	-.00105	-.00006	-.00000	.00016	.00005	-.00242
#2	-.00002	.02405	.00400	.00031	-.00002	.00003	.01392	-.00003	-.00005	.00035	-.00022	-.00072

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06829	-.00030	-.00177	.01552	-.00007	-.00059	.00026	-.01048	-.00012	-.00078	.0002	-.00112
Stddev	.00613	.00008	.00124	.00340	.00000	.00037	.00003	.00275	.00013	.00041	.0042	.00131
%RSD	8.9744	26.275	69.850	21.928	4.5605	62.294	12.782	26.236	103.50	52.419	2229.	116.96

#1	.07262	-.00036	-.00265	.01793	-.00008	-.00085	.00029	-.01242	-.00003	-.00107	-.0028	-.00019
#2	.06395	-.00025	-.00090	.01312	-.00007	-.00033	.00024	-.00853	-.00021	-.00049	.0032	-.00204

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												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00314	.01852	-.00001	-.00013	-.00003	.00011	.00004	.00027
Stddev	.00046	.00861	.00024	.00014	.00002	.00177	.00017	.00023
%RSD	14.787	46.468	2594.4	102.85	76.635	1559.1	426.79	83.583

#1	.00281	.02460	-.00018	-.00023	-.00001	.00137	.00016	.00043
#2	.00347	.01243	.00016	-.00004	-.00005	-.00114	-.00008	.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4773.4	7355.6	99262.	8596.7
Stddev	1.7	3.5	314.	19.3
%RSD	.03567	.04758	.31634	.22490
#1	4774.6	7353.1	99484.	8610.4
#2	4772.2	7358.1	99040.	8583.0

Sample Name: CCVL-1680809 Acquired: 10/18/2013 11:16:00 Type: QC

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00242	.22746	.01275	.02061	.00208	.00214	.52145	.00086	.00393	.00394	.00989	.04725
Stddev	.00028	.00058	.00022	.00000	.00002	.00001	.00435	.00006	.00008	.00032	.00007	.00043
%RSD	11.502	.25329	1.7181	.01214	.81589	.23394	.83344	7.0389	2.1089	8.1843	.74806	.90914

#1	.00223	.22786	.01290	.02061	.00207	.00215	.51838	.00082	.00399	.00417	.00995	.04694
#2	.00262	.22705	.01259	.02061	.00209	.00214	.52452	.00091	.00387	.00372	.00984	.04755

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40461	.42067	F .00191	.21093	.00302	.00292	.01023	.90078	.00974	.00511	F .0010	.01968
Stddev	.01739	.00293	.00033	.00233	.00003	.00008	.00009	.00106	.00003	.00037	.0022	.00075
%RSD	4.2971	.69556	17.374	1.1040	.99518	2.8905	.84011	.11789	.32973	7.3319	220.5	3.8253

#1	.39232	.41860	.00167	.20928	.00304	.00298	.01017	.90153	.00972	.00485	.0025	.02022
#2	.41691	.42274	.00214	.21257	.00300	.00286	.01029	.90003	.00977	.00538	-.0005	.01915

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01522	.52506	.00965	.00497	.00485	.02087	.00496	.00985
Stddev	.00412	.00854	.00001	.00006	.00009	.00019	.00057	.00053
%RSD	27.047	1.6258	.10617	1.3009	1.9296	.91067	11.425	5.4160

#1	.01231	.51902	.00965	.00502	.00492	.02074	.00456	.00948
#2	.01813	.53109	.00966	.00493	.00478	.02101	.00537	.01023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4788.1	7394.2	99440.	8568.5
Stddev	.6	1.2	38.	32.7
%RSD	.01216	.01586	.03854	.38165
#1	4787.7	7393.4	99413.	8591.6
#2	4788.5	7395.1	99467.	8545.3

Sample Name: MB 480-145615/1-A Acquired: 10/18/2013 11:18:25 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00041	.05070	.00027	.00562	.00005	-0.00003	.07463	-0.00010	-0.00012
Stddev	.00021	.01915	.00298	.00003	.00001	.00016	.00325	.00007	.00003
%RSD	51.400	37.782	1100.1	.59007	19.143	595.21	4.3599	73.186	25.658

#1	-0.00026	.06424	.00238	.00560	.00005	-0.00014	.07233	-0.00015	-0.00009
#2	-0.00056	.03715	-0.00184	.00564	.00004	.00009	.07693	-0.00005	-0.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.00007	-0.00386	-0.00382	.00025	-0.00099	.00717	.00021	.00033
Stddev	.00005	.00013	.00255	.02435	.00000	.00005	.00222	.00004	.00001
%RSD	60.201	190.32	66.111	638.16	.21439	5.0332	30.935	18.948	2.1420

#1	.00011	-0.00002	-0.00205	-0.02103	.00025	-0.00102	.00873	.00019	.00032
#2	.00005	.00016	-0.00566	.01340	.00025	-0.00095	.00560	.00024	.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	-0.00410	.00019	.00042	.0016	-0.00031	.00215	.00082	-0.00011
Stddev	.00007	.00377	.00038	.00047	.0026	.00022	.00059	.00104	.00013
%RSD	58.232	91.916	197.48	112.88	160.6	70.517	27.316	126.84	117.35

#1	.00017	-0.00144	-0.00008	.00075	-0.0002	-0.00047	.00173	.00008	-0.00002
#2	.00007	-0.00677	.00047	.00008	.0034	-0.00016	.00256	.00155	-0.00021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00050	-0.00012	.00145	.00032	.00135
Stddev	.00025	.00000	.00127	.00009	.00001
%RSD	51.227	3.0660	87.617	28.375	.76105

#1	.00032	-0.00013	.00055	.00039	.00136
#2	.00067	-0.00012	.00234	.00026	.00134

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4818.2	7435.8	100460.	8636.2
Stddev	1.5	17.8	365.	4.7
%RSD	.03176	.23980	.36365	.05393

#1	4819.3	7448.4	100200.	8632.9
#2	4817.2	7423.2	100720.	8639.5

Sample Name: LCS 480-145615/2-A Acquired: 10/18/2013 11:20:50 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04983	10.298	.20737	.20731	.20482	.20577	9.9818	.20474	.19975
Stddev	.00010	.065	.00175	.00040	.00178	.00010	.0561	.00023	.00056
%RSD	.19450	.62986	.84418	.19315	.86696	.04778	.56150	.11085	.28202

#1	.04977	10.344	.20613	.20703	.20607	.20584	10.021	.20490	.20015
#2	.04990	10.252	.20861	.20760	.20356	.20570	9.9422	.20458	.19935

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20026	.20006	10.144	9.5712	10.042	.19406	10.245	.20367	.19408
Stddev	.00218	.00306	.018	.0158	.063	.00043	.026	.00023	.00164
%RSD	1.0871	1.5275	.18200	.16535	.62393	.22085	.25601	.11468	.84453

#1	.20180	.20222	10.157	9.5824	9.9977	.19375	10.264	.20384	.19524
#2	.19873	.19790	10.131	9.5600	10.086	.19436	10.227	.20351	.19292

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20676	9.6283	.19953	.19872	10.28	.20524	.20756	10.068	.19421
Stddev	.00019	.0690	.00032	.00175	.02	.00042	.00323	.040	.00000
%RSD	.09285	.71657	.16085	.88249	.2196	.20575	1.5554	.39685	.00163

#1	.20690	9.6771	.19976	.19748	10.30	.20554	.20984	10.096	.19421
#2	.20663	9.5795	.19931	.19996	10.26	.20494	.20527	10.040	.19421

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20177	.19458	.20132	.20123	.19811
Stddev	.00078	.00014	.00211	.00211	.00155
%RSD	.38683	.06959	1.0476	1.0465	.78233

#1	.20122	.19467	.19983	.20272	.19921
#2	.20232	.19448	.20281	.19974	.19702

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4609.7	7328.9	98946.	8692.3
Stddev	1.6	9.8	419.	35.0
%RSD	.03373	.13324	.42354	.40307

#1	4608.6	7335.8	98650.	8667.6
#2	4610.8	7322.0	99243.	8717.1

Sample Name: CCV Acquired: 10/18/2013 11:23:11 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48971	24.742	.50026	.48392	.49404	.49705	24.507	.49448	.48746	.48586	.48508	24.328
Stddev	.00202	.051	.00115	.00142	.00133	.00031	.072	.00260	.00027	.00005	.00139	.031
%RSD	.41244	.20478	.23080	.29262	.26867	.06280	.29336	.52556	.05478	.01070	.28599	.12543

#1	.48828	24.777	.49944	.48492	.49498	.49683	24.558	.49632	.48765	.48582	.48409	24.306
#2	.49113	24.706	.50108	.48292	.49311	.49727	24.456	.49264	.48727	.48589	.48606	24.349

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.459	26.327	.48333	23.965	.49834	.48471	.49031	24.179	.49198	.49458	25.48	.51219
Stddev	.147	.014	.00271	.037	.00081	.00021	.00268	.127	.00042	.00128	.03	.00279
%RSD	.59919	.05284	.56025	.15623	.16187	.04318	.54672	.52524	.08514	.25792	.1365	.54383

#1	24.562	26.317	.48525	23.991	.49777	.48485	.49221	24.269	.49228	.49367	25.50	.51415
#2	24.355	26.337	.48142	23.938	.49891	.48456	.48842	24.090	.49169	.49548	25.46	.51022

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49456	24.485	.48946	.49201	.48884	.49915	.47902	.48157
Stddev	.00150	.078	.00039	.00061	.00065	.00132	.00104	.00066
%RSD	.30336	.31821	.08063	.12486	.13202	.26498	.21755	.13725

#1	.49563	24.540	.48918	.49157	.48839	.50008	.47828	.48204
#2	.49350	24.430	.48974	.49244	.48930	.49821	.47975	.48111

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4458.1	7303.0	97643.	8649.6
Stddev	3.6	13.1	125.	8.0
%RSD	.08144	.17968	.12813	.09298
#1	4460.7	7293.7	97732.	8655.3
#2	4455.6	7312.3	97555.	8643.9

Sample Name: CCB Acquired: 10/18/2013 11:25:32 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00022	.01286	.00341	.00052	-0.00002	-0.00004	.00217	-0.00009	-0.00006	-0.00012	-0.00057	-0.00576
Stddev	.00005	.04593	.00123	.00033	.00000	.00004	.00352	.00005	.00005	.00020	.00003	.00077
%RSD	20.157	357.04	35.923	62.341	5.6312	83.011	162.07	52.814	73.065	170.23	5.5334	13.308

#1	-0.00019	.04534	.00255	.00029	-0.00002	-0.00007	-0.00032	-0.00006	-0.00003	-0.00026	-0.00059	-0.00522
#2	-0.00026	-0.01961	.00428	.00076	-0.00002	-0.00002	.00466	-0.00012	-0.00010	.00002	-0.00055	-0.00630

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00065	-0.00082	-0.00135	.00634	-0.00007	.00007	.00044	-0.00368	-0.00008	-0.00068	F .0041	-0.00037
Stddev	.01331	.00044	.00002	.00266	.00002	.00029	.00033	.00252	.00037	.00059	.0018	.00145
%RSD	2047.7	53.736	1.5263	41.932	24.828	396.73	76.610	68.414	469.54	86.586	44.08	388.57

#1	-0.00876	-0.00051	-0.00137	.00822	-0.00006	-0.00013	.00020	-0.00546	-0.00034	-0.00110	.0028	.00065
#2	.01006	-0.00113	-0.00134	.00446	-0.00009	.00028	.00067	-0.00190	.00018	-0.00026	.0054	-0.00140

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-0.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00067	.00360	-0.00023	.00004	.00001	.00126	.00005	.00019
Stddev	.00211	.01677	.00020	.00000	.00028	.00051	.00021	.00008
%RSD	314.33	466.14	85.359	9.6316	2097.3	40.675	424.36	40.042

#1	-0.00082	-0.00826	-0.00037	.00004	-0.00019	.00090	-0.00010	.00024
#2	.00216	.01545	-0.00009	.00004	.00021	.00162	.00020	.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4779.7	7391.6	100930.	8586.9
Stddev	7.9	1.7	255.	26.8
%RSD	.16467	.02296	.25288	.31243
#1	4774.1	7390.4	101110.	8605.9
#2	4785.2	7392.8	100750.	8568.0

Sample Name: CCVL Acquired: 10/18/2013 11:27:58 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00260	.23636	.01166	.02058	.00204	.00210	.50142	.00094	.00394	.00388	.00925	.04331
Stddev	.00012	.01660	.00014	.00026	.00001	.00004	.00130	.00001	.00008	.00004	.00014	.00241
%RSD	4.7856	7.0248	1.1671	1.2661	.27970	1.8483	.25902	.90751	1.9582	1.0829	1.4757	5.5749

#1	.00269	.24810	.01175	.02076	.00204	.00213	.50234	.00094	.00400	.00391	.00935	.04502
#2	.00251	.22462	.01156	.02040	.00205	.00207	.50050	.00095	.00389	.00385	.00916	.04160

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.54402	.41596	F .00206	.20583	.00302	.00279	.01032	.88461	.00996	.00460	F .0015	.01970
Stddev	.03774	.00250	.00029	.00155	.00002	.00062	.00014	.01069	.00002	.00080	.0038	.00101
%RSD	6.9367	.60220	14.110	.75521	.75014	22.205	1.3938	1.2084	.21210	17.410	253.1	5.1265

#1	.57071	.41773	.00227	.20693	.00303	.00323	.01042	.89217	.00998	.00517	.0042	.02042
#2	.51734	.41418	.00185	.20473	.00300	.00235	.01022	.87705	.00995	.00404	-.0012	.01899

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01573	.50098	.00949	.00516	.00489	.02108	.00484	.01021
Stddev	.00082	.02916	.00000	.00026	.00014	.00060	.00006	.00011
%RSD	5.1841	5.8215	.01956	4.9953	2.8677	2.8660	1.2715	1.1110

#1	.01515	.52160	.00949	.00535	.00499	.02066	.00489	.01013
#2	.01630	.48036	.00949	.00498	.00479	.02151	.00480	.01029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4782.8	7413.5	100810.	8607.1
Stddev	1.6	.0	6.	26.7
%RSD	.03318	.00037	.00634	.31018
#1	4781.7	7413.5	100810.	8588.3
#2	4783.9	7413.4	100800.	8626.0

Sample Name: 480-48106-A-1-A Acquired: 10/18/2013 11:30:23 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00040	.07340	.00360	.03247	.03410	.00003	19.303	.00004	-0.00009
Stddev	.00082	.02597	.00118	.00020	.00004	.00007	.067	.00002	.00006
%RSD	203.18	35.384	32.933	.61114	.11664	245.62	.34676	69.736	61.574

#1	.00018	.05504	.00444	.03233	.03413	-.00002	19.256	.00005	-.00005
#2	-.00098	.09177	.00276	.03261	.03407	.00008	19.351	.00002	-.00013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00045	.39473	.03493	2.7308	3.1305	.00339	3.4075	.00366	.00359
Stddev	.00001	.00116	.00379	.0127	.0056	.00006	.0039	.00010	.00064
%RSD	2.1984	.29457	10.839	.46591	.17824	1.8847	.11554	2.6066	17.683

#1	.00046	.39555	.03225	2.7218	3.1345	.00335	3.4047	.00372	.00404
#2	.00044	.39391	.03760	2.7398	3.1266	.00344	3.4103	.00359	.00314

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	26.994	.00425	.01511	5.618	-0.00049	.00039	3.8523	.00112
Stddev	.00011	.106	.00021	.00028	.019	.00048	.00261	.0198	.00011
%RSD	339.23	.39306	4.8479	1.8776	.3404	98.956	678.64	.51274	9.7076

#1	.00011	26.919	.00410	.01531	5.605	-.00015	.00223	3.8383	.00105
#2	-.00004	27.069	.00440	.01491	5.632	-.00083	-.00146	3.8662	.00120

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09319	.00018	.00206	.00017	.19530
Stddev	.00055	.00004	.00098	.00019	.00150
%RSD	.58516	23.328	47.366	106.18	.76970

#1	.09280	.00021	.00276	.00004	.19636
#2	.09357	.00015	.00137	.00031	.19424

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4606.1	7263.2	97662.	8636.0
Stddev	11.9	13.3	42.	33.9
%RSD	.25787	.18274	.04350	.39197

#1	4614.5	7272.5	97692.	8659.9
#2	4597.7	7253.8	97632.	8612.1

Sample Name: 480-48106-A-2-A Acquired: 10/18/2013 11:32:44 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	.06130	.00291	.07983	.06748	-0.00004	20.738	.00209	.00326
Stddev	.00025	.00080	.00088	.00045	.00010	.00002	.081	.00001	.00014
%RSD	99.410	1.3112	30.076	.56842	.14976	44.377	.39263	.69862	4.2155

#1	.00043	.06186	.00353	.08015	.06741	-0.00003	20.796	.00208	.00336
#2	.00007	.06073	.00229	.07951	.06755	-0.00005	20.681	.00210	.00317

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	.04371	.13144	4.5055	5.2676	.00079	8.0997	.10369	.09886
Stddev	.00004	.00008	.00227	.0138	.0550	.00003	.0246	.00020	.00055
%RSD	5.9331	.18599	1.7288	.30653	1.0446	3.5719	.30365	.19505	.56030

#1	.00066	.04365	.13305	4.5153	5.3065	.00077	8.1171	.10355	.09925
#2	.00072	.04376	.12983	4.4958	5.2287	.00081	8.0823	.10384	.09847

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00019	24.790	.02761	.01923	4.356	-0.00158	.00107	3.3666	.00220
Stddev	.00020	.110	.00047	.00110	.001	.00166	.00075	.0223	.00013
%RSD	107.59	.44514	1.7127	5.7360	.0205	104.61	70.132	.66159	6.0688

#1	.00033	24.868	.02794	.02001	4.357	-0.00041	.00054	3.3823	.00229
#2	.00005	24.712	.02727	.01845	4.355	-0.00276	.00161	3.3508	.00210

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.10172	.00033	.00166	.00023	.58676
Stddev	.00060	.00007	.00136	.00015	.00316
%RSD	.59463	21.083	81.730	63.629	.53808

#1	.10129	.00037	.00263	.00013	.58453
#2	.10215	.00028	.00070	.00033	.58899

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4567.3	7226.9	98574.	8711.7
Stddev	4.1	.7	107.	20.1
%RSD	.08889	.00967	.10807	.23074
#1	4570.2	7226.4	98499.	8697.5
#2	4564.4	7227.4	98650.	8725.9

Sample Name: 480-48106-A-2-A SD@5 Acquired: 10/18/2013 11:35:08 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00018	.04226	.00296	.01631	.01437	.00001	4.2505	.00037	.00054
Stddev	.00023	.02352	.00035	.00007	.00012	.00003	.0064	.00002	.00008
%RSD	126.65	55.643	11.679	.40195	.86331	295.09	.15008	4.6990	14.271

#1	.00002	.05889	.00271	.01626	.01446	.00003	4.2460	.00038	.00049
#2	.00035	.02564	.00320	.01636	.01428	-.00001	4.2550	.00036	.00059

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	.00873	.02141	.86759	.88055	-.00033	1.6439	.02122	.02015
Stddev	.00039	.00012	.00216	.03204	.00084	.00159	.0014	.00003	.00025
%RSD	1049.4	1.3780	10.079	3.6926	.09498	488.89	.08584	.12302	1.2511

#1	.00031	.00882	.01989	.84494	.87996	-.00145	1.6429	.02124	.01997
#2	-.00024	.00865	.02294	.89024	.88114	.00080	1.6448	.02120	.02033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	4.8465	.00562	.00366	.8417	.00051	.00077	.68642	.00005
Stddev	.00006	.0248	.00008	.00052	.0052	.00065	.00060	.02102	.00055
%RSD	97.403	.51160	1.3878	14.192	.6232	127.79	77.798	3.0618	1185.1

#1	.00002	4.8289	.00556	.00403	.8454	.00097	.00035	.67155	.00043
#2	.00011	4.8640	.00568	.00329	.8379	.00005	.00119	.70128	-.00034

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.02051	.00015	.00250	.00004	.12158
Stddev	.00007	.00015	.00142	.00004	.00071
%RSD	.33567	102.81	56.833	101.44	.58035

#1	.02046	.00004	.00149	.00001	.12207
#2	.02056	.00026	.00350	.00007	.12108

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4751.1	7381.7	98746.	8586.0
Stddev	8.9	6.8	188.	17.9
%RSD	.18733	.09254	.19058	.20830

#1	4744.8	7376.9	98613.	8598.7
#2	4757.4	7386.5	98879.	8573.4

Sample Name: 480-48106-A-2-A PDS Acquired: 10/18/2013 11:37:31 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05015	10.665	.20724	.28776	.27690	.20546	30.333	.20506	.20362
Stddev	.00046	.028	.00069	.00016	.00025	.00029	.045	.00020	.00050
%RSD	.91158	.26093	.33385	.05570	.08956	.14283	.14697	.09746	.24771

#1	.04982	10.685	.20773	.28764	.27707	.20566	30.365	.20492	.20398
#2	.05047	10.646	.20675	.28787	.27672	.20525	30.302	.20520	.20326

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19956	.24217	10.226	14.929	16.874	.21085	18.008	.30091	.29208
Stddev	.00002	.00074	.037	.016	.213	.00309	.013	.00033	.00000
%RSD	.00879	.30474	.36009	.10910	1.2641	1.4646	.07185	.11070	.00127

#1	.19957	.24269	10.252	14.941	17.025	.21303	18.017	.30067	.29208
#2	.19955	.24165	10.200	14.918	16.723	.20867	17.999	.30115	.29208

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20438	35.110	.22659	.21827	4.220	.20421	.20393	13.612	.22872
Stddev	.00003	.105	.00066	.00158	.009	.00136	.00124	.026	.00038
%RSD	.01248	.29848	.29168	.72200	.2229	.66509	.60568	.19158	.16764

#1	.20436	35.184	.22706	.21938	4.213	.20517	.20306	13.631	.22845
#2	.20440	35.036	.22612	.21716	4.226	.20325	.20481	13.594	.22899

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.30722	.19225	.20203	.20021	.77944
Stddev	.00031	.00119	.00012	.00020	.00009
%RSD	.10027	.61748	.05877	.10085	.01187

#1	.30701	.19309	.20195	.20035	.77938
#2	.30744	.19141	.20212	.20006	.77951

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4450.1	7247.6	9717.2	8624.2
Stddev	1.2	4.7	41.	32.8
%RSD	.02761	.06503	.04234	.37993

#1	4449.3	7250.9	97201.	8647.3
#2	4451.0	7244.2	97143.	8601.0

Sample Name: 480-48106-A-2-B MS Acquired: 10/18/2013 11:39:50 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04959	10.255	.20633	.28058	.26682	.20755	30.763	.20700	.20531
Stddev	.00076	.016	.00381	.00064	.00043	.00054	.035	.00001	.00042
%RSD	1.5323	.16067	1.8451	.22780	.16128	.25919	.11406	.00531	.20364

#1	.05013	10.267	.20364	.28103	.26712	.20717	30.788	.20700	.20560
#2	.04905	10.243	.20902	.28013	.26651	.20793	30.739	.20701	.20501

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20027	.24316	10.420	14.672	16.649	.20008	18.234	.30397	.29291
Stddev	.00043	.00106	.004	.068	.042	.00028	.052	.00002	.00119
%RSD	.21560	.43585	.03883	.46419	.24945	.13938	.28718	.00538	.40631

#1	.20057	.24391	10.422	14.624	16.619	.20028	18.271	.30398	.29207
#2	.19996	.24241	10.417	14.720	16.678	.19989	18.197	.30395	.29375

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20519	35.258	.22920	.22752	F 14.76	.20629	.21064	13.385	.19873
Stddev	.00005	.102	.00052	.00161	.07	.00189	.00226	.036	.00086
%RSD	.02496	.29071	.22620	.70793	.4711	.91548	1.0716	.26603	.43440

#1	.20522	35.185	.22957	.22866	14.71	.20495	.20905	13.410	.19934
#2	.20515	35.330	.22883	.22638	14.81	.20762	.21224	13.360	.19812

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.30302	.19355	.20299	.19986	.79830
Stddev	.00046	.00147	.00113	.00134	.00620
%RSD	.15089	.75811	.55613	.66826	.77645

#1	.30270	.19459	.20219	.20080	.80269
#2	.30334	.19252	.20379	.19891	.79392

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4455.5	7255.8	97300.	8616.1
Stddev	1.5	9.4	191.	5.4
%RSD	.03321	.13016	.19606	.06282

#1	4456.6	7262.5	97165.	8612.2
#2	4454.5	7249.1	97435.	8619.9

Sample Name: 480-48106-A-2-C MSD Acquired: 10/18/2013 11:42:09 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04989	10.341	.21092	.28270	.26884	.20899	30.698	.20800	.20639
Stddev	.00081	.015	.00032	.00055	.00093	.00014	.173	.00011	.00025
%RSD	1.6186	.14141	.15364	.19441	.34557	.06881	.56200	.05156	.12140

#1	.05046	10.351	.21070	.28309	.26950	.20889	30.820	.20793	.20657
#2	.04932	10.330	.21115	.28232	.26818	.20910	30.576	.20808	.20621

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20015	.24377	10.387	14.712	16.588	.20233	18.266	.30555	.29504
Stddev	.00051	.00058	.017	.061	.284	.00147	.010	.00030	.00059
%RSD	.25234	.23930	.16775	.41664	1.7144	.72519	.05363	.09790	.20010

#1	.20050	.24418	10.399	14.755	16.789	.20337	18.259	.30533	.29546
#2	.19979	.24336	10.374	14.668	16.387	.20130	18.273	.30576	.29463

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20671	35.193	.23144	.22229	F 14.90	.20949	.20578	13.351	.20021
Stddev	.00000	.183	.00077	.00059	.01	.00059	.00590	.077	.00070
%RSD	.00002	.52029	.33233	.26631	.0416	.28270	2.8676	.57709	.34789

#1	.20671	35.322	.23199	.22187	14.91	.20907	.20995	13.405	.19971
#2	.20671	35.064	.23090	.22270	14.90	.20991	.20161	13.296	.20070

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.30487	.19512	.20860	.19985	.78097
Stddev	.00016	.00100	.00112	.00019	.00285
%RSD	.05115	.51149	.53697	.09373	.36470

#1	.30476	.19442	.20939	.19998	.77896
#2	.30498	.19583	.20780	.19971	.78298

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4452.0	7253.9	97662.	8649.9
Stddev	2.7	.1	6.	31.4
%RSD	.06115	.00120	.00622	.36253

#1	4450.1	7253.8	97666.	8627.7
#2	4454.0	7253.9	97658.	8672.1

Sample Name: MB 480-145322/1-A Acquired: 10/18/2013 11:44:27 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00029	.03001	.00128	.00092	.00005	-0.00005	.03249	.00005	-0.00016
Stddev	.00017	.01126	.00264	.00037	.00000	.00006	.00229	.00001	.00003
%RSD	58.076	37.509	206.77	40.154	3.1861	140.22	7.0437	29.564	20.563

#1	-0.00017	.03798	.00314	.00066	.00006	-0.00009	.03087	.00006	-0.00019
#2	-0.00041	.02205	-0.00059	.00118	.00005	-0.00000	.03411	.00004	-0.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00048	-0.00043	.00163	.07137	.03211	-0.00090	.00229	.00004	.00004
Stddev	.00001	.00018	.00232	.00061	.00040	.00022	.00122	.00001	.00000
%RSD	1.5666	41.156	142.68	.85833	1.2353	24.123	53.150	14.787	5.7815

#1	.00048	-0.00030	-0.00001	.07094	.03239	-0.00074	.00315	.00004	.00004
#2	.00047	-0.00055	.00327	.07180	.03183	-0.00105	.00143	.00005	.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	.00606	.00003	-0.00050	.0116	.00014	.00096	.11349	F .04773
Stddev	.00008	.00282	.00029	.00099	.0060	.00016	.00312	.02621	.00052
%RSD	49.093	46.584	1001.8	196.45	51.49	113.63	324.69	23.092	1.0967

#1	.00023	.00806	-0.00017	-0.00120	.0159	.00025	-0.00125	.09496	.04811
#2	.00011	.00406	.00023	.00020	.0074	.00003	.00317	.13202	.04736

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit									.01000
Low Limit									-0.01000

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00021	.00024	.00102	-0.00005	.00385
Stddev	.00001	.00008	.00083	.00014	.00008
%RSD	4.4917	33.290	81.487	316.76	2.1378

#1	.00020	.00030	.00160	-0.00015	.00379
#2	.00021	.00018	.00043	.00006	.00391

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4680.1	7218.0	99273.	8426.5
Stddev	.1	18.0	67.	26.6
%RSD	.00281	.24892	.06742	.31621

#1	4680.2	7205.3	99320.	8407.7
#2	4680.0	7230.7	99226.	8445.4

Sample Name: LCSSRM 480-145322/2- Acquired: 10/18/2013 11:46:52 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.58431	69.322	1.8291	1.0320	1.3259	.99439	56.174	.58235	1.6476
Stddev	.00164	.019	.0018	.0007	.0019	.00241	.200	.00006	.0013
%RSD	.28137	.02761	.09710	.06894	.14266	.24256	.35660	.01055	.07901

#1	.58315	69.336	1.8303	1.0325	1.3273	.99610	56.032	.58230	1.6485
#2	.58547	69.309	1.8278	1.0315	1.3246	.99268	56.316	.58239	1.6466

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1612	.77827	99.406	24.031	24.816	.06999	22.418	2.6531	2.5852
Stddev	.0029	.00185	.263	.029	.063	.00031	.094	.0104	.0077
%RSD	.24784	.23713	.26421	.12029	.25401	.43804	.41818	.39212	.29776

#1	1.1592	.77696	99.221	24.052	24.860	.06977	22.352	2.6458	2.5907
#2	1.1633	.77957	99.592	24.011	24.771	.07021	22.484	2.6605	2.5798

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.41558	3.9795	1.3009	1.3887	2.336	.58687	.85229	14.585	1.4556
Stddev	.00011	.0019	.0035	.0029	.005	.00437	.00018	.011	.0042
%RSD	.02541	.04876	.27231	.21243	.2283	.74450	.02158	.07773	.29138

#1	.41566	3.9808	1.3034	1.3866	2.340	.58996	.85242	14.577	1.4526
#2	.41551	3.9781	1.2984	1.3907	2.332	.58378	.85216	14.593	1.4586

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0430	2.6121	1.4629	.93482	1.8777
Stddev	.0044	.0079	.0057	.00356	.0085
%RSD	.42487	.30192	.38698	.38128	.45114

#1	1.0461	2.6065	1.4669	.93230	1.8717
#2	1.0399	2.6177	1.4589	.93734	1.8837

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4248.2	7329.0	97620.	8593.5
Stddev	6.2	2.6	112.	35.0
%RSD	.14630	.03496	.11450	.40724

#1	4243.8	7327.2	97700.	8618.2
#2	4252.6	7330.8	97541.	8568.8

Sample Name: 480-47940-A-1-B Acquired: 10/18/2013 11:49:13 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00165	132.71	.05119	.05249	1.2999	.00766	155.89	.00147	.11919
Stddev	.00062	.20	.00096	.00024	.0002	.00004	.33	.00005	.00058
%RSD	37.592	.15046	1.8743	.45211	.01861	.46509	.20856	3.0733	.48559

#1	-.00121	132.85	.05051	.05232	1.2998	.00763	156.12	.00144	.11960
#2	-.00209	132.57	.05187	.05266	1.3001	.00768	155.66	.00150	.11878

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.18149	.39223	282.16	16.345	18.711	.27168	65.308	4.6029	4.7082
Stddev	.00008	.00393	.14	.008	.175	.00067	.111	.0089	.0089
%RSD	.04281	1.0028	.04801	.05048	.93623	.24566	.17015	.19294	.18871

#1	.18144	.39501	282.07	16.351	18.835	.27216	65.229	4.5966	4.7145
#2	.18155	.38945	282.26	16.339	18.587	.27121	65.386	4.6092	4.7019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00622	.72361	.22753	.44849	1.412	-.00661	.00730	17.425	.02727
Stddev	.00005	.01066	.00021	.00363	.002	.00052	.00052	.097	.00008
%RSD	.78207	1.4736	.09234	.81016	.1194	7.8083	7.1156	.55646	.29146

#1	.00619	.71607	.22768	.44592	1.411	-.00624	.00693	17.494	.02722
#2	.00626	.73115	.22738	.45106	1.413	-.00697	.00767	17.357	.02733

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.35462	1.9038	-.00297	.24840	.92177
Stddev	.00013	.0025	.00024	.00129	.00229
%RSD	.03630	.13268	8.0323	.51746	.24868

#1	.35453	1.9056	-.00314	.24931	.92339
#2	.35471	1.9020	-.00280	.24749	.92015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4015.6	7186.4	95847.	8584.3
Stddev	3.2	5.7	302.	33.0
%RSD	.07858	.07932	.31507	.38422

#1	4013.3	7182.4	95633.	8560.9
#2	4017.8	7190.4	96060.	8607.6

Sample Name: CCV Acquired: 10/18/2013 11:51:48 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48885	24.903	.50016	.47822	.49229	.50009	24.953	.49107	.48922	.49386	.48427	24.696
Stddev	.00228	.073	.00236	.00125	.00016	.00078	.012	.00016	.00009	.00343	.00180	.014
%RSD	.46649	.29318	.47268	.26061	.03227	.15680	.04978	.03234	.01903	.69392	.37222	.05833

#1	.49046	24.954	.49849	.47734	.49217	.50065	24.944	.49096	.48915	.49629	.48554	24.707
#2	.48723	24.851	.50183	.47910	.49240	.49954	24.962	.49118	.48928	.49144	.48299	24.686

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.572	26.620	.47890	24.248	.50468	.48281	.48451	23.953	.49563	.49789	25.51	.50867
Stddev	.067	.069	.00137	.062	.00200	.00008	.00083	.020	.00054	.00236	.02	.00135
%RSD	.27169	.25946	.28620	.25597	.39649	.01750	.17232	.08271	.10955	.47319	.0929	.26462

#1	24.620	26.669	.47794	24.292	.50609	.48275	.48510	23.967	.49601	.49956	25.49	.50772
#2	24.525	26.571	.47987	24.204	.50326	.48287	.48392	23.939	.49525	.49622	25.52	.50962

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48561	24.568	.48930	.49139	.48746	.50142	.47979	.48970
Stddev	.00303	.080	.00067	.00069	.00081	.00310	.00220	.00221
%RSD	.62365	.32676	.13691	.14069	.16710	.61902	.45790	.45145

#1	.48347	24.511	.48978	.49188	.48804	.49922	.48134	.49126
#2	.48775	24.625	.48883	.49090	.48689	.50361	.47823	.48814

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4521.6	7464.9	98930.	8599.7
Stddev	9.2	17.2	123.	.2
%RSD	.20342	.23092	.12443	.00249
#1	4528.2	7477.1	98843.	8599.6
#2	4515.1	7452.7	99017.	8599.9

Sample Name: CCB Acquired: 10/18/2013 11:54:09 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00013	.03738	.00108	.00069	-.00001	-.00002	.00282	-.00011	-.00006	-.00000	-.00050	-.00345
Stddev	.00065	.01026	.00055	.00026	.00001	.00002	.00111	.00010	.00000	.00046	.00024	.00243
%RSD	505.81	27.451	51.277	37.701	81.492	74.801	39.301	87.827	1.2546	69439.	49.081	70.300

#1	.00033	.03013	.00147	.00087	-.00001	-.00001	.00361	-.00004	-.00005	.00033	-.00067	-.00517
#2	-.00059	.04464	.00069	.00050	-.00002	-.00003	.00204	-.00018	-.00006	-.00033	-.00032	-.00174

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01512	-.00116	-.00060	.00262	-.00006	-.00026	.00031	-.01576	-.00011	-.00071	.0002	-.00138
Stddev	.00060	.00018	.00043	.00573	.00000	.00008	.00011	.00234	.00006	.00137	.0037	.00022
%RSD	3.9557	15.367	72.440	218.43	4.5524	31.129	36.046	14.870	58.802	192.28	1541.	16.108

#1	-.01554	-.00103	-.00029	-.00143	-.00006	-.00032	.00023	-.01410	-.00015	-.00168	-.0024	-.00122
#2	-.01469	-.00129	-.00090	.00668	-.00006	-.00020	.00039	-.01742	-.00006	.00026	.0029	-.00154

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												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00196	.01078	-.00023	.00001	.00011	.00199	.00009	.00002
Stddev	.00149	.00633	.00084	.00006	.00024	.00090	.00011	.00046
%RSD	76.091	58.778	366.49	530.86	219.88	45.392	117.74	2938.3

#1	.00301	.01525	.00036	-.00003	.00028	.00135	.00017	-.00031
#2	.00090	.00630	-.00082	.00005	-.00006	.00263	.00002	.00034

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4838.7	7489.8	100950.	8550.3
Stddev	1.5	.0	289.	45.8
%RSD	.03079	.00010	.28651	.53512
#1	4839.8	7489.8	100740.	8582.6
#2	4837.7	7489.8	101150.	8517.9

Sample Name: CCVL Acquired: 10/18/2013 11:56:35 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00250	.20622	.01145	.02016	.00204	.00202	.50564	.00091	.00396	.00406	.00924	.04482
Stddev	.00007	.02243	.00151	.00011	.00003	.00008	.00317	.00005	.00003	.00023	.00013	.00404
%RSD	2.9076	10.879	13.151	.53506	1.3177	4.0758	.62714	5.7328	.66702	5.7536	1.4481	9.0110

#1	.00255	.22209	.01252	.02009	.00202	.00208	.50340	.00087	.00394	.00390	.00933	.04197
#2	.00245	.19036	.01039	.02024	.00206	.00196	.50788	.00094	.00398	.00423	.00914	.04768

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.41691	.42148	F .00250	.20677	.00313	.00279	.01008	.87928	.00967	.00444	F -.0019	.01887
Stddev	.01034	.00204	.00096	.00110	.00002	.00029	.00003	.00916	.00067	.00099	.0019	.00156
%RSD	2.4804	.48393	38.506	.53029	.61555	10.561	.31814	1.0413	6.9731	22.297	99.73	8.2660

#1	.42422	.42004	.00182	.20600	.00312	.00258	.01010	.88575	.00920	.00374	-.0033	.01777
#2	.40960	.42293	.00318	.20755	.00314	.00300	.01005	.87281	.01015	.00514	-.0006	.01997

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01561	.51810	.00959	.00515	.00494	.02039	.00479	.00995
Stddev	.00265	.00657	.00011	.00014	.00001	.00075	.00004	.00026
%RSD	17.002	1.2674	1.1347	2.6781	.19379	3.7000	.83613	2.5814

#1	.01373	.51346	.00967	.00505	.00494	.02092	.00482	.01013
#2	.01749	.52274	.00952	.00524	.00493	.01985	.00477	.00977

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4796.0	7488.6	101090.	8592.1
Stddev	7.8	7.2	437.	13.1
%RSD	.16226	.09601	.43276	.15303
#1	4790.5	7483.5	100780.	8601.4
#2	4801.5	7493.7	101400.	8582.8

Sample Name: 480-47940-A-1-B SD@5 Acquired: 10/18/2013 11:59:00 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00043	26.748	.01305	.01297	.26834	.00153	32.803	.00033	.02401
Stddev	.00091	.000	.00463	.00018	.00015	.00011	.036	.00007	.00015
%RSD	213.10	.00177	35.488	1.4230	.05453	7.2306	.11035	21.048	.62047

#1	.00022	26.748	.01632	.01284	.26823	.00145	32.777	.00037	.02411
#2	-.00107	26.748	.00977	.01310	.26844	.00161	32.828	.00028	.02390

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03902	.08043	58.608	3.1024	3.3741	.05113	14.110	1.0253	.98021
Stddev	.00024	.00022	.132	.0143	.0075	.00032	.015	.0004	.00452
%RSD	.60660	.27935	.22530	.45995	.22311	.62013	.10393	.03764	.46128

#1	.03885	.08028	58.515	3.0923	3.3688	.05090	14.121	1.0251	.98340
#2	.03918	.08059	58.702	3.1125	3.3794	.05135	14.100	1.0256	.97701

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00132	.11989	.04604	.09408	.2919	-.00156	.00205	3.1300	.00478
Stddev	.00024	.00537	.00012	.00036	.0037	.00020	.00064	.0218	.00045
%RSD	17.858	4.4785	.25394	.38746	1.264	12.612	31.176	.69540	9.3973

#1	.00116	.11609	.04612	.09434	.2945	-.00142	.00250	3.1454	.00447
#2	.00149	.12368	.04596	.09382	.2893	-.00169	.00160	3.1147	.00510

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.07462	.40024	-.00017	.05259	.20445
Stddev	.00023	.00071	.00014	.00028	.00069
%RSD	.30459	.17801	80.614	.53342	.33942

#1	.07478	.40074	-.00008	.05279	.20494
#2	.07446	.39973	-.00027	.05239	.20396

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4501.8	7364.7	98014.	8585.7
Stddev	1.3	2.7	120.	8.7
%RSD	.02846	.03603	.12200	.10133

#1	4500.9	7362.9	97930.	8591.8
#2	4502.7	7366.6	98099.	8579.5

Sample Name: 480-47940-A-1-B PDS Acquired: 10/18/2013 12:01:19 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09630	145.63	.45193	.45046	1.6329	.41491	164.90	.40393	.53147
Stddev	.00092	.32	.00037	.00196	.0065	.00036	.56	.00149	.00160
%RSD	.95764	.22000	.08178	.43490	.40014	.08729	.34098	.37003	.30067

#1	.09565	145.86	.45167	.44907	1.6375	.41466	164.51	.40287	.53034
#2	.09696	145.41	.45219	.45184	1.6283	.41517	165.30	.40499	.53260

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.54553	.76721	278.20	36.245	39.537	.68459	81.389	4.7330	4.8574
Stddev	.00213	.00380	.03	.325	.276	.00601	.200	.0005	.0187
%RSD	.39001	.49474	.01022	.89576	.69713	.87795	.24588	.00984	.38570

#1	.54402	.76453	278.18	36.474	39.342	.68884	81.248	4.7327	4.8706
#2	.54703	.76990	278.22	36.015	39.732	.68034	81.531	4.7334	4.8441

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 {57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.39774	20.943	.63127	.83994	1.349	.39714	.40223	36.777	.43193
Stddev	.00114	.146	.00021	.00380	.002	.00206	.00256	.107	.00213
%RSD	.28581	.69803	.03401	.45237	.1261	.51775	.63536	.29051	.49423

#1	.39693	21.046	.63112	.83725	1.348	.39860	.40042	36.853	.43042
#2	.39854	20.839	.63142	.84263	1.350	.39569	.40404	36.702	.43344

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.74688	2.1978	.40809	.61342	1.2094
Stddev	.00012	.0020	.00561	.00071	.0024
%RSD	.01633	.09240	1.3758	.11533	.20135

#1	.74697	2.1992	.40412	.61392	1.2111
#2	.74680	2.1964	.41206	.61292	1.2077

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3912.9	7089.4	95133.	8539.2
Stddev	3.4	4.4	100.	37.9
%RSD	.08636	.06257	.10523	.44404

#1	3915.3	7092.5	95063.	8566.0
#2	3910.5	7086.2	95204.	8512.4

Sample Name: 480-47940-A-1-C MS Acquired: 10/18/2013 12:03:46 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09283	188.12	.42024	.50496	1.6416	.38647	269.37	.37862	.48787
Stddev	.00057	.55	.00035	.00276	.0009	.00027	1.31	.00043	.00020
%RSD	.60906	.29409	.08340	.54636	.05486	.07064	.48555	.11451	.04121

#1	.09323	187.73	.42049	.50691	1.6422	.38666	268.45	.37892	.48773
#2	.09243	188.52	.41999	.50301	1.6410	.38628	270.30	.37831	.48801

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.56159	.83325	360.07	55.571	55.468	.65866	105.52	4.7382	4.9593
Stddev	.00285	.00278	2.13	.095	.006	.00250	.53	.0204	.0056
%RSD	.50733	.33365	.59168	.17041	.01013	.37889	.50055	.43081	.11240

#1	.55957	.83129	358.56	55.638	55.464	.66042	105.15	4.7237	4.9554
#2	.56360	.83522	361.57	55.504	55.472	.65689	105.90	4.7526	4.9632

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 {57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.35143	20.240	.63660	.95766	F 20.47	.16412	.35226	33.632	.35394
Stddev	.00037	.017	.00278	.00277	.02	.00005	.00213	.067	.00107
%RSD	.10664	.08198	.43621	.28896	.0855	.03205	.60472	.19938	.30160

#1	.35116	20.251	.63464	.95570	20.46	.16416	.35076	33.585	.35318
#2	.35169	20.228	.63857	.95962	20.48	.16408	.35377	33.679	.35469

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.89397	2.2409	.37786	.66407	1.5627
Stddev	.00414	.0095	.00204	.00396	.0149
%RSD	.46309	.42271	.54035	.59633	.95029

#1	.89690	2.2342	.37642	.66127	1.5522
#2	.89105	2.2476	.37930	.66687	1.5732

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3792.3	7070.4	94600.	8588.5
Stddev	3.3	14.0	142.	21.7
%RSD	.08754	.19792	.15061	.25217

#1	3789.9	7060.5	94701.	8603.9
#2	3794.6	7080.3	94499.	8573.2

Sample Name: 480-47940-A-1-D MSD Acquired: 10/18/2013 12:06:18 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09455	193.56	.47985	.49095	1.7268	.39236	163.25	.37959	.50850
Stddev	.00073	1.51	.00151	.00076	.0095	.00159	1.18	.00098	.00030
%RSD	.76790	.77818	.31533	.15446	.55084	.40449	.72461	.25725	.05822

#1	.09507	192.50	.48092	.49148	1.7201	.39124	162.41	.38028	.50829
#2	.09404	194.63	.47878	.49041	1.7336	.39348	164.09	.37890	.50871

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.58511	.88773	342.79	53.768	52.957	.67580	85.668	4.2082	4.3336
Stddev	.00314	.00325	3.07	.521	.569	.00719	.122	.0043	.0153
%RSD	.53600	.36652	.89603	.96981	1.0752	1.0636	.14209	.10300	.35227

#1	.58289	.88543	340.62	53.400	52.554	.67072	85.582	4.2113	4.3228
#2	.58733	.89003	344.96	54.137	53.359	.68089	85.754	4.2052	4.3444

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 {57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.36348	20.334	.65122	.92852	F 20.18	.17167	.35237	33.155	.39250
Stddev	.00081	.207	.00308	.00053	.09	.00106	.00499	.233	.00164
%RSD	.22326	1.0181	.47337	.05715	.4652	.61936	1.4153	.70390	.41802

#1	.36406	20.188	.64904	.92814	20.11	.17242	.34884	32.990	.39366
#2	.36291	20.480	.65340	.92889	20.24	.17091	.35589	33.320	.39134

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.75995	2.4496	.38077	.67884	1.3472
Stddev	.00084	.0012	.00178	.00403	.0038
%RSD	.11091	.04887	.46688	.59427	.28356

#1	.76054	2.4488	.37952	.67599	1.3445
#2	.75935	2.4504	.38203	.68169	1.3499

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3889.1	7190.9	94835.	8553.3
Stddev	1.5	11.6	77.	11.6
%RSD	.03793	.16153	.08137	.13597

#1	3890.2	7182.7	94889.	8561.5
#2	3888.1	7199.1	94780.	8545.1

Sample Name: MB 480-144782/1-A Acquired: 10/18/2013 12:08:45 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	.08984	-.00135	.00169	.00011	-.00005	.03873	.00002	-.00021
Stddev	.00061	.02175	.00039	.00008	.00001	.00008	.00038	.00001	.00001
%RSD	813.35	24.207	28.628	4.6059	9.8207	158.97	.97186	39.968	6.5064

#1	-.00036	.10522	-.00162	.00174	.00012	-.00010	.03899	.00001	-.00022
#2	.00051	.07447	-.00107	.00163	.00010	.00001	.03846	.00002	-.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00028	.00002	.01065	.01680	.03707	-.00015	.00328	.00017	-.00011
Stddev	.00026	.00020	.00175	.04053	.00017	.00064	.00343	.00000	.00006
%RSD	93.615	1136.4	16.394	241.32	.45716	434.43	104.62	1.4199	48.593

#1	.00047	-.00012	.00941	-.01186	.03695	.00030	.00570	.00017	-.00007
#2	.00010	.00016	.01188	.04546	.03719	-.00060	.00085	.00016	-.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00004	-.00084	.00001	.00024	.0092	-.00049	.00197	.12764	F .04724
Stddev	.00016	.00475	.00014	.00017	.0052	.00014	.00076	.00574	.00084
%RSD	452.24	563.60	1040.8	70.859	56.64	28.709	38.831	4.4982	1.7821

#1	-.00015	-.00420	.00011	.00012	.0055	-.00039	.00251	.12358	.04783
#2	.00008	.00251	-.00008	.00036	.0129	-.00059	.00143	.13170	.04664

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit									.01000
Low Limit									-.01000

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00017	.00063	-.00168	.00019	.00435
Stddev	.00003	.00003	.00236	.00010	.00022
%RSD	18.092	4.0193	140.23	54.300	4.9813

#1	.00015	.00061	-.00335	.00027	.00420
#2	.00019	.00065	-.00001	.00012	.00451

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4730.4	7335.7	99642.	8355.8
Stddev	2.3	5.9	82.	49.3
%RSD	.04789	.08067	.08237	.59001

#1	4732.0	7331.5	99584.	8321.0
#2	4728.8	7339.9	99700.	8390.7

Sample Name: LCSSRM 480-144782/2- Acquired: 10/18/2013 12:11:10 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.59582	75.064	1.8739	1.0865	1.4080	1.0198	57.105	.59751	1.6991
Stddev	.00204	.024	.0002	.0015	.0070	.0020	.304	.00056	.0001
%RSD	.34190	.03166	.00956	.13786	.49682	.19748	.53212	.09415	.00760

#1	.59727	75.081	1.8740	1.0876	1.4130	1.0184	56.891	.59712	1.6990
#2	.59438	75.047	1.8738	1.0855	1.4031	1.0213	57.320	.59791	1.6992

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1769	.78783	102.64	25.526	25.865	.07273	23.349	2.7194	2.6406
Stddev	.0057	.00364	.30	.104	.415	.00012	.040	.0052	.0278
%RSD	.48804	.46227	.29269	.40683	1.6050	.16427	.17085	.19175	1.0521

#1	1.1810	.79041	102.43	25.600	25.571	.07264	23.378	2.7231	2.6602
#2	1.1729	.78526	102.85	25.453	26.159	.07281	23.321	2.7158	2.6209

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 {57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.43664	4.0648	1.3380	1.4346	2.409	.73004	.87614	20.038	1.5513
Stddev	.00070	.0557	.0008	.0009	.003	.00118	.00542	.008	.0031
%RSD	.16117	1.3713	.06136	.06334	.1149	.16202	.61808	.03855	.20038

#1	.43614	4.1043	1.3374	1.4352	2.407	.72921	.87231	20.044	1.5491
#2	.43714	4.0254	1.3386	1.4339	2.411	.73088	.87997	20.033	1.5535

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0922	2.9282	1.5190	.96006	1.8937
Stddev	.0029	.0065	.0049	.00900	.0031
%RSD	.27036	.22321	.32184	.93781	.16452

#1	1.0901	2.9329	1.5224	.96642	1.8959
#2	1.0943	2.9236	1.5155	.95369	1.8914

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4247.6	7378.4	99104.	8683.4
Stddev	7.3	8.9	485.	76.3
%RSD	.17229	.12081	.48975	.87889

#1	4242.4	7372.1	98761.	8737.4
#2	4252.8	7384.7	99447.	8629.4

Sample Name: 480-47885-B-1-A Acquired: 10/18/2013 12:13:29 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00088	30.684	.04684	.10944	.31459	.00286	466.59	.00083	.03054
Stddev	.00034	.298	.00170	.00020	.00060	.00008	3.64	.00002	.00020
%RSD	38.601	.96973	3.6388	.17914	.19072	2.8023	.78059	2.9543	.66690

#1	-.00112	30.895	.04804	.10958	.31501	.00292	469.17	.00082	.03068
#2	-.00064	30.474	.04563	.10930	.31416	.00280	464.02	.00085	.03040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04240	.22098	84.313	10.825	14.172	.07550	185.22	2.5102	2.5574
Stddev	.00013	.00058	.658	.099	.229	.00232	.60	.0059	.0152
%RSD	.31408	.26422	.78079	.91672	1.6147	3.0686	.32556	.23663	.59488

#1	.04231	.22140	84.779	10.895	14.334	.07714	184.79	2.5060	2.5466
#2	.04250	.22057	83.848	10.755	14.010	.07387	185.64	2.5144	2.5681

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00221	1.3006	.09597	.88630	9.332	.00438	.00621	12.035	.04908
Stddev	.00000	.0031	.00060	.00009	.021	.00058	.00434	.121	.00013
%RSD	.07452	.23989	.62214	.01009	.2227	13.235	69.867	1.0012	.26923

#1	.00220	1.3028	.09554	.88636	9.347	.00479	.00928	12.121	.04898
#2	.00221	1.2984	.09639	.88623	9.317	.00397	.00314	11.950	.04917

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.34822	.53831	-.00028	.06542	.30210
Stddev	.00223	.00082	.00190	.00037	.00287
%RSD	.63937	.15286	688.95	.56650	.94882

#1	.34664	.53773	-.00162	.06516	.30007
#2	.34979	.53889	.00107	.06569	.30412

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3787.4	6879.7	91791.	8315.9
Stddev	.1	7.4	229.	56.1
%RSD	.00202	.10822	.24905	.67488

#1	3787.3	6874.4	91953.	8276.3
#2	3787.4	6884.9	91629.	8355.6

Sample Name: 480-47885-B-2-A Acquired: 10/18/2013 12:15:56 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00117	37.179	.03112	.03149	.12503	.00248	12.940	.00055	.05248
Stddev	.00019	.145	.00062	.00002	.00038	.00002	.048	.00013	.00015
%RSD	16.487	.38996	1.9920	.05517	.30571	.68482	.36999	24.042	.29321

#1	.00104	37.077	.03069	.03150	.12476	.00249	12.906	.00046	.05237
#2	.00131	37.282	.03156	.03148	.12530	.00247	12.974	.00065	.05258

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05191	.09768	104.43	5.5918	5.7549	.08221	16.587	1.5557	1.4626
Stddev	.00005	.00054	.83	.0470	.0257	.00067	.052	.0053	.0059
%RSD	.09058	.55189	.79755	.84065	.44640	.80938	.31581	.33838	.40267

#1	.05194	.09730	103.84	5.5586	5.7368	.08174	16.550	1.5520	1.4585
#2	.05188	.09806	105.02	5.6251	5.7731	.08268	16.624	1.5594	1.4668

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00590	1.2842	.12633	.09318	5.278	-.00409	.00393	8.9387	.04402
Stddev	.00027	.0079	.00052	.00085	.007	.00047	.00177	.0120	.00016
%RSD	4.6045	.61831	.41129	.91736	.1374	11.385	44.934	.13385	.37053

#1	.00570	1.2786	.12669	.09258	5.273	-.00442	.00268	8.9303	.04391
#2	.00609	1.2898	.12596	.09378	5.283	-.00376	.00518	8.9472	.04414

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05143	.50989	.00150	.07639	.35654
Stddev	.00014	.00144	.00049	.00076	.00301
%RSD	.26867	.28232	32.289	.99092	.84289

#1	.05133	.50887	.00185	.07586	.35441
#2	.05153	.51091	.00116	.07693	.35866

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4448.9	7566.8	101580.	8713.6
Stddev	5.2	15.7	291.	11.0
%RSD	.11608	.20772	.28691	.12667

#1	4445.3	7555.7	101790.	8705.8
#2	4452.6	7578.0	101370.	8721.4

Sample Name: 480-47885-B-3-A Acquired: 10/18/2013 12:18:19 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00073	41.498	.06708	.06331	.17360	.00291	205.21	.00030	.05597
Stddev	.00026	.032	.00024	.00004	.00003	.00007	.22	.00014	.00011
%RSD	35.479	.07733	.35058	.06902	.01817	2.3709	.10893	45.756	.19350

#1	-.00054	41.521	.06725	.06328	.17358	.00286	205.05	.00020	.05604
#2	-.00091	41.476	.06692	.06334	.17362	.00296	205.37	.00039	.05589

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05807	.11190	111.72	10.053	12.172	.10532	119.50	2.4172	2.3874
Stddev	.00034	.00012	.22	.030	.147	.00090	.16	.0026	.0018
%RSD	.58561	.10750	.19446	.29541	1.2059	.85460	.13063	.10741	.07342

#1	.05831	.11199	111.57	10.074	12.276	.10468	119.61	2.4190	2.3887
#2	.05783	.11182	111.88	10.032	12.068	.10595	119.39	2.4153	2.3862

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00468	2.4953	.14829	.11164	F 20.27	-.00275	.00586	10.900	.04240
Stddev	.00002	.0072	.00006	.00474	.00	.00129	.00081	.015	.00035
%RSD	.49726	.28837	.03975	4.2467	.0095	46.867	13.736	.14053	.83588

#1	.00467	2.5003	.14833	.10829	20.27	-.00184	.00529	10.889	.04265
#2	.00470	2.4902	.14825	.11499	20.27	-.00366	.00643	10.911	.04215

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.15820	.51523	-.00431	.08113	.49742
Stddev	.00024	.00037	.00031	.00041	.00305
%RSD	.15400	.07197	7.2320	.50805	.61247

#1	.15803	.51549	-.00453	.08084	.49958
#2	.15837	.51497	-.00409	.08142	.49527

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4002.3	7186.5	95706.	8475.1
Stddev	2.1	10.3	449.	16.1
%RSD	.05182	.14297	.46935	.19013

#1	4000.8	7179.2	95388.	8463.7
#2	4003.7	7193.7	96023.	8486.5

Sample Name: CCV Acquired: 10/18/2013 12:20:42 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48572	24.421	.49733	.47940	.48976	.49947	24.598	.49207	.48949	.48767	.47695	24.595
Stddev	.00241	.031	.00119	.00010	.00070	.00025	.086	.00006	.00061	.00347	.00301	.011
%RSD	.49664	.12570	.24013	.02159	.14234	.05073	.34992	.01223	.12427	.71201	.63078	.04498

#1	.48402	24.399	.49648	.47932	.49025	.49965	24.659	.49211	.48906	.48521	.47482	24.603
#2	.48743	24.443	.49817	.47947	.48927	.49929	24.537	.49203	.48992	.49012	.47908	24.587

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.290	26.153	.47781	24.216	.50355	.47826	.48560	23.714	.49513	.49762	25.54	.50779
Stddev	.006	.014	.00021	.002	.00025	.00197	.00048	.018	.00061	.00324	.02	.00007
%RSD	.02495	.05373	.04292	.00669	.04902	.41199	.09800	.07513	.12397	.65149	.0912	.01322

#1	24.294	26.143	.47767	24.215	.50338	.47686	.48526	23.702	.49557	.49533	25.52	.50774
#2	24.286	26.163	.47796	24.217	.50373	.47965	.48593	23.727	.49470	.49991	25.56	.50783

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48722	24.410	.48943	.49301	.48619	.50159	.47319	.48583
Stddev	.00436	.009	.00047	.00035	.00160	.00103	.00074	.00109
%RSD	.89425	.03601	.09643	.07143	.33007	.20486	.15607	.22343

#1	.49030	24.404	.48976	.49276	.48733	.50086	.47266	.48506
#2	.48414	24.416	.48910	.49326	.48506	.50231	.47371	.48659

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4540.7	7495.3	100210.	8693.9
Stddev	10.2	20.7	515.	5.7
%RSD	.22448	.27619	.51382	.06545
#1	4547.9	7509.9	100580.	8697.9
#2	4533.5	7480.6	99848.	8689.9

Sample Name: CCB Acquired: 10/18/2013 12:23:04 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00051	.04164	-0.00018	.00042	.00000	-0.00003	.00659	-0.00006	-0.00004	-0.00018	-0.00051	-0.00350
Stddev	.00042	.00895	.00046	.00073	.00001	.00002	.00004	.00003	.00002	.00009	.00007	.00052
%RSD	82.566	21.495	251.09	171.34	689.21	64.626	.54726	61.887	38.289	50.514	13.752	14.864

#1	-0.00021	.03531	.00014	.00094	-0.00000	-0.00002	.00662	-0.00008	-0.00003	-0.00011	-0.00046	-0.00313
#2	-0.00080	.04797	-0.00050	-0.00009	.00001	-0.00004	.00657	-0.00003	-0.00006	-0.00024	-0.00056	-0.00387

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.03358	-0.00099	.00063	.00302	.00005	-0.00048	.00020	-0.00601	-0.00019	-0.00037	F .0046	-0.00120
Stddev	.01976	.00035	.00079	.00085	.00003	.00060	.00017	.00234	.00013	.00150	.0013	.00055
%RSD	58.853	34.999	125.08	28.106	58.854	123.85	85.759	39.021	68.192	405.95	29.35	45.331

#1	-.01961	-.00074	.00119	.00242	.00003	-.00091	.00031	-.00435	-.00029	-.00143	.0036	-.00159
#2	-.04756	-.00123	.00007	.00362	.00007	-.00006	.00008	-.00767	-.00010	.00069	.0055	-.00082

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00054	.00814	-0.00005	.00009	.00002	.00055	.00012	.00018
Stddev	.00047	.00091	.00042	.00003	.00022	.00114	.00016	.00021
%RSD	87.157	11.186	927.24	31.576	1202.8	207.67	129.89	114.58

#1	.00021	.00749	-.00034	.00007	-.00014	-.00026	.00001	.00033
#2	.00088	.00878	.00025	.00011	.00017	.00135	.00023	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4835.8	7506.1	101200.	8491.2
Stddev	13.4	6.1	166.	4.4
%RSD	.27776	.08081	.16440	.05185
#1	4845.3	7510.4	101080.	8494.3
#2	4826.3	7501.8	101320.	8488.1

Sample Name: CCVL Acquired: 10/18/2013 12:25:30 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00246	.22310	.01225	.02032	.00206	.00206	.51554	.00093	.00393	.00403	.00914
Stddev	.00003	.01931	.00170	.00031	.00001	.00001	.00545	.00003	.00012	.00001	.00025
%RSD	1.3177	8.6549	13.895	1.5501	.40551	.26426	1.0570	2.9716	3.0323	.30058	2.7159

#1	.00249	.23676	.01105	.02054	.00207	.00206	.51939	.00095	.00401	.00404	.00896
#2	.00244	.20945	.01345	.02010	.00205	.00207	.51168	.00091	.00385	.00402	.00931

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	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05382	W .34993	.42838	F .00133	.20683	.00325	.00300	.01032	.87383	.01011	.00509
Stddev	.00353	.01535	.00274	.00065	.00046	.00000	.00026	.00002	.00093	.00040	.00055
%RSD	6.5608	4.3857	.64053	48.937	.22277	.03890	8.6971	.18076	.10654	3.9513	10.859

#1	.05133	.36079	.43032	.00087	.20650	.00325	.00318	.01033	.87317	.00983	.00470
#2	.05632	.33908	.42644	.00179	.20716	.00325	.00281	.01031	.87449	.01039	.00548

Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.50000		.03000							
Range		-30.000%		-50.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0023	.01963	.01615	.49915	.00915	.00496	.00481	.01859	.00484	.01007
Stddev	.0033	.00196	.00024	.00111	.00006	.00008	.00020	.00066	.00028	.00009
%RSD	144.6	10.003	1.5025	.22291	.64627	1.6120	4.1898	3.5408	5.7019	.89498

#1	-.0001	.01824	.01598	.49837	.00910	.00491	.00495	.01813	.00465	.01000
#2	.0047	.02101	.01632	.49994	.00919	.00502	.00467	.01906	.00504	.01013

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2000									
Range	-50.00%									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4820.2	7527.9	101370.	8495.9
Stddev	1.6	5.4	247.	14.9
%RSD	.03317	.07114	.24356	.17522

#1	4821.3	7524.2	101540.	8485.4
#2	4819.0	7531.7	101190.	8506.5

Sample Name: 480-47885-B-4-A Acquired: 10/18/2013 12:27:55 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00007	41.787	.12010	.09880	.46772	.44216	.00383	462.75	.00045
Stddev	.00092	.219	.00365	.00025	.00125	.00223	.00000	2.70	.00002
%RSD	1289.6	.52444	3.0385	.25323	.26778	.50399	.04298	.58309	3.5251

#1	.00058	41.942	.11752	.09862	.46861	.44374	.00383	464.66	.00044
#2	-.00072	41.632	.12268	.09898	.46683	.44058	.00383	460.84	.00046

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576
Line	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08812	.06089	.18011	161.87	13.428	17.495	.08852	123.15	6.9564
Stddev	.00010	.00055	.00031	1.34	.022	.209	.00001	.47	.0159
%RSD	.11452	.90206	.17441	.82890	.16755	1.1942	.00672	.38359	.22854

#1	.08805	.06050	.18033	162.81	13.444	17.643	.08853	122.82	6.9452
#2	.08819	.06128	.17989	160.92	13.412	17.347	.08852	123.49	6.9676

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.2851	.00118	6.0463	.16862	.13785	1.276	-.00362	.00658	11.115
Stddev	.0389	.00019	.0166	.00093	.00012	.000	.00105	.00246	.093
%RSD	.53417	16.034	.27427	.55271	.08455	.0284	29.072	37.417	.83742

#1	7.2576	.00105	6.0580	.16796	.13794	1.276	-.00437	.00484	11.181
#2	7.3126	.00132	6.0346	.16928	.13777	1.276	-.00288	.00832	11.049

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02046	.28684	.26859	.00451	.09056	.32109
Stddev	.00054	.00030	.00007	.00482	.00037	.00385
%RSD	2.6365	.10518	.02508	106.74	.40612	1.2003

#1	.02008	.28662	.26855	.00111	.09030	.31836
#2	.02084	.28705	.26864	.00792	.09082	.32381

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3786.7	6981.5	93006.	8417.1
Stddev	.1	8.9	75.	75.8
%RSD	.00221	.12728	.08093	.90075

#1	3786.7	6975.2	92953.	8363.5
#2	3786.6	6987.8	93059.	8470.7

Sample Name: 480-47885-B-5-A Acquired: 10/18/2013 12:30:35 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00073	15.455	.15118	.06289	.82069	.00102	241.49	.00105	.01482
Stddev	.00047	.018	.00187	.00021	.00109	.00016	.78	.00006	.00028
%RSD	63.568	.11777	1.2369	.33960	.13279	15.796	.32106	6.1319	1.9154

#1	.00106	15.442	.15250	.06304	.81992	.00113	240.94	.00110	.01502
#2	.00040	15.468	.14985	.06274	.82146	.00090	242.04	.00100	.01461

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03003	.10975	42.900	2.3507	3.0703	.02321	23.327	2.4690	2.4077
Stddev	.00037	.00007	.068	.0311	.0048	.00003	.065	.0043	.0063
%RSD	1.2233	.06778	.15799	1.3219	.15569	.12571	.27966	.17336	.26270

#1	.03029	.10970	42.852	2.3287	3.0669	.02319	23.373	2.4721	2.4121
#2	.02977	.10980	42.948	2.3727	3.0737	.02323	23.281	2.4660	2.4032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00713	6.6249	.03563	3.7267	F 36.68	-.00022	.00608	9.1923	.09472
Stddev	.00014	.0248	.00042	.0008	.07	.00099	.00088	.0360	.00083
%RSD	2.0335	.37432	1.1674	.02246	.1980	442.06	14.406	.39120	.87284

#1	.00723	6.6074	.03534	3.7261	36.73	-.00092	.00670	9.1668	.09414
#2	.00702	6.6424	.03593	3.7273	36.63	.00048	.00546	9.2177	.09531

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.45246	.42349	.00024	.05115	.99004
Stddev	.00017	.00066	.00268	.00014	.00492
%RSD	.03809	.15640	1102.7	.26552	.49742

#1	.45258	.42303	.00214	.05125	.99352
#2	.45233	.42396	-.00165	.05105	.98656

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4129.1	6981.9	93852.	8276.7
Stddev	4.9	4.4	411.	9.4
%RSD	.11921	.06349	.43752	.11414

#1	4125.7	6978.8	93562.	8270.0
#2	4132.6	6985.0	94143.	8283.4

Sample Name: 480-47885-B-6-A Acquired: 10/18/2013 12:32:58 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0080	47.536	.02898	.03153	.21304	.00278	10.348	.00055	.04770
Stddev	.00013	.090	.00102	.00065	.00040	.00001	.058	.00022	.00024
%RSD	16.681	.18924	3.5227	2.0607	.18590	.40078	.56344	40.097	.49464

#1	-0.0089	47.473	.02970	.03107	.21332	.00279	10.306	.00071	.04787
#2	-0.0070	47.600	.02826	.03199	.21276	.00277	10.389	.00040	.04754

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06132	.06349	102.13	4.9650	5.3886	.08142	14.033	1.3400	1.2516
Stddev	.00040	.00059	.49	.0754	.0127	.00040	.005	.0007	.0034
%RSD	.65779	.93276	.47682	1.5188	.23545	.48977	.03216	.05353	.26898

#1	.06103	.06391	101.79	4.9117	5.3975	.08170	14.030	1.3395	1.2492
#2	.06160	.06308	102.48	5.0184	5.3796	.08114	14.036	1.3405	1.2540

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00286	.90019	.10351	.07906	2.387	-.00309	.00455	9.7971	.03272
Stddev	.00019	.00038	.00016	.00115	.009	.00306	.00070	.0216	.00013
%RSD	6.5944	.04254	.15108	1.4577	.3803	99.004	15.458	.22031	.40452

#1	.00273	.90046	.10340	.07824	2.393	-.00525	.00405	9.7818	.03263
#2	.00300	.89992	.10362	.07987	2.381	-.00093	.00504	9.8123	.03282

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05416	.43905	-.00125	.07964	.29354
Stddev	.00001	.00121	.00277	.00024	.00150
%RSD	.00998	.27661	220.76	.30380	.51078

#1	.05416	.43819	-.00321	.07982	.29248
#2	.05416	.43991	.00070	.07947	.29460

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4469.7	7473.1	100230.	8565.2
Stddev	12.4	16.2	176.	12.6
%RSD	.27685	.21667	.17608	.14717

#1	4461.0	7461.7	100100.	8574.1
#2	4478.5	7484.6	100350.	8556.3

Sample Name: 480-47885-B-6-A SD@5 Acquired: 10/18/2013 12:35:15 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00044	10.128	.00633	.00688	.04584	.00055	2.2254	.00010	.00965
Stddev	.00057	.004	.00062	.00001	.00013	.00000	.0046	.00001	.00007
%RSD	129.60	.03773	9.8317	.21440	.27903	.64002	.20745	11.073	.75139

#1	-0.0004	10.131	.00589	.00689	.04593	.00055	2.2286	.00009	.00970
#2	-0.0085	10.125	.00677	.00687	.04575	.00055	2.2221	.00011	.00959

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01331	.01297	22.932	1.0483	1.0551	.01580	3.0845	.28874	.26327
Stddev	.00006	.00018	.041	.0046	.0046	.00006	.0069	.00043	.00144
%RSD	.48707	1.3627	.17706	.44169	.43359	.39149	.22396	.14806	.54548

#1	.01336	.01309	22.961	1.0516	1.0518	.01585	3.0796	.28904	.26429
#2	.01327	.01284	22.903	1.0451	1.0583	.01576	3.0894	.28844	.26226

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	.16999	.02111	.01692	.5032	-0.00020	.00170	2.2719	.00616
Stddev	.00006	.00374	.00031	.00058	.0012	.00070	.00007	.0076	.00008
%RSD	20.958	2.1994	1.4582	3.4282	.2437	346.03	3.8489	.33343	1.2312

#1	.00022	.17264	.02090	.01651	.5023	-0.0069	.00175	2.2665	.00621
#2	.00030	.16735	.02133	.01733	.5041	.00029	.00165	2.2772	.00610

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01146	.09544	.00099	.01709	.06415
Stddev	.00010	.00014	.00129	.00010	.00049
%RSD	.85186	.14741	131.08	.56653	.76381

#1	.01153	.09554	.00190	.01716	.06449
#2	.01139	.09535	.00007	.01703	.06380

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4763.9	7576.5	101600.	8582.6
Stddev	4.5	11.2	285.	16.3
%RSD	.09368	.14792	.28026	.18977

#1	4767.0	7584.5	101400.	8594.1
#2	4760.7	7568.6	101800.	8571.0

Sample Name: 480-47885-B-6-A PDS Acquired: 10/18/2013 12:37:36 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09195	66.583	.39762	.40973	.60099	.38341	28.183	.36971	.43021
Stddev	.00017	.013	.00004	.00160	.00078	.00110	.030	.00078	.00139
%RSD	.17962	.01883	.00881	.39129	.12912	.28582	.10650	.20977	.32419

#1	.09183	66.574	.39765	.41086	.60154	.38418	28.161	.37026	.43120
#2	.09206	66.592	.39760	.40859	.60044	.38263	28.204	.36916	.42922

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.42232	.42589	116.83	24.174	25.594	.48133	31.727	1.6499	1.5742
Stddev	.00233	.00122	.51	.015	.252	.00102	.013	.0000	.0021
%RSD	.55153	.28745	.43590	.06254	.98447	.21192	.04087	.00059	.12991

#1	.42396	.42502	116.47	24.185	25.772	.48205	31.736	1.6499	1.5757
#2	.42067	.42675	117.19	24.163	25.416	.48061	31.717	1.6499	1.5728

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 {57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.37471	19.824	.48305	.45638	2.348	.36879	.37106	29.469	.41393
Stddev	.00110	.047	.00024	.00105	.008	.00186	.00045	.077	.00403
%RSD	.29273	.23753	.05070	.23083	.3404	.50402	.11998	.26191	.97365

#1	.37549	19.857	.48323	.45712	2.342	.37011	.37074	29.523	.41678
#2	.37394	19.791	.48288	.45563	2.353	.36748	.37137	29.414	.41108

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.43658	.79160	.37832	.43932	.63133
Stddev	.00160	.00226	.00413	.00100	.00040
%RSD	.36672	.28552	1.0921	.22688	.06270

#1	.43545	.79000	.37539	.43862	.63105
#2	.43771	.79320	.38124	.44003	.63161

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4258.8	7326.9	97750.	8423.0
Stddev	11.9	21.6	95.	16.9
%RSD	.27853	.29494	.09728	.20106

#1	4250.4	7311.6	97683.	8411.1
#2	4267.1	7342.2	97817.	8435.0

Sample Name: 480-47885-B-6-B MS Acquired: 10/18/2013 12:39:59 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11575	94.502	.41249	.43894	.64917	.40192	29.693	.39027	.45405
Stddev	.00070	.371	.00029	.00128	.00178	.00056	.143	.00078	.00047
%RSD	.60733	.39220	.07060	.29083	.27467	.14001	.48055	.20086	.10280

#1	.11525	94.240	.41229	.43984	.64791	.40232	29.592	.39082	.45438
#2	.11625	94.764	.41270	.43804	.65043	.40152	29.794	.38971	.45372

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.45613	.44909	124.17	28.711	30.050	.50723	35.670	1.7013	1.6340
Stddev	.00493	.00333	1.06	.090	.005	.00133	.220	.0100	.0027
%RSD	1.0816	.74178	.85146	.31523	.01663	.26291	.61731	.58996	.16363

#1	.45264	.44674	123.43	28.647	30.047	.50628	35.515	1.6942	1.6321
#2	.45962	.45145	124.92	28.775	30.054	.50817	35.826	1.7084	1.6359

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 {57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.38992	19.790	.51501	.49798	F 22.22	.30989	.36139	30.251	.40402
Stddev	.00151	.079	.00042	.00123	.01	.00260	.00145	.003	.00014
%RSD	.38789	.40096	.08180	.24632	.0231	.83930	.39994	.00959	.03529

#1	.39099	19.734	.51471	.49885	22.22	.31173	.36241	30.249	.40392
#2	.38885	19.846	.51531	.49712	22.21	.30805	.36037	30.253	.40412

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47733	1.0954	.39891	.50044	.69759
Stddev	.00100	.0041	.00322	.00631	.01174
%RSD	.20960	.37043	.80643	1.2609	1.6834

#1	.47804	1.0925	.40118	.49598	.68928
#2	.47662	1.0983	.39664	.50491	.70589

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4230.5	7356.8	98176.	8511.4
Stddev	4.9	9.5	573.	15.0
%RSD	.11645	.12896	.58374	.17663

#1	4227.0	7350.1	98581.	8522.1
#2	4233.9	7363.5	97771.	8500.8

Sample Name: 480-47885-B-6-C MSD Acquired: 10/18/2013 12:42:19 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09427	90.389	.40671	.43183	.62685	.39079	28.862	.38552	.43713
Stddev	.00009	.217	.00250	.00043	.00199	.00047	.127	.00054	.00027
%RSD	.10009	.23986	.61542	.09940	.31755	.12149	.44163	.14082	.06112

#1	.09433	90.236	.40494	.43214	.62545	.39045	28.772	.38591	.43732
#2	.09420	90.543	.40848	.43153	.62826	.39113	28.952	.38514	.43694

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.45291	.44351	118.32	28.615	29.509	.49660	34.136	1.5740	1.5098
Stddev	.00016	.00065	.56	.052	.238	.00064	.073	.0021	.0010
%RSD	.03641	.14597	.47357	.18305	.80708	.12800	.21379	.13615	.06429

#1	.45302	.44305	117.93	28.578	29.677	.49615	34.084	1.5725	1.5091
#2	.45279	.44397	118.72	28.652	29.341	.49705	34.187	1.5755	1.5105

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 {57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.38254	19.758	.49259	.47277	F 21.38	.30108	.32667	30.433	.39942
Stddev	.00170	.127	.00077	.00095	.08	.00179	.00573	.047	.00050
%RSD	.44360	.64381	.15604	.20013	.3806	.59531	1.7527	.15346	.12540

#1	.38374	19.668	.49314	.47210	21.44	.30235	.32262	30.466	.39907
#2	.38134	19.848	.49205	.47344	21.32	.29982	.33072	30.400	.39978

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.45544	1.1291	.39236	.49844	.67651
Stddev	.00051	.0025	.00058	.00050	.00088
%RSD	.11251	.22015	.14659	.10023	.13081

#1	.45507	1.1274	.39277	.49879	.67588
#2	.45580	1.1309	.39195	.49808	.67713

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4246.8	7329.9	97288.	8429.0
Stddev	7.0	8.3	10.	12.9
%RSD	.16401	.11335	.01022	.15357

#1	4241.9	7324.0	97281.	8419.8
#2	4251.7	7335.7	97295.	8438.1

Sample Name: 480-47885-B-7-A Acquired: 10/18/2013 12:44:41 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00032	26.055	.07328	.13318	.20032	.00301	765.01	.00022	.05145
Stddev	.00001	.012	.00499	.00060	.00000	.00007	1.68	.00006	.00018
%RSD	4.2931	.04543	6.8122	.44876	.00187	2.3683	.21925	27.316	.34933

#1	-.00031	26.063	.06975	.13360	.20032	.00296	763.82	.00018	.05158
#2	-.00033	26.046	.07681	.13276	.20032	.00306	766.19	.00026	.05133

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03885	.15279	116.13	13.216	18.639	.05904	224.94	3.1272	3.2329
Stddev	.00034	.00079	.52	.013	.163	.00012	1.00	.0105	.0217
%RSD	.87373	.51459	.45072	.09462	.87302	.19741	.44248	.33585	.67176

#1	.03909	.15224	115.76	13.207	18.754	.05912	225.65	3.1347	3.2482
#2	.03861	.15335	116.50	13.225	18.524	.05896	224.24	3.1198	3.2175

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00117	4.5204	.08247	.06103	1.070	-.00358	.00435	10.221	.02791
Stddev	.00016	.0088	.00017	.00146	.004	.00136	.00230	.016	.00041
%RSD	13.615	.19546	.20295	2.3988	.3313	37.881	52.941	.15385	1.4846

#1	.00128	4.5267	.08259	.05999	1.068	-.00262	.00272	10.210	.02821
#2	.00105	4.5142	.08235	.06206	1.073	-.00454	.00598	10.232	.02762

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.58231	.16716	-.00041	.05146	.12302
Stddev	.00021	.00004	.00727	.00015	.00089
%RSD	.03582	.02339	1781.7	.28720	.72355

#1	.58216	.16714	-.00555	.05156	.12365
#2	.58245	.16719	.00473	.05135	.12239

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3613.9	6685.5	89011.	8161.5
Stddev	.8	8.7	421.	15.8
%RSD	.02347	.12945	.47308	.19396

#1	3614.5	6679.3	88713.	8172.7
#2	3613.3	6691.6	89308.	8150.3

Sample Name: 480-47885-B-8-A Acquired: 10/18/2013 12:47:10 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00096	53.516	.08705	.02826	.29713	.00365	9.1913	.00041	.06144
Stddev	.00017	.237	.00027	.00088	.00022	.00006	.0412	.00008	.00003
%RSD	17.470	.44345	.30728	3.1243	.07467	1.6112	.44823	19.423	.04927

#1	-.00084	53.349	.08724	.02888	.29698	.00369	9.1622	.00047	.06142
#2	-.00108	53.684	.08686	.02764	.29729	.00361	9.2204	.00036	.06147

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07285	.11073	151.08	4.8461	5.1826	.09016	16.571	1.5223	1.4376
Stddev	.00071	.00007	.60	.0322	.0855	.00182	.052	.0062	.0080
%RSD	.96999	.06268	.40037	.66497	1.6498	2.0208	.31239	.40536	.55515

#1	.07236	.11068	150.65	4.8233	5.1221	.08887	16.534	1.5180	1.4319
#2	.07335	.11078	151.51	4.8689	5.2430	.09144	16.607	1.5267	1.4432

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00472	2.3065	.14564	.12294	.7559	-.00520	.00289	7.9124	.02831
Stddev	.00000	.0079	.00016	.00069	.0046	.00001	.00202	.0414	.00017
%RSD	.06219	.34425	.11026	.56059	.6025	.13518	69.865	.52288	.58314

#1	.00472	2.3008	.14552	.12245	.7527	-.00519	.00146	7.8831	.02843
#2	.00472	2.3121	.14575	.12342	.7592	-.00520	.00431	7.9416	.02819

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04299	.48420	-.00009	.09465	.38289
Stddev	.00002	.00012	.00297	.00044	.00045
%RSD	.04225	.02402	3187.4	.46519	.11687

#1	.04300	.48411	.00201	.09434	.38258
#2	.04298	.48428	-.00219	.09496	.38321

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4399.0	7790.8	105070.	8998.5
Stddev	4.6	9.6	314.	12.3
%RSD	.10549	.12345	.29849	.13666

#1	4395.7	7784.0	105290.	9007.2
#2	4402.3	7797.6	104850.	8989.8

Sample Name: CCV Acquired: 10/18/2013 12:49:31 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48701	24.519	.49573	.47480	.49097	.49944	24.678	.49162	.49088	.48895	.47752	24.672
Stddev	.00145	.095	.00041	.00091	.00036	.00009	.022	.00033	.00106	.00385	.00090	.057
%RSD	.29850	.38752	.08202	.19135	.07328	.01759	.09099	.06631	.21625	.78792	.18890	.23110

#1	.48598	24.452	.49545	.47544	.49123	.49951	24.693	.49185	.49163	.49168	.47688	24.632
#2	.48803	24.586	.49602	.47415	.49072	.49938	24.662	.49139	.49013	.48623	.47815	24.713

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.505	26.736	.47845	24.313	.50605	.47336	.48481	23.823	.49651	.50028	25.59	.50874
Stddev	.019	.094	.00052	.117	.00167	.00099	.00118	.009	.00041	.00036	.03	.00185
%RSD	.07774	.35059	.10884	.48028	.32911	.20811	.24310	.03915	.08265	.07121	.1340	.36438

#1	24.519	26.670	.47882	24.396	.50722	.47406	.48397	23.816	.49680	.50053	25.61	.51005
#2	24.492	26.803	.47808	24.231	.50487	.47266	.48564	23.829	.49622	.50003	25.56	.50743

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48179	24.461	.48867	.49264	.48639	.50531	.47493	.49270
Stddev	.00152	.056	.00008	.00178	.00066	.00256	.00155	.00481
%RSD	.31610	.23040	.01651	.36085	.13612	.50756	.32562	.97652

#1	.48287	24.421	.48873	.49139	.48686	.50712	.47603	.49610
#2	.48072	24.501	.48861	.49390	.48592	.50350	.47384	.48929

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4531.1	7504.1	99318.	8525.6
Stddev	5.6	16.3	146.	12.0
%RSD	.12384	.21686	.14729	.14102
#1	4535.1	7515.6	99214.	8534.1
#2	4527.1	7492.6	99421.	8517.1

Sample Name: CCB Acquired: 10/18/2013 12:51:52 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00017	.03658	.00040	.00047	-0.00001	-0.00002	.00891	-0.00011	-0.00008	-0.00005	-0.00049	.00259
Stddev	.00050	.00892	.00237	.00061	.00001	.00006	.00049	.00000	.00001	.00015	.00008	.00034
%RSD	287.04	24.379	591.83	129.34	84.699	281.17	5.4535	3.7136	14.475	284.03	16.399	13.057

#1	-0.00052	.03027	.00207	.00090	-0.00000	-0.00007	.00857	-0.00011	-0.00009	.00005	-0.00043	.00235
#2	.00018	.04288	-.00127	.00004	-0.00001	.00002	.00925	-0.00012	-0.00007	-0.00016	-0.00054	.00283

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.04889	-0.00092	.00023	.00276	.00001	-0.00011	.00021	-0.02029	-0.00017	-0.00076	F .0038	-0.00078
Stddev	.05641	.00004	.00021	.00092	.00002	.00054	.00007	.00209	.00013	.00047	.0017	.00133
%RSD	115.38	4.8642	91.209	33.343	166.00	475.44	33.625	10.278	77.567	61.534	45.69	169.22

#1	-.08878	-.00089	.00038	.00342	.00003	-.00049	.00026	-.01882	-.00026	-.00043	.0026	.00015
#2	-.00900	-.00096	.00008	.00211	-.00000	.00027	.00016	-.02176	-.00008	-.00109	.0050	-.00172

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00120	.01755	-0.00057	.00004	.00019	.00157	-0.00014	.00007
Stddev	.00211	.01026	.00022	.00004	.00000	.00161	.00003	.00033
%RSD	176.00	58.456	37.590	84.648	2.4751	102.63	22.571	453.05

#1	-.00029	.01030	-.00072	.00002	.00019	.00043	-.00017	-.00016
#2	.00269	.02481	-.00042	.00007	.00019	.00271	-.00012	.00030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4845.0	7511.1	101180.	8411.4
Stddev	5.0	6.6	233.	2.3
%RSD	.10239	.08744	.23047	.02785
#1	4848.5	7515.7	101020.	8409.7
#2	4841.5	7506.4	101350.	8413.0

Sample Name: CCVL Acquired: 10/18/2013 12:54:18 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00250	.22984	.01158	.02036	.00206	.00202	.50687	.00094	.00392	.00393	.00927	.05282
Stddev	.00007	.03199	.00012	.00027	.00001	.00003	.00043	.00007	.00002	.00025	.00016	.00116
%RSD	2.7224	13.917	1.0407	1.3057	.52015	1.5472	.08472	7.0827	.60698	6.2602	1.7603	2.1947

#1	.00254	.25245	.01149	.02017	.00205	.00200	.50656	.00098	.00394	.00376	.00939	.05200
#2	.00245	.20722	.01166	.02054	.00206	.00205	.50717	.00089	.00390	.00411	.00916	.05364

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50324	.43414	F .00109	.20301	.00336	.00284	.01037	.90463	.00956	.00443	F .0012	.02062
Stddev	.04539	.00234	.00071	.00083	.00002	.00011	.00037	.00912	.00010	.00040	.0024	.00077
%RSD	9.0193	.53856	64.955	.41031	.57864	3.7347	3.5391	1.0085	.99549	8.9240	198.2	3.7283

#1	.47114	.43248	.00159	.20360	.00335	.00277	.01063	.91108	.00962	.00415	.0029	.02117
#2	.53533	.43579	.00059	.20242	.00337	.00292	.01011	.89818	.00949	.00471	-.0005	.02008

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01446	.51036	.00921	.00500	.00482	.02005	.00475	.01019
Stddev	.00257	.02854	.00007	.00003	.00009	.00143	.00012	.00026
%RSD	17.794	5.5914	.76607	.58710	1.9520	7.1162	2.5904	2.5760

#1	.01628	.49018	.00926	.00497	.00488	.01904	.00483	.01037
#2	.01264	.53054	.00916	.00502	.00475	.02106	.00466	.01000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4845.0	7527.8	101490.	8479.9
Stddev	1.2	.7	8.	47.8
%RSD	.02379	.00959	.00763	.56372
#1	4845.8	7528.3	101480.	8513.7
#2	4844.2	7527.3	101490.	8446.1

Sample Name: 480-47885-B-9-A Acquired: 10/18/2013 12:56:43 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00075	48.794	.05412	.01315	.14997	.00254	8.5802	.00054	.05508
Stddev	.00000	.469	.00146	.00030	.00036	.00000	.1169	.00001	.00013
%RSD	.47318	.96136	2.6935	2.2980	.23917	.06302	1.3622	1.6536	.23970

#1	-0.00074	48.462	.05309	.01293	.15022	.00254	8.4975	.00054	.05499
#2	-0.00075	49.126	.05515	.01336	.14972	.00254	8.6628	.00055	.05517

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06827	.09319	121.84	3.3223	3.5794	.10341	18.674	1.3849	1.3016
Stddev	.00004	.00024	1.58	.0591	.0189	.00147	.034	.0029	.0104
%RSD	.06451	.25494	1.3008	1.7797	.52839	1.4227	.18452	.20700	.79634

#1	.06830	.09336	120.72	3.2805	3.5661	.10237	18.699	1.3869	1.3089
#2	.06824	.09303	122.96	3.3642	3.5928	.10445	18.650	1.3829	1.2943

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00444	2.7696	.12421	.07681	F 27.62	-.00366	.00353	10.395	.04234
Stddev	.00024	.0156	.00035	.00004	.03	.00144	.00329	.126	.00074
%RSD	5.3439	.56414	.27943	.04885	.1068	39.397	93.267	1.2077	1.7530

#1	.00427	2.7585	.12396	.07684	27.60	-.00264	.00585	10.306	.04286
#2	.00460	2.7806	.12445	.07678	27.65	-.00468	.00120	10.484	.04181

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.03494	.46126	-.00069	.07956	.33349
Stddev	.00013	.00145	.00284	.00035	.00021
%RSD	.36662	.31377	411.05	.43470	.06367

#1	.03503	.46229	.00132	.07980	.33364
#2	.03485	.46024	-.00270	.07932	.33334

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4414.2	7379.6	98484.	8439.2
Stddev	19.8	32.9	469.	68.5
%RSD	.44912	.44630	.47616	.81169

#1	4400.2	7356.3	98152.	8487.7
#2	4428.3	7402.8	98815.	8390.8

Sample Name: 480-47885-B-10-A Acquired: 10/18/2013 12:58:59 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0013	30.574	.10455	.13998	.28798	.00305	930.72	.00039	.09243
Stddev	.00022	.076	.00151	.00060	.00063	.00013	4.82	.00002	.00006
%RSD	166.06	.24992	1.4416	.42718	.21824	4.4160	.51782	5.9293	.06114

#1	-0.0029	30.520	.10349	.14040	.28753	.00295	934.13	.00037	.09239
#2	.00002	30.628	.10562	.13955	.28842	.00314	927.31	.00040	.09247

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04628	.06129	83.145	15.790	22.528	.07305	115.51	2.8845	2.9937
Stddev	.00082	.00003	.339	.093	.202	.00010	.28	.0084	.0197
%RSD	1.7824	.04880	.40752	.58984	.89874	.13868	.24183	.29031	.65762

#1	.04569	.06127	82.905	15.724	22.671	.07298	115.32	2.8786	2.9798
#2	.04686	.06131	83.384	15.856	22.385	.07312	115.71	2.8904	3.0077

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00296	3.8677	.11955	.11898	F 14.52	-0.00052	.00399	17.160	.04387
Stddev	.00016	.0115	.00054	.00124	.02	.00009	.00521	.149	.00083
%RSD	5.2469	.29774	.45213	1.0380	.1511	17.706	130.56	.86834	1.8822

#1	.00285	3.8595	.11993	.11986	14.51	-0.00059	.00031	17.054	.04329
#2	.00307	3.8758	.11916	.11811	14.54	-0.00046	.00768	17.265	.04446

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2499	.23464	-0.00317	.05515	1.0066
Stddev	.0011	.00056	.00030	.00045	.0031
%RSD	.09039	.23858	9.3288	.81233	.30641

#1	1.2491	.23425	-0.00338	.05483	1.0044
#2	1.2507	.23504	-0.00296	.05547	1.0088

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3576.3	6889.3	92202.	8402.8
Stddev	4.8	21.5	76.	27.8
%RSD	.13518	.31156	.08219	.33037

#1	3572.9	6874.1	92256.	8383.1
#2	3579.8	6904.5	92148.	8422.4

Sample Name: 480-47885-B-11-A Acquired: 10/18/2013 13:01:26 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00098	47.497	.04946	.02355	.18912	.00263	19.775	.00030	.05156
Stddev	.00059	.024	.00232	.00006	.00049	.00008	.004	.00002	.00041
%RSD	60.848	.05070	4.6822	.23810	.25732	3.1741	.02176	6.2450	.78957

#1	-.00140	47.480	.04782	.02358	.18878	.00269	19.778	.00031	.05128
#2	-.00056	47.514	.05110	.02351	.18946	.00258	19.772	.00029	.05185

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06599	.08766	120.14	5.5058	5.7960	.09379	16.713	1.1760	1.0971
Stddev	.00001	.00028	.24	.0068	.1208	.00034	.064	.0014	.0008
%RSD	.01250	.31694	.20022	.12368	2.0833	.36219	.38201	.12141	.07682

#1	.06599	.08786	119.97	5.5010	5.8814	.09355	16.758	1.1770	1.0965
#2	.06598	.08747	120.31	5.5106	5.7107	.09403	16.668	1.1750	1.0977

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00284	1.6614	.12157	.06996	.5806	-.00405	.00204	11.653	.03971
Stddev	.00012	.0013	.00029	.00192	.0071	.00232	.00442	.026	.00009
%RSD	4.2111	.08047	.23750	2.7422	1.230	57.321	217.12	.22586	.23602

#1	.00292	1.6604	.12136	.07132	.5857	-.00241	-.00109	11.635	.03978
#2	.00275	1.6623	.12177	.06861	.5756	-.00569	.00516	11.672	.03965

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09724	.44745	-.00112	.09117	.32500
Stddev	.00100	.00158	.00170	.00018	.00229
%RSD	1.0271	.35280	151.51	.19676	.70463

#1	.09794	.44634	.00008	.09130	.32662
#2	.09653	.44857	-.00233	.09104	.32339

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4425.8	7478.3	100690.	8534.0
Stddev	8.2	7.5	318.	38.9
%RSD	.18589	.10003	.31566	.45634

#1	4431.6	7473.0	100460.	8506.4
#2	4419.9	7483.6	100910.	8561.5

Sample Name: 480-47885-B-12-A Acquired: 10/18/2013 13:03:48 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0074	46.353	.03847	.02379	.20075	.00253	13.202	.00034	.04934
Stddev	.00035	.113	.00002	.00039	.00003	.00002	.012	.00002	.00005
%RSD	47.446	.24394	.04740	1.6515	.01596	.77829	.09274	7.2543	.10421

#1	-0.00099	46.433	.03848	.02406	.20072	.00254	13.210	.00036	.04937
#2	-0.00049	46.273	.03846	.02351	.20077	.00251	13.193	.00033	.04930

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06648	.08558	107.94	5.7497	6.1538	.10227	16.769	.98206	.90753
Stddev	.00010	.00023	.25	.0258	.0338	.00069	.022	.00129	.00003
%RSD	.15503	.27459	.22931	.44925	.54858	.67089	.13365	.13110	.00352

#1	.06656	.08541	108.11	5.7680	6.1299	.10275	16.754	.98115	.90755
#2	.06641	.08575	107.76	5.7315	6.1777	.10178	16.785	.98297	.90751

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00245	.69595	.12681	.06747	.3363	-.00307	.00713	10.400	.04042
Stddev	.00009	.00361	.00003	.00031	.0015	.00006	.00149	.061	.00002
%RSD	3.5354	.51810	.02529	.45652	.4427	1.9897	20.884	.58509	.05253

#1	.00251	.69340	.12679	.06725	.3353	-.00312	.00608	10.443	.04043
#2	.00239	.69850	.12683	.06769	.3374	-.00303	.00818	10.357	.04040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05932	.48797	-.00206	.08250	.37255
Stddev	.00029	.00013	.00310	.00029	.00067
%RSD	.48532	.02649	150.81	.34582	.18079

#1	.05912	.48788	.00014	.08229	.37207
#2	.05952	.48806	-.00425	.08270	.37303

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4441.7	7502.0	101090.	8502.7
Stddev	11.2	14.6	159.	7.7
%RSD	.25138	.19507	.15724	.09102

#1	4433.8	7491.7	100970.	8497.2
#2	4449.5	7512.3	101200.	8508.2

Sample Name: 480-47684-D-1-A Acquired: 10/18/2013 13:06:11 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00115	106.01	.03079	.02692	.61446	.00509	18.569	.00166	.05572
Stddev	.00031	.79	.00007	.00032	.00161	.00007	.119	.00002	.00025
%RSD	26.971	.74366	.21887	1.1959	.26264	1.3115	.64019	1.2095	.44140

#1	-.00093	105.45	.03074	.02669	.61332	.00513	18.485	.00164	.05555
#2	-.00137	106.56	.03084	.02715	.61560	.00504	18.653	.00167	.05589

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11904	.08797	144.77	8.4923	9.6000	.13051	22.323	2.6294	2.4947
Stddev	.00006	.00041	1.62	.0679	.0312	.00114	.058	.0048	.0062
%RSD	.05248	.46262	1.1206	.79927	.32444	.87233	.25920	.18338	.24730

#1	.11908	.08826	143.62	8.4443	9.5779	.12970	22.282	2.6260	2.4991
#2	.11900	.08769	145.92	8.5403	9.6220	.13131	22.364	2.6328	2.4904

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00428	.29353	.13971	.14443	2.336	-.00551	.00681	11.657	.02138
Stddev	.00044	.00284	.00012	.00015	.016	.00127	.00003	.032	.00023
%RSD	10.223	.96739	.08409	.10340	.7002	23.013	.40429	.27188	1.0610

#1	.00397	.29152	.13963	.14433	2.324	-.00462	.00679	11.634	.02122
#2	.00459	.29554	.13979	.14454	2.347	-.00641	.00683	11.679	.02154

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.16994	1.3030	-.00149	.17747	.45604
Stddev	.00014	.0057	.00083	.00088	.00154
%RSD	.08412	.43453	55.571	.49755	.33794

#1	.17004	1.3070	-.00208	.17809	.45713
#2	.16984	1.2990	-.00091	.17684	.45495

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4373.2	7481.3	99985.	8495.4
Stddev	4.9	16.0	326.	24.3
%RSD	.11111	.21354	.32567	.28590

#1	4376.6	7492.6	99754.	8512.5
#2	4369.8	7470.0	100210.	8478.2

Sample Name: MB 480-143793/1-A Acquired: 10/18/2013 13:08:39 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	.02806	.00243	.00399	.00006	-.00006	.04993	-.00014	-.00006
Stddev	.00065	.01688	.00050	.00010	.00001	.00001	.00052	.00002	.00005
%RSD	1276.0	60.155	20.533	2.4998	19.314	23.588	1.0378	10.952	76.386

#1	-.00041	.04000	.00208	.00406	.00007	-.00007	.05029	-.00013	-.00003
#2	.00051	.01612	.00279	.00392	.00006	-.00005	.04956	-.00015	-.00010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00017	-.00057	.00103	.01000	.00090	-.00079	.00320	.00023	.00058
Stddev	.00017	.00016	.00131	.02420	.00029	.00002	.00029	.00008	.00028
%RSD	101.76	28.732	126.40	241.97	32.233	2.8509	8.9623	37.558	48.968

#1	-.00005	-.00045	.00196	-.00711	.00069	-.00077	.00340	.00029	.00078
#2	-.00029	-.00069	.00011	.02712	.00110	-.00080	.00299	.00017	.00038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00012	-.01270	-.00025	.00087	.0044	-.00135	.00118	.01132	.00032
Stddev	.00001	.00010	.00010	.00123	.0013	.00140	.00365	.01005	.00027
%RSD	9.8125	.76262	38.813	140.88	29.79	103.64	309.94	88.795	84.267

#1	-.00011	-.01263	-.00018	.00000	.0053	-.00234	-.00140	.00421	.00013
#2	-.00013	-.01277	-.00032	.00174	.0035	-.00036	.00376	.01843	.00051

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00028	.00047	-.00110	.00002	.00116
Stddev	.00008	.00010	.00039	.00006	.00015
%RSD	27.187	21.293	35.342	310.71	12.803

#1	.00033	.00054	-.00083	.00006	.00106
#2	.00023	.00040	-.00138	-.00002	.00127

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4905.7	7609.5	103560.	8594.9
Stddev	12.4	18.0	72.	26.2
%RSD	.25222	.23707	.06962	.30482

#1	4914.4	7622.2	103510.	8576.3
#2	4896.9	7596.7	103610.	8613.4

Sample Name: LCS 480-143793/2-A Acquired: 10/18/2013 13:11:04 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04906	10.189	.20354	.20151	.20215	.21016	9.9323	.20491	.20179
Stddev	.00066	.002	.00071	.00092	.00068	.00050	.0117	.00048	.00002
%RSD	1.3459	.02445	.34826	.45714	.33623	.23654	.11739	.23275	.01066

#1	.04953	10.187	.20304	.20086	.20263	.21052	9.9241	.20457	.20181
#2	.04859	10.191	.20405	.20216	.20167	.20981	9.9406	.20524	.20177

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19848	.19730	10.278	9.5175	10.581	.19392	10.235	.20495	.18734
Stddev	.00060	.00050	.007	.0514	.062	.00045	.015	.00047	.00071
%RSD	.30245	.25128	.06342	.53979	.58896	.23117	.14911	.22753	.37689

#1	.19891	.19765	10.274	9.4812	10.537	.19424	10.246	.20528	.18784
#2	.19806	.19695	10.283	9.5539	10.625	.19361	10.225	.20462	.18684

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20633	9.5150	.20238	.20823	F .0023	.20737	.20254	F -.00338	.19221
Stddev	.00055	.0266	.00021	.00037	.0019	.00260	.00225	.00573	.00063
%RSD	.26579	.27998	.10241	.17929	83.06	1.2562	1.1098	169.50	.32646

#1	.20594	9.4962	.20223	.20850	.0010	.20921	.20413	.00067	.19177
#2	.20672	9.5338	.20252	.20797	.0037	.20553	.20095	-.00744	.19265

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					11.50			11.500	
Low Limit					8.500			8.5000	

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20494	.19206	.20861	.19619	.19343
Stddev	.00046	.00032	.00182	.00054	.00049
%RSD	.22608	.16743	.87338	.27618	.25348

#1	.20461	.19229	.20990	.19657	.19308
#2	.20527	.19184	.20732	.19581	.19378

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4646.3	7446.0	101220.	8545.4
Stddev	4.0	5.7	88.	22.3
%RSD	.08639	.07668	.08743	.26056

#1	4649.1	7450.0	101150.	8561.1
#2	4643.4	7441.9	101280.	8529.6

Sample Name: 480-47504-A-1-A Acquired: 10/18/2013 13:13:25 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00054	.04964	F -0.01067	.07201	.05283	-0.00009	95.840	.00027	-0.00014
Stddev	.00015	.02009	.00156	.00013	.00010	.00008	.135	.00005	.00008
%RSD	28.609	40.472	14.659	.18219	.19004	94.637	.14085	18.850	55.222

#1	-0.00043	.03543	-.01177	.07191	.05290	-0.00014	95.935	.00024	-.00020
#2	-.00065	.06384	-.00956	.07210	.05276	-0.00003	95.744	.00031	-.00009

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			30.000						
Low Limit			-.01000						

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.35329	.00581	.00803	.87392	1.1611	.00169	19.490	.59888	.56120
Stddev	.00117	.00009	.00291	.00783	.00050	.00075	.023	.00161	.00237
%RSD	.33196	1.5412	36.262	.89571	.43419	44.472	.11834	.26845	.42236

#1	.35246	.00588	.01009	.86839	1.1576	.00116	19.473	.59774	.56288
#2	.35412	.00575	.00597	.87946	1.1647	.00222	19.506	.60001	.55953

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00073	15.325	.00076	-.00156	F 13.08	-.00124	.00207	5.4630	-.00027
Stddev	.00004	.016	.00027	.00047	.01	.00073	.00193	.0050	.00028
%RSD	5.6072	.10631	35.427	30.148	.0869	58.912	93.297	.09070	102.65

#1	.00070	15.337	.00095	-.00190	13.08	-.00072	.00070	5.4665	-.00007
#2	.00076	15.314	.00057	-.00123	13.07	-.00176	.00343	5.4595	-.00047

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.15660	.00064	.00037	-.00002	.00445
Stddev	.00020	.00004	.00212	.00017	.00003
%RSD	.12975	6.9057	568.56	729.26	.66250

#1	.15675	.00067	-.00112	-.00014	.00443
#2	.15646	.00061	.00187	.00009	.00447

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4453.2	7161.3	97618.	8471.3
Stddev	5.6	6.0	113.	6.6
%RSD	.12621	.08386	.11553	.07821

#1	4457.2	7157.0	97538.	8476.0
#2	4449.3	7165.5	97697.	8466.6

Sample Name: MB 480-144804/1-B Acquired: 10/18/2013 13:15:45 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00048	.04947	.00360	.00316	.00044	-0.00008	.05990	-0.00006	-0.00000
Stddev	.00009	.00551	.00225	.00025	.00002	.00003	.00041	.00007	.00009
%RSD	18.614	11.134	62.301	7.8490	5.0880	35.599	.69050	110.65	1825.3

#1	-0.00041	.04558	.00202	.00298	.00046	-0.00010	.05961	-0.00011	.00006
#2	-0.00054	.05337	.00519	.00333	.00043	-0.00006	.06019	-0.00001	-0.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00106	-0.00059	.00862	-0.04290	.00211	-0.00071	.00780	.00024	-0.00010
Stddev	.00009	.00002	.00440	.03341	.00053	.00041	.00077	.00007	.00041
%RSD	8.8031	3.8213	51.113	77.890	25.215	57.215	9.8426	30.320	405.70

#1	.00100	-0.00057	.01173	-0.06653	.00249	-0.00100	.00834	.00029	.00019
#2	.00113	-0.00061	.00550	-0.01927	.00174	-0.00042	.00725	.00019	-0.00039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00004	.04102	-0.00016	-0.00073	.0225	.00095	.00124	.01100	-0.00025
Stddev	.00014	.01120	.00005	.00004	.0069	.00005	.00153	.01558	.00011
%RSD	374.01	27.307	34.038	5.6683	30.42	5.3578	123.56	141.73	43.781

#1	.00006	.04894	-0.00012	-0.00076	.0274	.00092	.00016	.02202	-0.00032
#2	-0.00013	.03310	-0.00020	-0.00070	.0177	.00099	.00232	-0.00002	-0.00017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00023	.00012	.00102	.00022	.00274
Stddev	.00018	.00014	.00016	.00023	.00021
%RSD	76.646	122.09	15.776	107.24	7.5804

#1	.00011	.00022	.00090	.00005	.00259
#2	.00036	.00002	.00113	.00038	.00289

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4877.0	7549.4	103000.	8514.9
Stddev	.1	7.8	556.	33.3
%RSD	.00261	.10323	.54011	.39129

#1	4876.9	7554.9	102610.	8538.4
#2	4877.1	7543.9	103390.	8491.3

Sample Name: CCV Acquired: 10/18/2013 13:18:11 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48505	24.474	.50154	.47768	.49350	.50098	24.335	.49173	.48803	.48374	.47730	24.518
Stddev	.00107	.030	.00180	.00087	.00018	.00156	.025	.00071	.00176	.00353	.00043	.106
%RSD	.22096	.12147	.35929	.18240	.03690	.31149	.10090	.14478	.36004	.72927	.08908	.43166

#1	.48429	24.495	.50026	.47706	.49363	.50208	24.353	.49224	.48927	.48124	.47700	24.593
#2	.48581	24.453	.50281	.47829	.49338	.49988	24.318	.49123	.48679	.48623	.47760	24.443

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.456	26.951	.48656	23.995	.50086	.46901	.48538	23.974	.49458	.49692	25.71	.51191
Stddev	.004	.125	.00032	.039	.00188	.00379	.00002	.071	.00164	.00009	.06	.00162
%RSD	.01663	.46302	.06616	.16355	.37436	.80902	.00413	.29619	.33243	.01714	.2241	.31654

#1	24.453	27.039	.48679	23.968	.49954	.46632	.48536	23.924	.49574	.49698	25.67	.51076
#2	24.459	26.863	.48633	24.023	.50219	.47169	.48539	24.024	.49341	.49686	25.75	.51305

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48685	24.269	.48529	.49612	.48390	.50624	.47035	.47929
Stddev	.00602	.080	.00049	.00038	.00164	.00101	.00291	.00458
%RSD	1.2365	.33057	.10152	.07756	.33949	.20038	.61938	.95455

#1	.48259	24.212	.48564	.49639	.48274	.50696	.46829	.47605
#2	.49110	24.326	.48494	.49585	.48507	.50553	.47241	.48252

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4490.1	7403.9	98491.	8450.1
Stddev	1.1	6.6	420.	24.0
%RSD	.02552	.08970	.42659	.28375
#1	4489.3	7408.6	98788.	8433.1
#2	4490.9	7399.2	98194.	8467.0

Sample Name: CCB Acquired: 10/18/2013 13:20:33 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00010	.02108	.00221	.00041	-0.00000	.00004	.00457	-0.00001	-0.00009	.00000	-0.00046	-0.00324
Stddev	.00007	.02828	.00046	.00006	.00000	.00006	.00244	.00006	.00010	.00023	.00015	.00255
%RSD	67.174	134.17	20.610	15.638	203.51	145.95	53.455	481.75	108.12	6686.7	32.464	78.674

#1	-0.00005	.04108	.00253	.00036	-0.00000	-0.00000	.00284	-0.00005	-0.00016	-0.00016	-0.00035	-0.00505
#2	-0.00014	.00108	.00189	.00045	.00000	.00008	.00630	.00003	-0.00002	.00017	-0.00056	-0.00144

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.03531	-0.00140	-0.00099	.00045	.00001	-0.00032	.00016	-0.01764	-0.00018	.00045	F .0031	-0.00094
Stddev	.05891	.00060	.00220	.00326	.00001	.00019	.00011	.00100	.00032	.00068	.0011	.00087
%RSD	166.82	42.776	221.35	725.36	80.579	58.982	65.570	5.6959	171.65	151.53	36.53	93.084

#1	-.07697	-.00182	-.00255	.00275	.00001	-.00045	.00009	-.01835	.00004	.00093	.0023	-.00156
#2	.00634	-.00098	.00056	-.00185	.00000	-.00019	.00024	-.01693	-.00041	-.00003	.0039	-.00032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00262	.00440	-0.00020	-0.00010	.00008	.00100	-0.00001	.00037
Stddev	.00046	.01356	.00007	.00007	.00002	.00035	.00010	.00013
%RSD	17.742	307.95	34.989	69.741	18.742	35.407	1787.1	36.053

#1	.00295	.01399	-.00025	-.00015	.00009	.00124	-.00008	.00028
#2	.00229	-.00518	-.00015	-.00005	.00007	.00075	.00007	.00047

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4836.5	7482.5	100760.	8391.3
Stddev	8.4	13.2	62.	22.1
%RSD	.17356	.17702	.06196	.26301
#1	4830.6	7473.1	100710.	8406.9
#2	4842.4	7491.9	100800.	8375.6

Sample Name: CCVL Acquired: 10/18/2013 13:22:59 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00242	.21510	.01153	.01991	.00202	.00207	.50068	.00089	.00384	.00371	.00905	.05015
Stddev	.00006	.00465	.00130	.00017	.00000	.00002	.00547	.00001	.00005	.00030	.00013	.00362
%RSD	2.2935	2.1624	11.312	.84425	.01370	.75296	1.0931	.64168	1.2618	7.9916	1.3911	7.2249

#1	.00238	.21839	.01245	.01980	.00202	.00208	.50455	.00088	.00388	.00350	.00914	.04759
#2	.00246	.21182	.01061	.02003	.00202	.00206	.49681	.00089	.00381	.00392	.00896	.05271

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.41703	.43570	F .00197	.20162	.00330	.00279	.01037	.87683	.00980	.00417	F .0008	.02150
Stddev	.08916	.00046	.00064	.00190	.00002	.00006	.00015	.00034	.00038	.00131	.0002	.00084
%RSD	21.379	.10548	32.629	.94396	.59737	2.2353	1.4738	.03828	3.8382	31.270	22.90	3.8892

#1	.35398	.43602	.00152	.20297	.00331	.00283	.01027	.87707	.01007	.00325	.0009	.02091
#2	.48007	.43538	.00242	.20028	.00328	.00275	.01048	.87659	.00953	.00510	.0006	.02209

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01319	.48459	.00922	.00498	.00473	.02054	.00463	.00971
Stddev	.00102	.02692	.00021	.00018	.00004	.00233	.00007	.00013
%RSD	7.7317	5.5559	2.2854	3.5146	.81461	11.322	1.5306	1.3239

#1	.01247	.46556	.00907	.00511	.00475	.02218	.00468	.00962
#2	.01391	.50363	.00936	.00486	.00470	.01889	.00458	.00980

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4827.5	7509.0	102290.	8438.9
Stddev	4.8	.9	376.	2.8
%RSD	.09879	.01165	.36769	.03285
#1	4830.8	7509.6	102030.	8440.8
#2	4824.1	7508.4	102560.	8436.9

Sample Name: LCS 480-144804/2-B Acquired: 10/18/2013 13:25:23 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04817	10.070	.20338	.19897	.20059	.21003	9.8406	.20429	.20121
Stddev	.00066	.052	.00127	.00034	.00025	.00033	.0476	.00039	.00000
%RSD	1.3734	.52022	.62560	.16939	.12239	.15816	.48382	.18969	.00019

#1	.04864	10.107	.20428	.19921	.20077	.20980	9.8742	.20456	.20122
#2	.04771	10.033	.20248	.19873	.20042	.21027	9.8069	.20402	.20121

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19977	.19639	10.308	9.4911	10.489	.19459	10.208	.20598	.18915
Stddev	.00029	.00027	.036	.0641	.033	.00184	.018	.00001	.00004
%RSD	.14612	.13698	.35411	.67537	.31084	.94484	.17719	.00358	.02002

#1	.19998	.19658	10.282	9.5364	10.466	.19589	10.196	.20598	.18918
#2	.19956	.19620	10.333	9.4458	10.512	.19329	10.221	.20599	.18912

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20644	9.5220	.20269	.20221	10.60	.20797	.20225	9.5555	.19261
Stddev	.00011	.0205	.00070	.00201	.00	.00124	.00664	.0091	.00060
%RSD	.05300	.21496	.34653	.99379	.0076	.59656	3.2842	.09535	.31217

#1	.20651	9.5365	.20319	.20079	10.60	.20885	.20695	9.5620	.19219
#2	.20636	9.5076	.20219	.20364	10.60	.20709	.19756	9.5491	.19304

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20325	.19281	.20899	.19599	.19567
Stddev	.00008	.00031	.00183	.00014	.00244
%RSD	.03975	.15828	.87450	.07105	1.2454

#1	.20320	.19260	.20770	.19589	.19395
#2	.20331	.19303	.21028	.19609	.19739

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4652.1	7440.6	101020.	8566.6
Stddev	8.2	.1	192.	20.1
%RSD	.17677	.00147	.19023	.23514

#1	4657.9	7440.7	101160.	8552.4
#2	4646.2	7440.5	100890.	8580.9

Sample Name: 480-47856-P-1-B Acquired: 10/18/2013 13:27:42 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00015	.06851	.00321	.00246	.64256	-0.00000	56.333	-0.00012	-0.00013
Stddev	.00002	.03360	.00251	.00005	.00219	.00002	.206	.00003	.00009
%RSD	10.369	49.038	78.080	2.1001	.34105	692.88	.36495	21.448	66.302

#1	-0.00016	.04475	.00499	.00243	.64411	.00001	56.478	-0.00010	-0.00007
#2	-0.00014	.09227	.00144	.00250	.64101	-0.00002	56.187	-0.00014	-0.00019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00148	.01254	-0.00441	5.2506	6.5681	.12771	.00342	-0.00014	-0.00025
Stddev	.00031	.00067	.00067	.0679	.1141	.00065	.00285	.00004	.00122
%RSD	20.689	5.3542	15.244	1.2930	1.7374	.50807	83.525	27.624	495.86

#1	.00126	.01301	-0.00488	5.2986	6.6488	.12817	.00544	-0.00011	-0.00111
#2	.00169	.01206	-0.00393	5.2026	6.4874	.12726	.00140	-0.00016	.00062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00203	36.305	.00185	.00096	.1942	-0.00046	-0.00040	.03759	.00045
Stddev	.00002	.185	.00000	.00036	.0027	.00151	.00021	.00139	.00038
%RSD	1.2213	.50870	.09858	37.697	1.400	329.79	53.458	3.6929	83.755

#1	.00205	36.436	.00186	.00122	.1923	-0.00153	-0.00055	.03661	.00072
#2	.00202	36.175	.00185	.00071	.1962	.00061	-0.00025	.03858	.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.7498	.00043	-0.00015	.00020	.00247
Stddev	.0080	.00004	.00225	.00008	.00011
%RSD	.28920	9.8818	1545.6	38.929	4.5383

#1	2.7554	.00040	.00144	.00015	.00255
#2	2.7442	.00046	-0.00174	.00026	.00239

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4468.1	7165.7	97258.	8581.0
Stddev	6.9	2.4	219.	25.9
%RSD	.15397	.03376	.22485	.30159

#1	4463.2	7167.4	97103.	8562.7
#2	4472.9	7164.0	97412.	8599.3

Sample Name: 480-47854-P-1-B Acquired: 10/18/2013 13:30:16 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00036	.07958	.00088	.00729	1.1399	-0.00005	19.505	-0.00009	-0.00015
Stddev	.00009	.01918	.00023	.00011	.0050	.00009	.072	.00003	.00002
%RSD	25.936	24.106	26.165	1.4845	.43753	175.80	.36673	35.536	9.8264

#1	-0.00029	.09314	.00071	.00721	1.1434	.00001	19.556	-0.00007	-0.00014
#2	-0.00042	.06601	.00104	.00736	1.1364	-0.00012	19.455	-0.00012	-0.00016

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00306	.00061	9.1070	1.4120	1.7831	.01442	1.2164	.50850	.46498
Stddev	.00039	.00007	.00081	.0061	.0049	.00058	.0042	.00125	.00116
%RSD	12.665	12.030	.08916	.42986	.27259	4.0475	.34241	.24540	.24891

#1	.00333	.00066	9.1128	1.4163	1.7796	.01483	1.2194	.50938	.46580
#2	.00278	.00056	9.1013	1.4077	1.7865	.01401	1.2135	.50762	.46416

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	21.028	.00146	.00094	.7321	.00068	-.00033	.69332	-.00036
Stddev	.00032	.138	.00033	.00180	.0011	.00039	.00123	.00694	.00083
%RSD	655.14	.65802	22.764	192.21	.1566	58.012	369.49	1.0004	231.07

#1	.00027	21.126	.00123	.00221	.7313	.00096	-.00121	.69822	-.00095
#2	-0.00018	20.931	.00170	-0.00034	.7329	.00040	.00054	.68841	.00023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.1803	.00077	.00074	.00032	.00919
Stddev	.0010	.00012	.00132	.00001	.00037
%RSD	.08471	15.912	178.11	3.8454	4.0151

#1	1.1796	.00086	-.00019	.00032	.00945
#2	1.1810	.00069	.00167	.00031	.00893

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4673.5	7400.9	99413.	8439.6
Stddev	3.9	13.5	86.	16.7
%RSD	.08313	.18238	.08611	.19795

#1	4676.2	7410.4	99353.	8427.7
#2	4670.7	7391.3	99474.	8451.4

Sample Name: 480-47634-D-1-B Acquired: 10/18/2013 13:32:44 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00011	.06888	-0.00098	.02296	.01189	-0.00007	11.521	-0.00004	-0.00007
Stddev	.00067	.02413	.00261	.00036	.00008	.00001	.027	.00004	.00009
%RSD	618.34	35.037	267.58	1.5861	.70072	16.965	.23827	114.56	122.23

#1	-0.00058	.05182	.00087	.02270	.01183	-0.00006	11.541	-0.00006	-0.00001
#2	.00037	.08595	-0.00282	.02321	.01195	-0.00008	11.502	-0.00001	-0.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00174	.00089	.05364	2.9031	3.5661	-0.00081	2.1895	.00057	.00037
Stddev	.00015	.00010	.00009	.0307	.0105	.00104	.0011	.00005	.00047
%RSD	8.5282	11.663	.16243	1.0579	.29496	127.51	.05051	9.6792	125.33

#1	.00164	.00082	.05370	2.8813	3.5587	-0.00155	2.1903	.00053	.00070
#2	.00185	.00097	.05357	2.9248	3.5736	-0.00008	2.1888	.00060	.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00038	25.470	.00048	.00037	4.060	-0.00070	.00078	.84240	-0.00040
Stddev	.00027	.034	.00002	.00106	.001	.00033	.00305	.00014	.00019
%RSD	70.759	.13238	4.0756	290.93	.0306	47.158	389.89	.01651	48.106

#1	.00019	25.494	.00049	-0.00039	4.059	-0.00047	-0.00138	.84230	-0.00026
#2	.00057	25.446	.00047	.00112	4.061	-0.00094	.00294	.84250	-0.00054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.07025	.00008	-0.00043	.00014	.00456
Stddev	.00002	.00031	.00236	.00011	.00026
%RSD	.03199	390.59	544.37	82.232	5.8087

#1	.07026	-0.00014	.00124	.00006	.00437
#2	.07023	.00030	-0.00210	.00021	.00475

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4683.8	7389.4	101050.	8563.4
Stddev	2.5	10.7	28.	14.2
%RSD	.05444	.14470	.02745	.16551

#1	4685.6	7397.0	101070.	8553.4
#2	4682.0	7381.9	101030.	8573.4

Sample Name: 480-47634-D-1-B SD@5 Acquired: 10/18/2013 13:35:05 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00030	.03928	.00194	.00436	.00245	-0.00007	2.3301	-0.00005	-0.00011
Stddev	.00027	.01340	.00047	.00016	.00000	.00010	.0235	.00002	.00011
%RSD	90.260	34.114	24.444	3.6784	.12299	139.69	1.0089	36.070	99.108

#1	-0.00011	.02980	.00227	.00447	.00244	-0.00015	2.3134	-0.00003	-0.00003
#2	-0.00048	.04875	.00160	.00424	.00245	-0.00000	2.3467	-0.00006	-0.00019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	-0.00041	.00173	.50463	.57789	-0.00011	.44458	.00005	-0.00022
Stddev	.00017	.00013	.00311	.07578	.00131	.00042	.00085	.00001	.00016
%RSD	96.662	32.234	179.71	15.017	.22658	384.79	.19163	22.187	72.362

#1	.00029	-0.00032	-0.00047	.45105	.57696	.00019	.44518	.00004	-0.00033
#2	.00006	-0.00050	.00393	.55822	.57881	-0.00041	.44398	.00005	-0.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	5.0069	.00026	.00005	.7928	-0.00090	-0.00063	.18016	.00007
Stddev	.00036	.0457	.00023	.00145	.0025	.00083	.00282	.00292	.00033
%RSD	286.24	.91198	86.822	3221.1	.3105	91.490	450.20	1.6197	453.93

#1	-0.00013	4.9747	.00042	.00107	.7910	-0.00032	.00137	.18222	-0.00016
#2	.00038	5.0392	.00010	-0.00098	.7945	-0.00149	-0.00262	.17810	.00030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01401	.00022	.00217	-0.00004	.00111
Stddev	.00010	.00026	.00054	.00012	.00008
%RSD	.70820	114.60	24.847	268.46	7.5357

#1	.01408	.00041	.00179	.00004	.00105
#2	.01394	.00004	.00255	-0.00013	.00117

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4797.6	7463.7	101440.	8491.2
Stddev	4.6	.1	458.	46.3
%RSD	.09537	.00196	.45173	.54504

#1	4800.8	7463.8	101760.	8524.0
#2	4794.3	7463.6	101110.	8458.5

Sample Name: 480-47634-D-1-B PDS Acquired: 10/18/2013 13:37:29 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04628	10.443	.20206	.22705	.21888	.20404	21.253	.19938	.19798
Stddev	.00018	.027	.00035	.00091	.00082	.00014	.063	.00075	.00033
%RSD	.39263	.25962	.17074	.40078	.37480	.06726	.29774	.37482	.16818

#1	.04615	10.463	.20231	.22640	.21946	.20395	21.208	.19991	.19821
#2	.04641	10.424	.20182	.22769	.21830	.20414	21.298	.19886	.19774

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19909	.19616	10.096	13.341	15.988	.20798	12.100	.20022	.18545
Stddev	.00072	.00124	.020	.006	.011	.00083	.012	.00000	.00016
%RSD	.35918	.63075	.19744	.04728	.06864	.39707	.09884	.00095	.08697

#1	.19960	.19704	10.082	13.336	15.980	.20856	12.109	.20022	.18556
#2	.19859	.19529	10.111	13.345	15.996	.20740	12.092	.20022	.18534

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20016	35.969	.19879	.19796	3.917	.20171	.19701	10.912	.19741
Stddev	.00015	.083	.00018	.00075	.004	.00334	.00186	.046	.00047
%RSD	.07553	.23134	.08839	.37780	.1079	1.6543	.94182	.42256	.23721

#1	.20027	35.910	.19891	.19743	3.914	.20407	.19569	10.880	.19775
#2	.20006	36.027	.19866	.19848	3.920	.19935	.19832	10.945	.19708

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.27400	.18962	.20110	.19562	.19577
Stddev	.00007	.00122	.00482	.00034	.00041
%RSD	.02702	.64535	2.3966	.17428	.20883

#1	.27394	.18876	.20451	.19538	.19548
#2	.27405	.19049	.19769	.19586	.19606

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4539.0	7380.1	98762.	8405.9
Stddev	1.4	6.3	38.	33.8
%RSD	.03015	.08561	.03855	.40251

#1	4539.9	7384.6	98735.	8429.8
#2	4538.0	7375.6	98789.	8382.0

Sample Name: 480-47634-D-1-C MS Acquired: 10/18/2013 13:39:49 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04864	10.387	.20579	.22151	.21313	.20918	21.637	.20346	.20230
Stddev	.00053	.082	.00302	.00031	.00098	.00064	.012	.00029	.00011
%RSD	1.0835	.78758	1.4653	.13829	.46197	.30726	.05582	.14371	.05644

#1	.04827	10.445	.20793	.22173	.21243	.20873	21.628	.20325	.20238
#2	.04901	10.329	.20366	.22129	.21382	.20964	21.646	.20366	.20222

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20149	.19924	10.315	13.296	15.501	.20609	12.306	.20456	.18972
Stddev	.00053	.00139	.023	.037	.018	.00144	.031	.00007	.00125
%RSD	.26417	.69569	.22705	.27742	.11468	.69746	.25043	.03255	.65627

#1	.20111	.19826	10.299	13.323	15.514	.20711	12.327	.20460	.18884
#2	.20186	.20022	10.332	13.270	15.489	.20507	12.284	.20451	.19060

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20499	36.557	.20358	.20104	F 14.82	.20832	.20657	10.291	.18955
Stddev	.00009	.175	.00098	.00114	.01	.00118	.00415	.042	.00007
%RSD	.04150	.47869	.48221	.56628	.0968	.56698	2.0094	.40351	.03923

#1	.20506	36.681	.20289	.20185	14.83	.20916	.20950	10.320	.18960
#2	.20493	36.433	.20428	.20024	14.81	.20749	.20363	10.261	.18950

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.27384	.19205	.20543	.19741	.21868
Stddev	.00051	.00092	.00037	.00004	.00213
%RSD	.18618	.47723	.17789	.02107	.97272

#1	.27348	.19270	.20568	.19744	.22018
#2	.27420	.19141	.20517	.19738	.21717

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4511.1	7360.0	98734.	8368.9
Stddev	1.0	.5	8.	15.0
%RSD	.02307	.00739	.00840	.17981

#1	4511.9	7360.4	98728.	8379.5
#2	4510.4	7359.6	98740.	8358.3

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04785	10.247	.20644	.22247	.21015	.21280	21.454	.20481	.20310
Stddev	.00042	.053	.00236	.00051	.00012	.00170	.138	.00006	.00006
%RSD	.88590	.51840	1.1440	.22904	.05689	.80122	.64380	.03170	.03115

#1	.04815	10.209	.20811	.22211	.21024	.21159	21.356	.20476	.20314
#2	.04755	10.284	.20477	.22283	.21007	.21400	21.552	.20485	.20305

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19819	.19726	10.442	12.998	15.301	.20322	12.274	.20458	.19154
Stddev	.00264	.00011	.064	.086	.041	.00283	.091	.00117	.00137
%RSD	1.3327	.05787	.61115	.65898	.26576	1.3939	.74416	.57037	.71591

#1	.20006	.19734	10.397	12.938	15.272	.20122	12.338	.20540	.19251
#2	.19632	.19717	10.487	13.059	15.329	.20522	12.209	.20375	.19057

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20626	36.000	.20379	.20280	F 14.61	.21026	.20567	10.427	.19068
Stddev	.00036	.278	.00010	.00129	.01	.00002	.00111	.029	.00027
%RSD	.17449	.77099	.04751	.63780	.0992	.01023	.54205	.27931	.14220

#1	.20600	35.804	.20386	.20189	14.60	.21025	.20488	10.406	.19049
#2	.20651	36.197	.20372	.20372	14.62	.21028	.20646	10.448	.19087

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.27631	.19218	.20753	.19547	.20941
Stddev	.00194	.00016	.00283	.00112	.00349
%RSD	.70329	.08071	1.3632	.57128	1.6686

#1	.27494	.19229	.20553	.19626	.21188
#2	.27769	.19207	.20953	.19468	.20694

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4502.8	7332.4	99358.	8417.5
Stddev	1.1	7.3	730.	27.5
%RSD	.02377	.10011	.73481	.32613

#1	4503.6	7337.6	98842.	8436.9
#2	4502.1	7327.2	99874.	8398.1

Sample Name: 480-47634-D-2-B Acquired: 10/18/2013 13:44:27 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00047	.04176	.00105	.02581	.01607	-0.00008	13.119	-0.00004	-0.00011
Stddev	.00019	.01275	.00024	.00014	.00009	.00006	.005	.00014	.00005
%RSD	41.562	30.531	22.878	.53851	.58065	72.661	.03765	337.15	48.365

#1	-0.00033	.03274	.00121	.02571	.01600	-0.00004	13.116	.00006	-0.00015
#2	-0.00061	.05077	.00088	.02591	.01614	-0.00012	13.123	-0.00015	-0.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00158	.00042	.04303	3.8180	4.5553	-0.00107	2.2513	.00050	.00089
Stddev	.00028	.00009	.00202	.0119	.0104	.00054	.0046	.00004	.00030
%RSD	17.843	21.790	4.6966	.31236	.22748	50.418	.20337	7.9188	34.014

#1	.00138	.00036	.04160	3.8095	4.5480	-0.00145	2.2545	.00053	.00068
#2	.00178	.00049	.04446	3.8264	4.5627	-0.00069	2.2481	.00047	.00111

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00047	26.543	.00034	-0.00086	4.096	-0.00028	.00204	1.0017	-0.00001
Stddev	.00009	.131	.00040	.00011	.008	.00022	.00098	.0117	.00034
%RSD	18.450	.49385	118.11	12.801	.1855	78.658	47.798	1.1723	5804.1

#1	.00053	26.450	.00063	-0.00094	4.101	-0.00044	.00274	1.0100	.00023
#2	.00040	26.635	.00006	-0.00078	4.090	-0.00012	.00135	.99342	-0.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08334	.00025	-0.00121	.00012	.00327
Stddev	.00014	.00017	.00002	.00003	.00012
%RSD	.17102	68.712	1.7127	24.402	3.5585

#1	.08324	.00013	-0.00119	.00015	.00319
#2	.08344	.00037	-0.00122	.00010	.00335

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4649.7	7349.9	100180.	8553.6
Stddev	9.4	11.7	215.	3.7
%RSD	.20176	.15933	.21416	.04314

#1	4656.3	7358.2	100330.	8551.0
#2	4643.0	7341.7	100020.	8556.2

Sample Name: CCV Acquired: 10/18/2013 13:46:51 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48494	24.379	.49647	.47728	.49205	.50063	24.327	.49103	.48786	.48477	.47891	24.462
Stddev	.00142	.007	.00078	.00005	.00023	.00067	.052	.00032	.00081	.00243	.00354	.042
%RSD	.29325	.02717	.15711	.01062	.04583	.13300	.21207	.06615	.16622	.50220	.73851	.17281

#1	.48393	24.383	.49592	.47731	.49221	.50110	24.363	.49080	.48728	.48304	.47641	24.491
#2	.48594	24.374	.49702	.47724	.49189	.50015	24.290	.49126	.48843	.48649	.48141	24.432

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.464	27.299	.48415	24.012	.50145	.46675	.48400	23.830	.49378	.49709	25.71	.51088
Stddev	.009	.129	.00307	.057	.00116	.00274	.00044	.057	.00067	.00068	.02	.00075
%RSD	.03879	.47295	.63337	.23738	.23127	.58776	.09027	.24060	.13664	.13731	.0826	.14624

#1	24.470	27.390	.48198	23.972	.50063	.46481	.48369	23.789	.49330	.49758	25.69	.51141
#2	24.457	27.207	.48631	24.053	.50227	.46869	.48431	23.870	.49426	.49661	25.72	.51035

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48589	24.018	.48527	.49495	.48146	.50474	.46959	.47943
Stddev	.00390	.002	.00021	.00126	.00058	.00074	.00275	.00183
%RSD	.80308	.00829	.04312	.25433	.12078	.14613	.58564	.38192

#1	.48313	24.020	.48512	.49584	.48187	.50422	.46765	.47814
#2	.48865	24.017	.48542	.49406	.48105	.50526	.47154	.48073

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4484.4	7400.0	98522.	8396.3
Stddev	4.2	3.7	318.	6.6
%RSD	.09321	.05005	.32239	.07874
#1	4487.3	7402.6	98746.	8391.6
#2	4481.4	7397.4	98297.	8400.9

Sample Name: CCB Acquired: 10/18/2013 13:49:13 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	.03848	.00080	.00011	-.00003	.00003	-.00587	-.00008	-.00016	-.00010	-.00090	-.00359
Stddev	.00017	.00466	.00081	.00019	.00001	.00004	.00172	.00006	.00002	.00013	.00032	.00057
%RSD	53.451	12.117	100.67	175.10	31.316	131.04	29.352	76.381	10.353	133.52	35.633	16.027

#1	.00045	.03519	.00023	.00024	-.00004	.00006	-.00709	-.00012	-.00014	-.00001	-.00067	-.00318
#2	.00020	.04178	.00137	-.00003	-.00002	.00000	-.00465	-.00003	-.00017	-.00019	-.00113	-.00399

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.03748	-.00145	-.00080	.00107	-.00008	-.00015	.00025	-.01332	-.00021	-.00104	.0023	.00049
Stddev	.04232	.00014	.00043	.00232	.00003	.00013	.00013	.01361	.00007	.00040	.0000	.00049
%RSD	112.92	9.8761	53.422	217.53	37.120	83.341	52.736	102.23	33.618	39.096	1.640	98.894

#1	-.06740	-.00135	-.00111	.00271	-.00010	-.00006	.00016	-.02294	-.00016	-.00075	.0023	.00015
#2	-.00755	-.00155	-.00050	-.00057	-.00006	-.00024	.00035	-.00369	-.00025	-.00132	.0022	.00084

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												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00132	.00827	-.00027	-.00000	.00014	.00130	.00011	.00026
Stddev	.00058	.01141	.00017	.00011	.00028	.00086	.00018	.00009
%RSD	43.730	137.85	64.721	3386.2	203.25	66.342	168.29	36.137

#1	.00091	.00021	-.00039	.00007	.00033	.00191	.00023	.00033
#2	.00173	.01634	-.00015	-.00008	-.00006	.00069	-.00002	.00019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4821.3	7467.0	101010.	8309.5
Stddev	.2	2.8	495.	13.4
%RSD	.00452	.03729	.49042	.16104
#1	4821.2	7469.0	100660.	8319.0
#2	4821.5	7465.1	101360.	8300.0

Sample Name: CCVL Acquired: 10/18/2013 13:51:39 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00313	.21351	.01168	.01951	.00199	.00202	.49648	.00098	.00388	.00359	.00901	F .08606
Stddev	.00022	.01967	.00006	.00030	.00004	.00003	.00258	.00003	.00002	.00018	.00024	.00031
%RSD	7.0971	9.2132	.53604	1.5182	1.8863	1.4244	.52004	3.5498	.51144	5.0103	2.6816	.36084

#1	.00297	.22742	.01173	.01972	.00201	.00204	.49466	.00095	.00390	.00371	.00884	.08627
#2	.00329	.19960	.01164	.01930	.00196	.00200	.49831	.00100	.00387	.00346	.00918	.08584

Check ?	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												.05000
Range												50.000%

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40831	.43786	F .00186	.19768	.00343	.00308	.01057	.87841	.00949	.00428	F .0012	.02090
Stddev	.02318	.00073	.00039	.00186	.00003	.00030	.00019	.00269	.00018	.00019	.0011	.00050
%RSD	5.6778	.16738	20.782	.93856	.94732	9.6579	1.7799	.30667	1.9034	4.3674	91.03	2.4039

#1	.39192	.43734	.00214	.19900	.00341	.00287	.01043	.88031	.00961	.00415	.0004	.02054
#2	.42470	.43837	.00159	.19637	.00345	.00329	.01070	.87650	.00936	.00442	.0020	.02125

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01589	.50312	.00924	.00491	.00465	.02226	.00469	.00979
Stddev	.00077	.00028	.00016	.00003	.00022	.00426	.00025	.00021
%RSD	4.8500	.05608	1.7795	.66745	4.8335	19.141	5.3031	2.1301

#1	.01644	.50292	.00936	.00494	.00449	.01925	.00452	.00994
#2	.01535	.50332	.00913	.00489	.00480	.02527	.00487	.00964

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4820.5	7497.6	102180.	8415.3
Stddev	1.7	5.6	242.	34.3
%RSD	.03533	.07516	.23721	.40747

#1	4821.8	7501.6	102010.	8391.1
#2	4819.3	7493.6	102350.	8439.6

Sample Name: 480-47634-D-3-B Acquired: 10/18/2013 13:54:03 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .00046	.15436	k .00109	-0.0113	s .00005	k -0.0013	-0.00196	k -0.00041	k .00003
Stddev	.00014	.08773	.00089	.00012	.00008	.00001	.00042	.00002	.00003
%RSD	30.510	56.834	82.259	10.895	162.71	5.8454	21.692	5.1090	87.733

#1	.00036	.21639	.00045	-0.0105	.00010	-0.0012	-0.00166	-0.00042	.00006
#2	s .00056	.09232	k .00172	-0.0122	s -.00001	k -0.0013	-0.00226	k -0.00039	k .00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .00005	s -.00456	.02257	.01272	.01485	-0.00210	s .00509	s -.00037	s -.00063
Stddev	.00012	.00046	.01737	.02953	.00259	.00049	.00131	.00007	.00008
%RSD	220.47	10.012	76.967	232.13	17.458	23.294	25.681	17.717	12.831

#1	-0.00003	-0.00424	.03485	.03360	.01302	-0.00176	.00602	-0.00032	-0.00057
#2	s .00014	s -.00489	.01029	-0.00816	.01668	-0.00245	s .00417	s -.00042	s -.00069

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00009	-0.01056	.00030	k .00093	.0025	k .00276	-0.00003	.82619	-0.00035
Stddev	.00003	.00818	.00004	.00009	.0005	.00037	.00111	.31177	.00034
%RSD	29.712	77.446	14.820	9.2288	18.51	13.528	3698.1	37.736	96.269

#1	-0.00011	-0.00478	.00026	.00087	.0021	.00250	-0.00082	1.0466	-0.00059
#2	-0.00007	-0.01635	.00033	k .00099	.0028	k .00303	.00076	.60573	-0.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00020	s .00243	k .00218	s .00004	s .00023
Stddev	.00001	.00011	.00057	.00011	.00007
%RSD	3.1409	4.4251	26.201	301.43	28.555

#1	.00020	.00235	.00178	-0.0004	.00019
#2	.00019	s .00251	k .00258	s .00011	s .00028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11635.	18910.	^ *****	15967.
Stddev	376.	585.	-----	2068.
%RSD	3.2306	3.0934	-----	12.952

#1	11901.	19323.	247930.	17429.
#2	11369.	18496.	^ -----	14505.

Sample Name: 480-47864-B-1-C@5 Acquired: 10/18/2013 13:56:31 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .00050	.02266	s .00071	s .00106	s -.00001	k -.00016	-.00344	s .00012	s .00002
Stddev	.00008	.01545	.00026	.00090	.00007	.00004	.00312	.00006	.00010
%RSD	16.482	68.167	36.197	84.536	686.67	22.130	90.610	52.868	493.67

#1	k .00056	.01174	s .00053	s .00043	.00004	k -.00019	-.00565	s .00007	s .00009
#2	s .00044	.03358	s .00089	s .00170	s -.00006	k -.00014	-.00124	s .00016	s -.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s -.00001	s -.00288	-.00324	-.06604	.00213	-.00256	s .00495	s -.00028	s -.00076
Stddev	.00010	.00051	.00380	.02982	.00292	.00088	.00315	.00000	.00005
%RSD	979.01	17.866	117.15	45.158	136.91	34.445	63.650	1.2319	6.8172

#1	.00006	k -.00325	-.00592	-.08712	.00419	-.00318	.00718	-.00028	-.00072
#2	s -.00008	s -.00252	-.00056	-.04495	.00007	-.00194	s .00272	s -.00028	s -.00079

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s .00025	-.00882	s .00014	s .00102	s -.0153	s -.00141	s -.00197	.13034	s -.00005
Stddev	.00004	.01967	.00020	.00033	.0021	.00044	.00547	.13825	.00015
%RSD	15.197	222.91	138.77	32.248	13.95	31.020	277.06	106.07	276.91

#1	s .00022	.00508	s .00029	s .00125	s -.0138	s -.00110	s .00189	.03258	s -.00016
#2	s .00028	-.02273	s .00000	s .00079	s -.0168	s -.00172	s -.00584	.22809	s .00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00012	s .00140	s .00056	s -.00005	s .00025
Stddev	.00004	.00100	.00068	.00009	.00022
%RSD	30.425	71.269	120.74	208.54	88.542

#1	.00009	.00210	s .00105	k .00002	.00041
#2	.00015	s .00069	s .00008	s -.00011	s .00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	^ *****	^ *****	^ *****	17951.
Stddev	-----	-----	-----	5327.
%RSD	-----	-----	-----	29.672

#1	^ -----	^ -----	229030.	21718.
#2	^ -----	^ -----	^ -----	14185.

Sample Name: 480-47864-B-1-C@20 Acquired: 10/18/2013 13:58:55 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00005	.08898	.00309	.04291	F 12.148	-0.00008	21.533	-0.00049	-0.00019
Stddev	.00035	.01246	.00072	.00022	.026	.00008	.006	.00006	.00000
%RSD	734.92	14.000	23.431	.51456	.21366	102.47	.02925	11.699	1.5715

#1	-0.00029	.08017	.00360	.04307	12.167	-0.00002	21.538	-0.00053	-0.00019
#2	.00020	.09779	.00257	.04276	12.130	-0.00013	21.529	-0.00045	-0.00019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.000				
Low Limit					-0.00200				

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00223	.00162	1.6158	.37311	.55667	.16302	1.5721	.08219	.07671
Stddev	.00010	.00009	.0006	.02460	.00081	.00044	.0055	.00009	.00104
%RSD	4.3415	5.3049	.03887	6.5941	.14465	.27012	.35145	.10962	1.3552

#1	.00229	.00168	1.6153	.35572	.55610	.16270	1.5682	.08226	.07597
#2	.00216	.00156	1.6162	.39051	.55724	.16333	1.5761	.08213	.07744

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00047	136.13	.03979	.00138	.4096	-0.00065	-0.00112	.39815	.00008
Stddev	.00022	.14	.00033	.00096	.0049	.00169	.00088	.00154	.00013
%RSD	46.116	.09928	.82571	69.557	1.193	262.11	78.709	.38650	159.50

#1	.00063	136.04	.04002	.00206	.4130	.00055	-0.00175	.39707	.00018
#2	.00032	136.23	.03955	.00070	.4061	-0.00184	-0.00050	.39924	-0.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	5.9821	.00022	.00179	.00001	.11877
Stddev	.0191	.00034	.00079	.00016	.00031
%RSD	.31874	152.39	44.383	2938.6	.25944

#1	5.9955	-0.00002	.00235	-0.00011	.11898
#2	5.9686	.00046	.00123	.00012	.11855

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4345.3	7177.5	95475.	8413.3
Stddev	.6	7.8	20.	29.2
%RSD	.01478	.10861	.02072	.34761

#1	4344.8	7183.0	95461.	8392.7
#2	4345.8	7172.0	95489.	8434.0

Sample Name: 480-47864-B-1-C@100 Acquired: 10/18/2013 14:01:32 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00049	.05206	.00167	.00804	2.4480	-0.00010	4.2713	-0.00015	-0.00008
Stddev	.00014	.00387	.00079	.00027	.0186	.00000	.0174	.00008	.00006
%RSD	27.632	7.4322	47.388	3.3999	.75955	.28798	.40746	54.846	77.326

#1	-0.00039	.04932	.00111	.00823	2.4348	-0.00010	4.2590	-0.00021	-0.00004
#2	-0.00059	.05480	.00222	.00784	2.4611	-0.00010	4.2836	-0.00009	-0.00013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00023	-0.00047	.31575	.04990	.07929	.02971	.31762	.01646	.01463
Stddev	.00014	.00032	.00086	.02939	.00054	.00040	.00074	.00009	.00070
%RSD	59.224	67.945	.27245	58.891	.68260	1.3365	.23150	.56305	4.7747

#1	.00033	-0.00070	.31514	.02912	.07891	.02943	.31710	.01639	.01414
#2	.00013	-0.00024	.31636	.07068	.07967	.02999	.31814	.01652	.01513

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	24.552	.00747	.00107	.0798	-0.00001	.00286	.07675	-0.00006
Stddev	.00001	.282	.00024	.00015	.0001	.00057	.00057	.00932	.00024
%RSD	13.050	1.1497	3.2217	14.072	.1308	6602.4	19.781	12.142	408.68

#1	.00006	24.353	.00764	.00096	.0798	-0.00041	.00246	.07016	.00011
#2	.00007	24.752	.00730	.00118	.0797	.00039	.00326	.08334	-0.00023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2108	-0.00002	.00075	.00001	.02393
Stddev	.0018	.00037	.00158	.00008	.00005
%RSD	.15050	1801.2	210.78	1032.3	.19939

#1	1.2121	-0.00028	-0.00037	.00006	.02389
#2	1.2095	.00024	.00187	-0.00005	.02396

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4650.9	7372.0	99022.	8427.1
Stddev	.8	2.6	179.	12.1
%RSD	.01682	.03546	.18051	.14311

#1	4650.3	7370.2	98896.	8418.6
#2	4651.4	7373.9	99148.	8435.6

Sample Name: MB 480-144115/1-B Acquired: 10/18/2013 14:04:01 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00013	.03277	.00079	.00221	.00004	-0.00005	.02565	-0.00014	-0.00011
Stddev	.00045	.01500	.00013	.00010	.00001	.00007	.00350	.00003	.00000
%RSD	335.75	45.766	16.154	4.4689	18.303	140.70	13.646	20.101	2.3635

#1	.00018	.04337	.00088	.00214	.00005	-0.00010	.02318	-0.00015	-0.00011
#2	-0.00045	.02216	.00070	.00228	.00004	-0.00000	.02813	-0.00012	-0.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	-0.00072	-0.00795	-0.06703	-0.00105	-0.00013	.00189	-0.00006	-0.00036
Stddev	.00025	.00015	.00167	.01726	.00038	.00040	.00189	.00000	.00028
%RSD	781.02	20.562	20.981	25.755	35.834	302.63	99.721	8.3907	78.594

#1	-0.00015	-0.00062	-0.00677	-0.07924	-0.00078	-0.00041	.00056	-0.00006	-0.00016
#2	.00021	-0.00083	-0.00913	-0.05482	-0.00131	.00015	.00323	-0.00006	-0.00055

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00003	-0.01144	.00031	-0.00052	.0030	.00017	.00080	-0.01052	.00005
Stddev	.00001	.00557	.00009	.00023	.0009	.00005	.00034	.00154	.00008
%RSD	17.407	48.668	28.949	44.630	31.13	28.083	42.160	14.641	153.13

#1	-0.00004	-0.01538	.00025	-0.00069	.0024	.00021	.00104	-0.00943	-0.00000
#2	-0.00003	-0.00751	.00038	-0.00036	.0037	.00014	.00056	-0.01161	.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00018	.00023	.00046	-0.00002	.00050
Stddev	.00006	.00005	.00095	.00001	.00004
%RSD	35.232	23.309	204.81	53.824	8.0172

#1	.00022	.00027	.00113	-0.00003	.00047
#2	.00013	.00020	-0.00021	-0.00001	.00053

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4846.9	7530.1	102740.	8507.4
Stddev	4.7	1.8	62.	21.2
%RSD	.09683	.02426	.06044	.24974
#1	4850.2	7528.8	102780.	8522.4
#2	4843.6	7531.4	102690.	8492.3

Sample Name: LCS 480-144115/2-B Acquired: 10/18/2013 14:06:25 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04845	10.150	.20399	.20313	.20237	.20746	9.8982	.20284	.19945
Stddev	.00039	.014	.00249	.00026	.00043	.00036	.0511	.00036	.00014
%RSD	.79702	.13710	1.2204	.12679	.21177	.17266	.51630	.17645	.06851

#1	.04818	10.140	.20575	.20295	.20267	.20721	9.8620	.20259	.19935
#2	.04873	10.160	.20223	.20332	.20207	.20771	9.9343	.20309	.19955

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19849	.19767	10.225	9.6458	10.537	.19806	10.198	.20431	.18642
Stddev	.00166	.00075	.030	.0413	.021	.00157	.000	.00023	.00128
%RSD	.83479	.37799	.28993	.42840	.19891	.79204	.00312	.11115	.68413

#1	.19966	.19820	10.204	9.6165	10.552	.19695	10.198	.20447	.18733
#2	.19732	.19714	10.246	9.6750	10.522	.19917	10.199	.20414	.18552

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20427	9.6129	.19968	.20041	10.38	.20442	.20450	9.9390	.19316
Stddev	.00011	.0068	.00027	.00115	.03	.00295	.00060	.0160	.00013
%RSD	.05555	.07052	.13500	.57612	.3315	1.4444	.29214	.16103	.06739

#1	.20435	9.6176	.19949	.19959	10.36	.20233	.20407	9.9276	.19307
#2	.20419	9.6081	.19987	.20123	10.41	.20651	.20492	9.9503	.19325

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20241	.19114	.20642	.19736	.19442
Stddev	.00066	.00169	.00043	.00049	.00175
%RSD	.32674	.88179	.20761	.24707	.90164

#1	.20194	.18994	.20612	.19702	.19566
#2	.20287	.19233	.20672	.19771	.19319

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4635.2	7394.3	99888.	8432.5
Stddev	.6	4.2	41.	14.4
%RSD	.01271	.05729	.04136	.17053

#1	4635.6	7397.3	99917.	8442.7
#2	4634.8	7391.3	99859.	8422.3

Sample Name: 480-47668-H-1-A Acquired: 10/18/2013 14:08:45 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0003	.03764	.01235	.13031	.00801	-0.0011	215.72	.00037	.00100
Stddev	.00023	.02610	.00151	.00063	.00006	.00004	.57	.00003	.00011
%RSD	682.40	69.341	12.261	.48014	.75200	39.133	.26256	9.0020	11.415

#1	-0.00020	.05609	.01128	.13075	.00797	-0.0014	216.12	.00035	.00091
#2	.00013	.01918	.01342	.12987	.00805	-0.0008	215.32	.00039	.00108

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00109	.00021	.71798	2.5955	3.8227	.01487	58.260	.98098	.95309
Stddev	.00008	.00022	.00413	.0532	.0135	.00073	.367	.00632	.00754
%RSD	7.6567	104.24	.57554	2.0515	.35302	4.8953	.63008	.64475	.79149

#1	.00103	.00036	.72090	2.6331	3.8132	.01538	58.001	.97651	.94776
#2	.00115	.00005	.71506	2.5578	3.8323	.01435	58.520	.98545	.95843

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02177	34.877	.00932	F -.00746	F 209.4	-0.00023	.00308	20.350	-0.00010
Stddev	.00018	.158	.00060	.00033	.8	.00021	.00283	.041	.00005
%RSD	.84302	.45382	6.4865	4.3689	.3620	90.880	91.950	.20237	47.258

#1	.02164	34.989	.00889	-0.00723	210.0	-0.00008	.00108	20.379	-0.00013
#2	.02190	34.765	.00975	-0.00769	208.9	-0.00038	.00509	20.321	-0.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-0.00500	-0.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.71530	.00088	.00063	-0.00015	.00131
Stddev	.00306	.00004	.00387	.00004	.00026
%RSD	.42798	4.3344	612.89	27.005	19.701

#1	.71314	.00085	.00337	-0.00012	.00113
#2	.71747	.00090	-0.00210	-0.00017	.00149

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4164.3	6853.5	93831.	8406.7
Stddev	1.8	6.3	763.	9.5
%RSD	.04418	.09249	.81268	.11283

#1	4165.6	6858.0	94371.	8413.4
#2	4163.0	6849.0	93292.	8400.0

Sample Name: 480-47668-H-1-A@5 Acquired: 10/18/2013 14:11:05 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0020	.02690	.00660	.02917	.00189	-0.0007	50.304	.00008	.00011
Stddev	.00002	.00841	.00005	.00004	.00002	.00003	.219	.00010	.00009
%RSD	11.071	31.257	.69823	.15005	.81221	40.005	.43587	128.64	75.462

#1	-0.0022	.02096	.00663	.02920	.00188	-0.0005	50.149	.00015	.00018
#2	-0.0019	.03285	.00657	.02914	.00190	-0.0009	50.459	.00001	.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00019	-0.0056	.16363	.53299	.65161	.00248	13.298	.22996	.21022
Stddev	.00006	.00023	.00101	.04141	.00762	.00078	.037	.00057	.00012
%RSD	29.101	40.985	.61774	7.7704	1.1700	31.469	.27684	.24579	.05811

#1	.00015	-0.0072	.16291	.50370	.64622	.00303	13.324	.23036	.21031
#2	.00023	-0.0040	.16434	.56227	.65700	.00193	13.272	.22956	.21014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00479	7.5084	.00182	-0.0137	F 46.33	-0.00095	.00072	4.6200	-0.0043
Stddev	.00018	.0453	.00045	.00274	.06	.00030	.00105	.0338	.00001
%RSD	3.6963	.60308	24.780	200.67	.1312	31.742	147.40	.73260	2.0061

#1	.00467	7.4763	.00150	-0.0331	46.38	-0.0074	-0.0003	4.5961	-0.0042
#2	.00492	7.5404	.00214	.00057	46.29	-0.0116	.00146	4.6439	-0.0043

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.16297	.00018	-0.00062	-0.00011	.00023
Stddev	.00026	.00007	.00192	.00003	.00007
%RSD	.15974	38.771	311.72	27.766	31.281

#1	.16279	.00013	.00074	-0.0014	.00028
#2	.16315	.00023	-0.00197	-0.0009	.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4558.8	7230.8	98295.	8377.8
Stddev	5.4	13.5	28.	27.5
%RSD	.11859	.18631	.02894	.32792

#1	4562.6	7240.4	98275.	8397.2
#2	4555.0	7221.3	98315.	8358.4

Sample Name: 480-47668-H-2-A Acquired: 10/18/2013 14:13:27 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00005	.07322	.00187	.11663	.01902	-0.00010	389.01	.00044	-0.00025
Stddev	.00040	.02478	.00022	.00054	.00006	.00003	.82	.00013	.00017
%RSD	771.71	33.840	11.544	.45981	.33447	32.034	.21130	30.176	67.771

#1	.00023	.05570	.00202	.11701	.01897	-0.00013	389.60	.00034	-0.00037
#2	-.00033	.09074	.00171	.11625	.01906	-0.00008	388.43	.00053	-0.00013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00060	.00071	4.2724	6.0587	10.550	.07627	245.40	.06339	.06311
Stddev	.00006	.00028	.00078	.0002	.058	.00082	.53	.00007	.00071
%RSD	10.190	39.167	.18283	.00336	.55297	1.0706	.21670	.11798	1.1270

#1	.00056	.00052	4.2669	6.0588	10.591	.07569	245.02	.06334	.06261
#2	.00065	.00091	4.2780	6.0585	10.509	.07685	245.78	.06344	.06361

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00196	380.62	.00127	-0.00405	F 757.8	-0.00144	.00438	12.879	-0.00017
Stddev	.00015	.40	.00030	.00006	1.6	.00030	.00226	.005	.00000
%RSD	7.5456	.10515	23.530	1.5544	.2070	20.550	51.634	.04243	1.4358

#1	.00186	380.33	.00106	-0.00401	756.6	-0.00165	.00278	12.883	-0.00017
#2	.00207	380.90	.00149	-0.00410	758.9	-0.00123	.00598	12.875	-0.00017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.70409	.00159	.00386	-0.00030	.00144
Stddev	.00046	.00008	.00067	.00019	.00006
%RSD	.06487	4.7820	17.413	64.506	4.3996

#1	.70441	.00164	.00339	-0.00016	.00140
#2	.70377	.00154	.00434	-0.00043	.00149

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3719.1	6431.0	86675.	8106.9
Stddev	5.4	14.0	50.	.0
%RSD	.14512	.21700	.05800	.00058

#1	3722.9	6440.9	86711.	8106.8
#2	3715.3	6421.1	86640.	8106.9

Sample Name: CCV Acquired: 10/18/2013 14:16:12 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48525	24.560	.49755	.47947	.49485	.50007	24.368	.49365	.48874	.48230	.47648	24.550
Stddev	.00200	.191	.00108	.00122	.00263	.00064	.172	.00014	.00045	.00244	.00128	.002
%RSD	.41207	.77928	.21620	.25341	.53050	.12825	.70507	.02868	.09198	.50675	.26866	.00668

#1	.48383	24.425	.49678	.47861	.49299	.49961	24.246	.49375	.48906	.48057	.47558	24.548
#2	.48666	24.696	.49831	.48033	.49671	.50052	24.489	.49355	.48843	.48403	.47739	24.551

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.614	27.252	.48675	24.092	.50415	.46887	.48662	24.092	.49720	.50023	26.02	.51755
Stddev	.127	.479	.00288	.018	.00091	.00078	.00001	.185	.00116	.00304	.02	.00174
%RSD	.51488	1.7579	.59137	.07562	.18107	.16626	.00288	.76585	.23316	.60739	.0831	.33531

#1	24.524	26.913	.48472	24.079	.50351	.46942	.48661	23.962	.49802	.49808	26.04	.51877
#2	24.703	27.590	.48879	24.105	.50480	.46832	.48663	24.223	.49638	.50237	26.01	.51632

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48792	24.099	.48448	.49575	.48400	.50298	.46761	.47601
Stddev	.00149	.222	.00045	.00044	.00089	.00048	.00026	.00071
%RSD	.30509	.91937	.09319	.08866	.18375	.09449	.05506	.14829

#1	.48897	23.942	.48416	.49544	.48463	.50331	.46743	.47651
#2	.48687	24.256	.48479	.49607	.48337	.50264	.46779	.47551

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4462.2	7363.8	98387.	8377.6
Stddev	.5	6.0	191.	64.7
%RSD	.01056	.08216	.19460	.77204
#1	4461.8	7368.1	98523.	8423.4
#2	4462.5	7359.5	98252.	8331.9

Sample Name: CCB Acquired: 10/18/2013 14:18:34 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00026	.02454	.00237	-0.00006	-0.00005	-0.00010	-0.00460	-0.00007	-0.00002	.00023	-0.00100	-0.00769
Stddev	.00055	.01565	.00072	.00038	.00001	.00002	.00124	.00004	.00004	.00016	.00016	.00009
%RSD	210.65	63.771	30.444	589.91	12.674	23.597	26.844	59.281	231.15	68.739	15.530	1.2205

#1	.00013	.03560	.00289	-0.00033	-0.00006	-0.00012	-0.00548	-0.00004	-0.00005	.00012	-0.00111	-0.00762
#2	-0.00065	.01347	.00186	.00020	-0.00005	-0.00009	-0.00373	-0.00010	.00001	.00034	-0.00089	-0.00775

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00489	-0.00169	-0.00115	.00065	-0.00005	-0.00036	.00027	.00530	-0.00002	-0.00024	F .0232	-0.00168
Stddev	.00700	.00012	.00044	.00140	.00000	.00006	.00040	.00038	.00022	.00023	.0013	.00028
%RSD	143.29	7.0674	38.183	214.14	8.2508	17.090	151.15	7.0905	1186.4	95.499	5.445	16.564

#1	.00984	-0.00160	-0.00084	.00164	-0.00005	-0.00032	-0.00002	.00503	.00014	-0.00040	.0241	-0.00148
#2	-0.00006	-0.00177	-0.00146	-0.00034	-0.00006	-0.00040	.00055	.00557	-0.00017	-0.00008	.0223	-0.00188

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-0.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00047	.00837	-0.00020	-0.00002	.00016	.00153	.00006	.00004
Stddev	.00159	.00449	.00003	.00017	.00001	.00083	.00009	.00008
%RSD	336.26	53.609	13.784	874.71	8.1236	54.439	155.45	173.33

#1	.00160	.00520	-0.00018	-0.00014	.00017	.00212	-0.00001	-0.00001
#2	-0.00065	.01154	-0.00022	.00010	.00015	.00094	.00013	.00010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4805.2	7432.2	101660.	8339.6
Stddev	5.0	4.0	267.	31.6
%RSD	.10492	.05369	.26241	.37923
#1	4808.8	7429.4	101470.	8362.0
#2	4801.7	7435.0	101840.	8317.2

Sample Name: CCVL Acquired: 10/18/2013 14:21:00 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00271	.22925	.01232	.01965	.00200	.00204	.49649	.00091	.00398	.00372	.00859	.04348
Stddev	.00029	.00501	.00066	.00038	.00002	.00006	.00196	.00009	.00002	.00037	.00014	.00229
%RSD	10.537	2.1869	5.3651	1.9124	1.2010	3.0256	.39558	10.134	.38603	9.8137	1.6497	5.2669

#1	.00251	.23280	.01279	.01992	.00202	.00208	.49787	.00084	.00399	.00346	.00849	.04510
#2	.00291	.22571	.01185	.01939	.00199	.00200	.49510	.00097	.00397	.00398	.00869	.04186

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.39614	.42985	F .00262	.20105	.00330	.00278	.01038	.89694	.00964	.00493	F .0178	.02049
Stddev	.02708	.00121	.00044	.00290	.00003	.00017	.00009	.00170	.00032	.00067	.0045	.00051
%RSD	6.8352	.28181	16.920	1.4436	1.0029	6.1840	.83135	.18982	3.3535	13.551	25.14	2.5116

#1	.41528	.43071	.00230	.20310	.00328	.00266	.01032	.89815	.00986	.00540	.0210	.02085
#2	.37699	.42900	.00293	.19900	.00332	.00290	.01044	.89574	.00941	.00446	.0146	.02012

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01909	.50347	.00913	.00526	.00460	.02128	.00444	.00980
Stddev	.00180	.00843	.00015	.00005	.00005	.00205	.00020	.00009
%RSD	9.4231	1.6739	1.6915	.97580	1.0137	9.6318	4.4227	.89298

#1	.02037	.50943	.00924	.00529	.00463	.01983	.00458	.00986
#2	.01782	.49751	.00902	.00522	.00457	.02273	.00430	.00973

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4793.4	7466.7	101460.	8377.8
Stddev	3.5	4.0	233.	23.0
%RSD	.07320	.05390	.22959	.27505
#1	4795.9	7463.9	101620.	8361.5
#2	4790.9	7469.6	101290.	8394.1

Sample Name: 480-47668-H-4-A Acquired: 10/18/2013 14:23:25 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0010	.03470	.00093	.14377	.04481	-0.0010	76.940	.00015	-0.0024
Stddev	.00053	.00498	.00086	.00033	.00003	.00014	.209	.00004	.00006
%RSD	532.44	14.347	92.314	.22716	.07204	148.14	.27204	23.366	26.080

#1	.00028	.03822	.00153	.14400	.04483	.00000	76.792	.00013	-.00020
#2	-.00048	.03118	.00032	.14354	.04479	-.00020	77.088	.00018	-.00029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	-0.0021	.12660	2.3124	2.9416	.01697	55.002	.01231	.01132
Stddev	.00013	.00014	.00296	.0276	.0085	.00059	.212	.00001	.00014
%RSD	34.391	66.964	2.3408	1.1930	.28784	3.4496	.38573	.08793	1.2563

#1	.00028	-.00031	.12451	2.2929	2.9476	.01739	55.152	.01232	.01142
#2	.00046	-.00011	.12870	2.3319	2.9356	.01656	54.852	.01231	.01122

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00125	7.9971	.00038	-0.00352	F 15.14	.00022	-0.00061	9.9719	-0.00003
Stddev	.00015	.0248	.00035	.00085	.05	.00189	.00166	.0635	.00021
%RSD	11.939	.31034	90.436	24.290	.3601	857.11	271.66	.63669	791.53

#1	.00136	7.9796	.00014	-.00412	15.17	.00156	.00056	9.9270	-.00018
#2	.00115	8.0147	.00063	-.00291	15.10	-.00112	-.00178	10.017	.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.60280	.00029	.00246	-0.00042	.00113
Stddev	.00211	.00009	.00072	.00008	.00007
%RSD	.34964	30.111	29.266	19.360	6.5701

#1	.60131	.00023	.00195	-.00047	.00118
#2	.60429	.00035	.00297	-.00036	.00108

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4393.2	7114.5	96254.	8368.1
Stddev	1.0	2.4	33.	11.5
%RSD	.02232	.03306	.03466	.13765

#1	4392.5	7112.8	96231.	8376.3
#2	4393.9	7116.2	96278.	8360.0

Sample Name: 480-47642-C-3-A Acquired: 10/18/2013 14:25:47 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00008	.00980	.00128	-0.00115	-0.00004	-0.00019	-0.00060	-0.00038	.00007
Stddev	.00020	.01702	.00042	.00006	.00002	.00000	.00259	.00002	.00001
%RSD	263.75	173.75	32.479	4.9399	44.889	.53248	431.83	4.9312	14.677

#1	-0.00022	-0.00224	.00099	-0.00119	-0.00002	-0.00019	-0.00243	-0.00040	.00006
#2	.00007	.02183	.00158	-0.00111	-0.00005	-0.00019	.00123	-0.00037	.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00005	-0.00377	-0.01048	-0.05457	-0.00224	-0.00181	.00274	-0.00034	-0.00064
Stddev	.00018	.00103	.00010	.01992	.00071	.00069	.00018	.00005	.00002
%RSD	341.01	27.220	.93176	36.506	31.524	37.956	6.6291	13.785	2.6515

#1	-0.00018	-0.00305	-0.01041	-0.06866	-0.00274	-0.00230	.00261	-0.00031	-0.00066
#2	.00007	-0.00450	-0.01055	-0.04049	-0.00174	-0.00133	.00287	-0.00037	-0.00063

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00014	-0.00637	.00025	.00065	.0101	.00252	-0.00085	.01236	-0.00028
Stddev	.00005	.00457	.00011	.00012	.0003	.00028	.00063	.02267	.00010
%RSD	37.609	71.796	45.406	18.337	3.237	10.978	73.787	183.40	36.314

#1	-0.00018	-0.00313	.00033	.00057	.0099	.00232	-0.00129	-0.00367	-0.00021
#2	-0.00010	-0.00960	.00017	.00074	.0103	.00271	-0.00041	.02840	-0.00035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00009	.00049	.00178	.00003	.00013
Stddev	.00007	.00013	.00032	.00009	.00004
%RSD	76.123	27.545	18.143	347.20	33.263

#1	.00004	.00058	.00201	.00009	.00010
#2	.00014	.00039	.00155	-0.00004	.00017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11307.	18398.	248270.	16205.
Stddev	11.	8.	60782.	2305.
%RSD	.09596	.04232	24.483	14.222

#1	11299.	18393.	205290.	17835.
#2	11315.	18404.	291250.	14575.

Sample Name: MB 480-145303/1-A Acquired: 10/18/2013 14:28:17 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	.02242	.00176	-.00119	-.00004	-.00014	.00001	-.00042	.00010
Stddev	.00006	.00075	.00050	.00022	.00000	.00001	.00452	.00000	.00001
%RSD	79.894	3.3295	28.402	18.094	9.0327	9.4229	41290.	.67941	14.925

#1	.00011	.02190	.00211	-.00104	-.00004	-.00015	-.00318	-.00042	.00009
#2	.00003	.02295	.00141	-.00134	-.00003	-.00013	.00320	-.00042	.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00001	F -.00427	-.00710	-.03277	-.00178	-.00178	.00365	-.00035	-.00067
Stddev	.00015	.00040	.00063	.04395	.00126	.00009	.00091	.00002	.00011
%RSD	2178.5	9.4108	8.8949	134.11	70.651	5.3090	24.993	5.7608	17.229

#1	.00011	-.00398	-.00755	-.06385	-.00268	-.00185	.00301	-.00034	-.00075
#2	-.00010	-.00455	-.00666	-.00169	-.00089	-.00172	.00430	-.00037	-.00058

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.01000							
Low Limit		-.00400							

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00009	-.00828	.00004	.00082	.0074	.00146	.00036	.02761	-.00027
Stddev	.00000	.00668	.00010	.00017	.0002	.00083	.00170	.02992	.00002
%RSD	4.7958	80.649	250.82	21.118	2.941	56.764	478.74	108.39	7.7578

#1	-.00009	-.00356	.00011	.00094	.0073	.00087	-.00085	.00645	-.00026
#2	-.00008	-.01300	-.00003	.00069	.0076	.00204	.00156	.04877	-.00029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00013	.00055	.00146	-.00003	.00011
Stddev	.00003	.00005	.00058	.00006	.00001
%RSD	26.101	9.9095	39.979	171.07	11.797

#1	.00011	.00051	.00105	-.00007	.00010
#2	.00016	.00059	.00187	.00001	.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11440.	18578.	262670.	15318.
Stddev	429.	677.	3648.	2743.
%RSD	3.7459	3.6442	1.3888	17.910

#1	11137.	18099.	260090.	17257.
#2	11743.	19057.	265250.	13378.

Sample Name: LCS 480-145303/2-A Acquired: 10/18/2013 14:30:47 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04872	10.107	.20380	.20267	.20134	.20705	9.9122	.20278	.19933
Stddev	.00026	.061	.00087	.00008	.00008	.00120	.0395	.00047	.00000
%RSD	.52505	.60403	.42787	.03924	.03866	.57719	.39859	.23380	.00174

#1	.04854	10.064	.20441	.20273	.20128	.20621	9.8843	.20244	.19932
#2	.04890	10.151	.20318	.20262	.20139	.20790	9.9402	.20311	.19933

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19843	.19713	10.203	9.6038	10.519	.19568	10.172	.20380	.18545
Stddev	.00009	.00051	.016	.0783	.120	.00026	.040	.00041	.00172
%RSD	.04702	.25826	.15813	.81562	1.1418	.13429	.39252	.20325	.92869

#1	.19849	.19677	10.191	9.5484	10.434	.19549	10.200	.20409	.18667
#2	.19836	.19749	10.214	9.6592	10.604	.19586	10.143	.20351	.18423

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20410	9.5661	.20000	.20033	10.49	.20598	.20065	9.9218	.19126
Stddev	.00002	.0246	.00087	.00033	.01	.00347	.00292	.0131	.00098
%RSD	.00782	.25689	.43690	.16663	.1339	1.6855	1.4569	.13233	.51142

#1	.20411	9.5487	.19938	.20056	10.48	.20352	.19859	9.9311	.19057
#2	.20409	9.5835	.20062	.20009	10.50	.20843	.20272	9.9125	.19195

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20099	.19042	.20592	.19412	.19186
Stddev	.00060	.00042	.00036	.00024	.00120
%RSD	.29665	.22285	.17554	.12594	.62390

#1	.20141	.19072	.20566	.19395	.19270
#2	.20057	.19012	.20617	.19430	.19101

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4649.6	7433.3	100740.	8448.2
Stddev	4.0	10.1	260.	39.1
%RSD	.08565	.13534	.25790	.46323

#1	4652.4	7440.4	100550.	8475.9
#2	4646.7	7426.2	100920.	8420.5

Sample Name: 480-47466-B-1-B Acquired: 10/18/2013 14:33:07 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00082	.09500	.12540	.10611	.01018	-.00012	3.6991	.00011	.00162
Stddev	.00017	.02651	.00199	.00009	.00003	.00001	.0101	.00017	.00017
%RSD	21.009	27.910	1.5830	.08379	.26608	7.1055	.27326	154.32	10.353

#1	.00095	.11375	.12400	.10617	.01020	-.00012	3.6920	.00023	.00150
#2	.00070	.07625	.12680	.10604	.01017	-.00013	3.7063	-.00001	.00174

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00215	.01068	2.2834	F 2225.2	^ *****	.01666	1.3425	.14277	.15482
Stddev	.00033	.00003	.0065	.4	----	.00028	.0145	.00043	.00135
%RSD	15.562	.28001	.28475	.01642	----	1.6549	1.0797	.29823	.86981

#1	.00191	.01066	2.2788	2225.5	^ ----	.01646	1.3527	.14307	.15577
#2	.00238	.01070	2.2880	2225.0	^ ----	.01685	1.3322	.14247	.15387

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				600.00					
Low Limit				-.50000					

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.15289	310.56	.02465	.02203	F 152.5	.00089	.00858	10.060	-.00051
Stddev	.00085	1.07	.00085	.00155	.0	.00132	.00377	.101	.00053
%RSD	.55443	.34487	3.4615	7.0520	.0046	149.08	43.984	1.0025	104.76

#1	.15349	309.81	.02525	.02312	152.5	-.00005	.00591	9.9886	-.00013
#2	.15229	311.32	.02404	.02093	152.5	.00182	.01125	10.131	-.00088

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.10120	.00215	-.00129	.03672	.01341
Stddev	.00071	.00006	.00077	.00006	.00015
%RSD	.70063	3.0108	59.986	.16961	1.1059

#1	.10170	.00220	-.00074	.03676	.01331
#2	.10070	.00211	-.00184	.03668	.01352

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3583.5	6512.0	83119.	8528.1
Stddev	1.1	1.8	204.	63.7
%RSD	.03039	.02738	.24577	.74672

#1	3584.3	6510.8	82975.	8573.1
#2	3582.7	6513.3	83264.	8483.1

Sample Name: 480-47466-B-2-B Acquired: 10/18/2013 14:35:42 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00018	.07690	.01271	.17388	.00332	-.00008	25.164	.00008	.00078
Stddev	.00110	.01012	.00314	.00007	.00000	.00003	.149	.00002	.00002
%RSD	618.17	13.162	24.695	.04171	.07589	31.462	.59379	23.845	2.5445

#1	.00096	.08406	.01493	.17393	.00332	-.00010	25.270	.00007	.00079
#2	-.00060	.06974	.01049	.17383	.00332	-.00006	25.058	.00009	.00076

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00213	.00120	5.9101	F 647.37	^ *****	.01695	17.811	.14949	.14918
Stddev	.00066	.00013	.0028	2.92	----	.00038	.050	.00018	.00086
%RSD	30.902	11.213	.04719	.45181	----	2.2589	.28217	.11988	.57919

#1	.00260	.00110	5.9081	649.44	^ ----	.01722	17.846	.14961	.14857
#2	.00166	.00129	5.9120	645.30	^ ----	.01668	17.775	.14936	.14979

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				600.00					
Low Limit				-.50000					

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00120	130.14	.00902	F -.00711	F 158.0	-.00077	.00011	23.043	-.00044
Stddev	.00029	.01	.00010	.00047	.5	.00206	.00339	.179	.00058
%RSD	24.420	.00913	1.1249	6.6358	.3152	267.82	3088.7	.77690	131.34

#1	.00141	130.13	.00909	-.00744	157.7	.00069	.00251	23.170	-.00003
#2	.00100	130.15	.00895	-.00677	158.4	-.00222	-.00229	22.917	-.00085

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-.00500	-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.60187	.00165	.00017	.00194	.02486
Stddev	.00275	.00016	.00280	.00011	.00004
%RSD	.45744	9.9785	1687.3	5.4234	.15961

#1	.59993	.00176	-.00182	.00187	.02483
#2	.60382	.00153	.00215	.00202	.02489

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3991.6	6872.3	89564.	8403.9
Stddev	3.6	.9	15.	35.6
%RSD	.08965	.01367	.01666	.42377

#1	3994.1	6871.7	89554.	8378.7
#2	3989.1	6873.0	89575.	8429.1

Sample Name: 480-47466-B-3-B Acquired: 10/18/2013 14:38:05 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	.06094	.01318	.17113	.00250	-.00006	24.280	.00007	.00078
Stddev	.00039	.02017	.00057	.00011	.00002	.00007	.025	.00002	.00006
%RSD	384.23	33.101	4.3326	.06328	.61845	114.74	.10098	36.335	7.2907

#1	-.00017	.04667	.01358	.17120	.00249	-.00011	24.263	.00009	.00074
#2	.00038	.07520	.01277	.17105	.00251	-.00001	24.298	.00005	.00082

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00169	.00077	5.4452	F 631.54	^ *****	.01728	17.337	.14020	.13879
Stddev	.00013	.00001	.0253	1.55	----	.00026	.050	.00039	.00097
%RSD	7.4925	1.1000	.46429	.24466	----	1.5152	.28679	.27804	.69842

#1	.00160	.00076	5.4273	632.63	^ ----	.01710	17.302	.13993	.13947
#2	.00178	.00077	5.4631	630.45	^ ----	.01747	17.372	.14048	.13810

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				600.00					
Low Limit				-.50000					

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00120	126.89	.00511	F -.00733	F 154.8	-.00114	.00044	22.407	-.00048
Stddev	.00022	.59	.00018	.00189	.0	.00099	.00072	.007	.00015
%RSD	18.733	.46439	3.4960	25.722	.0207	86.669	164.94	.02914	31.505

#1	.00136	127.31	.00523	-.00866	154.8	-.00185	.00094	22.411	-.00038
#2	.00104	126.47	.00498	-.00600	154.7	-.00044	-.00007	22.402	-.00059

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-.00500	-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.58570	.00075	-.00129	.00160	.00460
Stddev	.00034	.00022	.00003	.00017	.00042
%RSD	.05790	29.016	2.0524	10.389	9.0752

#1	.58546	.00060	-.00127	.00149	.00430
#2	.58594	.00091	-.00131	.00172	.00489

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4000.7	6875.3	90199.	8432.3
Stddev	1.0	4.9	58.	16.2
%RSD	.02568	.07140	.06444	.19266

#1	4001.4	6871.8	90240.	8443.8
#2	3999.9	6878.7	90158.	8420.8

Sample Name: 480-47466-B-4-D Acquired: 10/18/2013 14:40:28 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00248	.34155	.07179	.19534	.05900	.00000	10.534	.00031	.00674
Stddev	.00075	.03688	.00174	.00014	.00024	.00006	.014	.00013	.00003
%RSD	30.386	10.797	2.4290	.06916	.40705	2926.1	.13062	40.698	.48440

#1	.00195	.36763	.07302	.19544	.05917	-.00004	10.544	.00022	.00672
#2	.00302	.31548	.07055	.19525	.05883	.00004	10.525	.00040	.00677

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00351	.01168	2.6045	F 1526.0	^ *****	.02005	8.5392	.02863	.03016
Stddev	.00004	.00011	.00052	3.9	----	.00008	.0023	.00003	.00093
%RSD	1.0137	.96800	.20093	.25394	----	.40304	.02662	.10601	3.0687

#1	.00349	.01160	2.6082	1523.2	^ -----	.02010	8.5376	.02865	.03081
#2	.00354	.01176	2.6008	1528.7	^ -----	.01999	8.5408	.02861	.02950

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				600.00					
Low Limit				-.50000					

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10499	455.97	.03650	.02388	F 130.3	-.00095	.00324	4.1706	.00051
Stddev	.00023	.16	.00047	.00049	.1	.00096	.00305	.0127	.00030
%RSD	.22298	.03458	1.2969	2.0334	.0883	100.32	94.161	.30346	57.964

#1	.10515	455.86	.03616	.02422	130.2	-.00163	.00108	4.1616	.00073
#2	.10482	456.08	.03683	.02354	130.4	-.00028	.00540	4.1795	.00030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.23727	.01277	-.00112	.02619	.06955
Stddev	.00054	.00022	.00237	.00025	.00047
%RSD	.22939	1.7437	212.70	.94479	.67997

#1	.23688	.01261	-.00279	.02601	.06989
#2	.23765	.01293	.00056	.02636	.06922

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3671.8	6562.9	83679.	8455.5
Stddev	3.8	1.7	222.	5.1
%RSD	.10282	.02581	.26564	.06021

#1	3674.5	6561.7	83522.	8459.1
#2	3669.1	6564.1	83836.	8451.9

Sample Name: 480-47466-B-4-D SD@5 Acquired: 10/18/2013 14:43:03 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00063	.08208	.01375	.03858	.01203	.00000	2.1014	-0.00002	.00127
Stddev	.00008	.02262	.00263	.00031	.00002	.00001	.0001	.00001	.00008
%RSD	12.610	27.561	19.146	.80379	.12598	355.38	.00321	40.902	6.0980

#1	.00057	.06608	.01189	.03836	.01202	.00001	2.1014	-0.00003	.00133
#2	.00069	.09808	.01561	.03880	.01204	-0.00000	2.1015	-0.00002	.00122

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00076	.00169	.51296	330.02	^ *****	.00346	1.7236	.00554	.00579
Stddev	.00016	.00033	.00149	.31	----	.00131	.0067	.00003	.00058
%RSD	20.374	19.293	.29119	.09411	----	37.944	.38670	.58719	10.065

#1	.00065	.00146	.51190	329.80	^ ----	.00253	1.7283	.00551	.00538
#2	.00088	.00192	.51401	330.24	^ ----	.00439	1.7189	.00556	.00620

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02143	87.680	.00652	.00404	F 24.40	.00066	.00012	.80443	-0.00007
Stddev	.00040	.025	.00018	.00052	.04	.00080	.00072	.00206	.00016
%RSD	1.8723	.02891	2.7699	12.776	.1659	120.57	620.79	.25565	245.41

#1	.02172	87.662	.00665	.00441	24.37	.00123	.00062	.80298	.00005
#2	.02115	87.698	.00639	.00368	24.43	.00010	-0.00039	.80588	-0.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04711	.00221	.00165	.00523	.01320
Stddev	.00002	.00017	.00040	.00009	.00049
%RSD	.04426	7.6143	23.984	1.7580	3.7108

#1	.04710	.00233	.00137	.00530	.01286
#2	.04713	.00209	.00193	.00517	.01355

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4213.5	7053.9	92712.	8422.6
Stddev	2.2	6.8	269.	7.2
%RSD	.05161	.09605	.29050	.08583

#1	4215.0	7049.1	92521.	8417.5
#2	4212.0	7058.7	92902.	8427.7

Sample Name: CCV Acquired: 10/18/2013 14:45:29 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47906	24.117	.49427	.47478	.48876	.49747	24.043	.49130	.48759	.47514	.47085	24.478
Stddev	.00025	.111	.00152	.00025	.00245	.00088	.027	.00124	.00003	.00080	.00084	.009
%RSD	.05145	.45831	.30741	.05169	.50101	.17779	.11082	.25151	.00608	.16926	.17744	.03783

#1	.47924	24.039	.49319	.47495	.48702	.49685	24.024	.49218	.48761	.47457	.47144	24.485
#2	.47889	24.195	.49534	.47461	.49049	.49810	24.061	.49043	.48757	.47571	.47026	24.472

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.320	24.247	.47789	23.907	.49934	.46264	.48441	23.571	.49492	.49914	25.83	.51319
Stddev	.151	.249	.00771	.019	.00034	.00261	.00188	.265	.00153	.00050	.05	.00001
%RSD	.59684	1.0258	1.6137	.08002	.06802	.56466	.38785	1.1262	.30891	.10097	.1818	.00107

#1	25.213	24.071	.47243	23.894	.49910	.46079	.48574	23.384	.49600	.49879	25.86	.51319
#2	25.427	24.423	.48334	23.921	.49958	.46448	.48308	23.759	.49384	.49950	25.79	.51318

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48498	23.747	.48483	.49489	.48115	.50148	.46278	.47319
Stddev	.00294	.234	.00048	.00033	.00071	.00277	.00260	.00306
%RSD	.60716	.98554	.09804	.06710	.14694	.55166	.56240	.64719

#1	.48289	23.582	.48517	.49512	.48065	.50344	.46462	.47102
#2	.48706	23.913	.48450	.49465	.48165	.49952	.46094	.47535

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4473.9	7391.6	99143.	8423.2
Stddev	5.9	3.6	136.	26.1
%RSD	.13089	.04823	.13687	.31035
#1	4478.0	7394.2	99239.	8404.7
#2	4469.7	7389.1	99048.	8441.7

Sample Name: CCB Acquired: 10/18/2013 14:47:51 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	.00481	.00343	-.00003	-.00003	-.00010	-.00583	-.00009	-.00007	-.00003	-.00057	-.00682
Stddev	.00040	.00575	.00171	.00040	.00001	.00009	.00120	.00002	.00003	.00023	.00001	.00105
%RSD	197.92	119.38	49.969	1344.3	43.061	93.610	20.563	21.150	37.061	817.38	1.7367	15.450

#1	-.00008	.00888	.00464	.00025	-.00002	-.00016	-.00499	-.00008	-.00005	-.00019	-.00056	-.00608
#2	.00049	.00075	.00222	-.00031	-.00004	-.00003	-.00668	-.00010	-.00009	.00014	-.00057	-.00757

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .59282	.01081	-.00067	.00099	-.00007	-.00002	.00015	.01687	-.00044	.00063	F .0119	-.00024
Stddev	.07678	.00019	.00050	.00118	.00004	.00037	.00004	.00811	.00009	.00071	.0013	.00071
%RSD	12.951	1.7274	74.172	119.08	51.074	1892.7	25.155	48.063	20.830	113.13	10.98	299.48

#1	.64711	.01094	-.00102	.00182	-.00005	-.00028	.00012	.02261	-.00038	.00113	.0128	.00026
#2	.53853	.01067	-.00032	.00016	-.00010	.00025	.00018	.01114	-.00051	.00013	.0110	-.00073

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	.50000										.0030	
Low Limit	-.50000										-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00000	.00040	-.00022	.00006	-.00015	.00131	-.00015	.00018
Stddev	.00061	.01507	.00013	.00018	.00010	.00022	.00003	.00005
%RSD	45092.	3743.9	59.370	321.45	70.296	17.160	19.541	28.803

#1	.00043	.01106	-.00031	.00018	-.00022	.00115	-.00017	.00022
#2	-.00043	-.01026	-.00013	-.00007	-.00007	.00147	-.00013	.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4813.8	7454.8	101010.	8303.0
Stddev	11.2	2.1	461.	60.5
%RSD	.23183	.02756	.45641	.72862
#1	4821.7	7456.3	100680.	8345.8
#2	4805.9	7453.4	101340.	8260.2

Sample Name: CCVL Acquired: 10/18/2013 14:50:17 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00256	.20455	.01117	.01975	.00199	.00196	.49325	.00087	.00385	.00394	.00866	.04223
Stddev	.00082	.00631	.00262	.00005	.00001	.00000	.00491	.00000	.00013	.00000	.00011	.00189
%RSD	32.076	3.0853	23.431	.26966	.62610	.01651	.99631	.41452	3.3677	.06752	1.2683	4.4692

#1	.00314	.20008	.01303	.01979	.00199	.00196	.48978	.00088	.00394	.00394	.00874	.04090
#2	.00198	.20901	.00932	.01971	.00200	.00196	.49673	.00087	.00375	.00394	.00858	.04356

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .79079	.42567	F .00220	.19700	.00323	.00286	.01014	.89422	.00978	.00562	F .0120	.02056
Stddev	.03026	.00034	.00108	.00043	.00002	.00078	.00012	.00461	.00034	.00016	.0017	.00093
%RSD	3.8268	.07885	48.932	.22042	.58827	27.208	1.1760	.51557	3.4650	2.9053	14.16	4.5413

#1	.81219	.42591	.00144	.19669	.00322	.00341	.01006	.89748	.00954	.00551	.0108	.02122
#2	.76939	.42543	.00297	.19731	.00324	.00231	.01023	.89096	.01002	.00574	.0132	.01990

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	.50000		.03000								.2000	
Range	50.000%		-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01658	.48734	.00963	.00503	.00481	.02018	.00481	.00992
Stddev	.00095	.00696	.00049	.00007	.00031	.00023	.00007	.00043
%RSD	5.7391	1.4287	5.1015	1.4393	6.3921	1.1555	1.5154	4.3222

#1	.01591	.49227	.00997	.00498	.00459	.02002	.00487	.00962
#2	.01726	.48242	.00928	.00508	.00502	.02034	.00476	.01023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4813.2	7477.9	102170.	8415.4
Stddev	2.7	10.7	23.	18.4
%RSD	.05675	.14275	.02276	.21839

#1	4815.1	7485.4	102190.	8428.4
#2	4811.2	7470.3	102160.	8402.4

Sample Name: 480-47466-B-4-D PDS Acquired: 10/18/2013 14:52:42 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05784	11.108	.29118	.40075	.25478	.20602	20.069	.22254	.22429
Stddev	.00021	.092	.00608	.00147	.00070	.00068	.034	.00041	.00027
%RSD	.36703	.83242	2.0886	.36801	.27445	.33171	.17138	.18363	.12225

#1	.05799	11.043	.29548	.40179	.25527	.20650	20.045	.22283	.22448
#2	.05769	11.174	.28688	.39971	.25429	.20554	20.093	.22226	.22410

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20493	.21918	12.809	F 1503.3	^ *****	.26961	18.059	.23463	.24831
Stddev	.00127	.00089	.004	5.6	----	.00014	.019	.00028	.00273
%RSD	.62141	.40442	.02882	.36975	----	.05344	.10511	.11945	1.1006

#1	.20583	.21981	12.806	1499.3	^ -----	.26971	18.072	.23443	.25024
#2	.20403	.21855	12.811	1507.2	^ -----	.26951	18.045	.23483	.24638

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				600.00					
Low Limit				-.50000					

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.30104	455.73	.25245	.23806	F 124.9	.21885	.22557	14.325	.21268
Stddev	.00089	.04	.00076	.00002	.2	.00216	.00060	.115	.00141
%RSD	.29407	.00889	.30277	.01028	.1264	.98640	.26556	.80059	.66260

#1	.30166	455.76	.25191	.23804	125.0	.22038	.22514	14.244	.21367
#2	.30041	455.70	.25299	.23807	124.8	.21732	.22599	14.407	.21168

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.44480	.20912	.20466	.22524	.27659
Stddev	.00052	.00018	.00242	.00088	.00070
%RSD	.11758	.08586	1.1845	.39108	.25334

#1	.44517	.20925	.20637	.22586	.27709
#2	.44443	.20900	.20294	.22462	.27610

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3658.2	6652.3	85673.	8459.4
Stddev	4.9	11.9	116.	40.2
%RSD	.13430	.17886	.13546	.47494

#1	3654.7	6643.9	85591.	8487.8
#2	3661.6	6660.8	85755.	8431.0

Sample Name: 480-47466-B-4-E MS Acquired: 10/18/2013 14:55:11 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05755	10.496	.28976	.39351	.24213	.20160	20.441	.21802	.22058
Stddev	.00041	.056	.00091	.00029	.00010	.00057	.050	.00060	.00042
%RSD	.72030	.53598	.31504	.07260	.04139	.28138	.24319	.27703	.18855

#1	.05726	10.456	.28912	.39372	.24205	.20120	20.405	.21759	.22087
#2	.05784	10.536	.29041	.39331	.24220	.20200	20.476	.21845	.22028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20142	.21655	12.822	F 1553.4	^ *****	.24868	17.989	.23262	.24573
Stddev	.00107	.00092	.067	12.8	----	.00105	.045	.00038	.00015
%RSD	.53329	.42278	.52169	.82263	----	.42150	.24827	.16297	.05920

#1	.20218	.21590	12.775	1544.3	^ ----	.24794	18.020	.23289	.24583
#2	.20066	.21719	12.869	1562.4	^ ----	.24943	17.957	.23235	.24563

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				600.00					
Low Limit				-.50000					

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.30481	475.58	.24931	.23567	F 142.2	.21063	.21881	14.276	.20556
Stddev	.00024	.93	.00070	.00117	.2	.00068	.00294	.011	.00108
%RSD	.07834	.19559	.28170	.49489	.1089	.32207	1.3441	.07919	.52667

#1	.30498	474.92	.24881	.23484	142.1	.21111	.22089	14.268	.20479
#2	.30464	476.24	.24980	.23649	142.4	.21015	.21673	14.284	.20632

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.43808	.20553	.19925	.22256	.27673
Stddev	.00019	.00053	.00198	.00056	.00238
%RSD	.04275	.26024	.99246	.25144	.86092

#1	.43821	.20590	.20065	.22295	.27842
#2	.43795	.20515	.19785	.22216	.27505

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3627.3	6612.9	84835.	8334.6
Stddev	5.2	9.9	209.	20.0
%RSD	.14395	.14985	.24590	.24055

#1	3631.0	6619.9	84688.	8348.8
#2	3623.6	6605.9	84983.	8320.5

Sample Name: 480-47466-B-4-F MSD Acquired: 10/18/2013 14:57:38 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05933	10.727	.29913	.40266	.24950	.20658	20.823	.22290	.22510
Stddev	.00030	.028	.00271	.00116	.00040	.00063	.113	.00109	.00116
%RSD	.50084	.25767	.90637	.28701	.16033	.30562	.54265	.48701	.51644

#1	.05954	10.747	.29721	.40348	.24978	.20613	20.903	.22367	.22592
#2	.05912	10.708	.30105	.40184	.24922	.20702	20.743	.22213	.22428

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20758	.22372	12.944	F 1593.3	^ *****	.25660	18.595	.23791	.25124
Stddev	.00057	.00017	.002	18.8	----	.00006	.049	.00012	.00147
%RSD	.27663	.07680	.01596	1.1789	----	.02342	.26245	.05170	.58650

#1	.20799	.22360	12.946	1606.6	^ ----	.25656	18.629	.23799	.25020
#2	.20718	.22384	12.943	1580.1	^ ----	.25664	18.560	.23782	.25228

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				600.00					
Low Limit				-.50000					

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.30964	485.83	.25508	.24011	F 144.8	.21768	.22720	14.511	.20950
Stddev	.00211	.67	.00102	.00356	.1	.00005	.00266	.045	.00215
%RSD	.68216	.13830	.40089	1.4811	.0381	.02207	1.1715	.30895	1.0281

#1	.31114	486.31	.25580	.24262	144.9	.21764	.22532	14.542	.21103
#2	.30815	485.36	.25436	.23759	144.8	.21771	.22908	14.479	.20798

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.45050	.21104	.20180	.22971	.28555
Stddev	.00092	.00076	.00282	.00031	.00051
%RSD	.20488	.35906	1.3971	.13450	.17812

#1	.44984	.21158	.20379	.22949	.28591
#2	.45115	.21051	.19980	.22993	.28519

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3624.0	6599.3	84149.	8351.4
Stddev	9.4	18.1	177.	75.0
%RSD	.26074	.27369	.20998	.89814

#1	3617.3	6586.6	84024.	8298.4
#2	3630.6	6612.1	84274.	8404.5

Sample Name: 480-47466-B-5-B Acquired: 10/18/2013 15:00:06 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0020	.08692	.05376	.11250	.06885	-0.0006	15.166	.00009	.00269
Stddev	.00051	.00654	.00005	.00029	.00034	.00003	.017	.00002	.00005
%RSD	250.76	7.5204	.08555	.25526	.49039	44.309	.11183	17.210	1.7564

#1	-0.00056	.09154	.05373	.11230	.06861	-0.00004	15.178	.00010	.00266
#2	.00016	.08230	.05379	.11270	.06909	-0.00008	15.154	.00008	.00272

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00156	.00283	.39365	F 1956.2	^ *****	.02941	15.411	.00585	.00542
Stddev	.00014	.00020	.00563	13.7	-----	.00002	.008	.00004	.00023
%RSD	9.2609	7.0339	1.4309	.70162	-----	.06589	.05337	.68104	4.3316

#1	.00167	.00269	.39764	1946.5	^ -----	.02940	15.417	.00582	.00559
#2	.00146	.00297	.38967	1965.9	^ -----	.02942	15.405	.00588	.00526

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				600.00					
Low Limit				-50000					

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05744	343.18	.01348	.00038	F 141.9	.00060	.00246	5.4689	-0.00050
Stddev	.00004	.30	.00099	.00192	.4	.00157	.00014	.0075	.00002
%RSD	.07507	.08767	7.3728	511.80	.2616	262.75	5.6493	.13615	3.1225

#1	.05741	343.39	.01418	-0.00098	141.7	.00171	.00237	5.4637	-0.00051
#2	.05747	342.97	.01278	.00173	142.2	-0.00051	.00256	5.4742	-0.00049

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48848	.00428	-0.00202	.01056	.01234
Stddev	.00092	.00028	.00230	.00001	.00048
%RSD	.18925	6.5140	113.93	.06050	3.8767

#1	.48913	.00448	-0.00039	.01057	.01200
#2	.48782	.00408	-0.00364	.01056	.01268

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3608.5	6490.7	82823.	8367.2
Stddev	4.5	2.3	201.	3.6
%RSD	.12479	.03556	.24214	.04279

#1	3611.7	6492.3	82965.	8369.8
#2	3605.3	6489.1	82681.	8364.7

Sample Name: 480-47466-B-6-B Acquired: 10/18/2013 15:02:42 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.00141	.00199	-0.0088	-0.0008	-0.0019	-0.00134	-0.00040	-0.00002
Stddev	.00000	.00233	.00109	.00016	.00001	.00000	.00066	.00000	.00002
%RSD	1.0446	165.29	54.669	18.139	7.7284	1.1550	49.504	.08283	92.240

#1	.00024	-.00024	.00122	-.00077	-.00008	-.00018	-.00180	-.00040	-.00001
#2	.00024	.00306	.00276	-.00100	-.00009	-.00019	-.00087	-.00040	-.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	-0.00427	-0.01166	.97139	.06472	-0.00198	.00271	-0.00036	-0.00085
Stddev	.00008	.00028	.00062	.09212	.01377	.00006	.00002	.00003	.00002
%RSD	312.85	6.4957	5.3280	9.4837	21.280	2.9887	.77882	9.4496	2.5328

#1	-.00003	-.00407	-.01122	.90625	.05498	-.00203	.00270	-.00034	-.00084
#2	.00009	-.00446	-.01210	1.0365	.07446	-.00194	.00273	-.00039	-.00087

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00006	.03644	.00019	.00146	.0140	.00218	-0.00056	.02396	-0.00018
Stddev	.00013	.00946	.00014	.00020	.0009	.00023	.00052	.01025	.00005
%RSD	215.74	25.950	70.797	13.675	6.150	10.480	91.446	42.773	29.241

#1	.00003	.04313	.00010	.00132	.0134	.00234	-.00093	.01671	-.00021
#2	-.00015	.02975	.00029	.00160	.0146	.00202	-.00020	.03120	-.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00004	.00040	.00177	.00006	.00016
Stddev	.00012	.00007	.00075	.00010	.00017
%RSD	295.70	18.007	42.549	158.23	106.32

#1	-.00004	.00045	.00230	-.00001	.00027
#2	.00012	.00035	.00124	.00013	.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11044.	17955.	267910.	14438.
Stddev	6.	43.	34425.	2310.
%RSD	.05089	.23762	12.850	15.997

#1	11048.	17985.	243560.	16072.
#2	11040.	17924.	292250.	12805.

Sample Name: 480-47466-B-8-B Acquired: 10/18/2013 15:05:12 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0023	.04154	.00492	.13829	.03650	-0.0013	43.439	.00001	.00012
Stddev	.00053	.00098	.00022	.00022	.00001	.00001	.024	.00005	.00005
%RSD	234.38	2.3530	4.4948	.15669	.03020	8.4609	.05601	694.18	41.048

#1	.00015	.04223	.00508	.13844	.03650	-0.0014	43.456	.00004	.00016
#2	-.00060	.04085	.00477	.13813	.03649	-0.0013	43.422	-.00003	.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00102	.00088	.21396	168.73	98.354	.00995	12.059	.05350	.05020
Stddev	.00053	.00001	.00066	.29	1.343	.00075	.014	.00020	.00048
%RSD	51.455	1.1386	.30994	.17394	1.3649	7.5252	.11990	.37734	.95581

#1	.00140	.00088	.21349	168.94	99.303	.01048	12.049	.05336	.05054
#2	.00065	.00087	.21443	168.53	97.405	.00942	12.070	.05365	.04987

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00772	20.227	.00164	-0.00153	F 23.60	.00026	.00132	4.9867	-0.00060
Stddev	.00027	.022	.00005	.00016	.04	.00077	.00043	.0014	.00003
%RSD	3.5054	.10991	2.7808	10.404	.1629	295.32	32.403	.02790	4.1640

#1	.00753	20.243	.00167	-.00141	23.58	.00080	.00162	4.9857	-.00059
#2	.00791	20.211	.00161	-.00164	23.63	-.00028	.00102	4.9877	-.00062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.27853	.00083	.00048	.00033	.01247
Stddev	.00041	.00043	.00023	.00015	.00011
%RSD	.14658	51.176	48.781	46.235	.90513

#1	.27824	.00113	.00065	.00044	.01239
#2	.27881	.00053	.00032	.00022	.01255

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4341.9	7107.4	94952.	8401.8
Stddev	4.3	1.5	271.	8.2
%RSD	.09904	.02109	.28556	.09723

#1	4344.9	7108.5	95144.	8396.1
#2	4338.8	7106.4	94761.	8407.6

Sample Name: 480-47466-B-9-B Acquired: 10/18/2013 15:07:40 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0030	.06560	.00373	.12050	.02428	-0.0003	49.155	.00009	.00105
Stddev	.00020	.00244	.00227	.00029	.00004	.00004	.460	.00003	.00026
%RSD	66.464	3.7158	60.902	.24048	.16483	113.53	.93484	34.553	25.076

#1	-0.00044	.06732	.00212	.12071	.02431	-0.00006	48.830	.00007	.00087
#2	-0.00016	.06387	.00533	.12030	.02426	-0.00001	49.480	.00012	.00124

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00075	.00022	.64283	49.359	42.643	.00307	10.160	.09986	.09310
Stddev	.00013	.00016	.00192	.450	.825	.00127	.007	.00000	.00099
%RSD	17.602	69.853	.29812	.91070	1.9337	41.453	.07141	.00135	1.0662

#1	.00066	.00011	.64147	49.041	42.060	.00217	10.166	.09985	.09380
#2	.00084	.00034	.64419	49.677	43.226	.00397	10.155	.09986	.09239

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00400	19.419	.00148	.00033	F 22.24	.00020	-.00019	1.7582	-.00026
Stddev	.00024	.200	.00028	.00018	.03	.00064	.00083	.0262	.00012
%RSD	5.9101	1.0292	18.931	52.628	.1520	315.11	446.88	1.4891	46.131

#1	.00417	19.278	.00168	.00046	22.27	.00066	.00040	1.7397	-.00017
#2	.00383	19.561	.00128	.00021	22.22	-.00025	-.00077	1.7767	-.00034

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.26599	.00050	-.00142	.00028	.02898
Stddev	.00026	.00002	.00150	.00017	.00027
%RSD	.09797	3.6216	105.87	60.423	.94448

#1	.26617	.00049	-.00036	.00041	.02917
#2	.26581	.00052	-.00248	.00016	.02878

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4454.5	7169.7	97323.	8429.2
Stddev	1.4	.9	67.	59.4
%RSD	.03036	.01245	.06874	.70498

#1	4455.5	7170.4	97275.	8471.2
#2	4453.5	7169.1	97370.	8387.2

Sample Name: 480-47466-B-10-B Acquired: 10/18/2013 15:10:07 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00048	.06196	.00225	.15004	.02656	-0.00013	141.14	.00016	.00024
Stddev	.00029	.01479	.00127	.00001	.00003	.00000	.32	.00006	.00000
%RSD	59.599	23.862	56.511	.00900	.09677	2.1132	.22342	41.300	1.3124

#1	-0.00028	.05151	.00135	.15003	.02655	-0.00013	141.36	.00011	.00024
#2	-0.00068	.07242	.00315	.15005	.02658	-0.00013	140.92	.00020	.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01179	.00172	2.2122	53.359	49.851	.01091	16.158	.11736	.11194
Stddev	.00042	.00034	.00007	.052	.231	.00036	.007	.00018	.00109
%RSD	3.5937	19.869	.02985	.09778	.46288	3.3265	.04205	.15023	.97641

#1	.01149	.00147	2.2127	53.395	50.014	.01116	16.163	.11723	.11116
#2	.01209	.00196	2.2118	53.322	49.687	.01065	16.153	.11748	.11271

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00658	34.223	.00300	.00104	F 113.5	-0.00136	.00157	2.9947	-0.00020
Stddev	.00010	.046	.00001	.00127	.4	.00153	.00015	.0156	.00036
%RSD	1.5441	.13540	.24098	121.42	.3491	112.92	9.4099	.51976	177.91

#1	.00665	34.255	.00300	.00194	113.2	-0.00244	.00146	2.9837	.00005
#2	.00650	34.190	.00301	.00015	113.8	-0.00027	.00167	3.0057	-0.00045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.64924	.00091	.00053	.00074	.31286
Stddev	.00092	.00013	.00316	.00006	.00258
%RSD	.14108	14.827	599.85	8.5994	.82416

#1	.64989	.00100	.00276	.00079	.31104
#2	.64859	.00081	-.00171	.00070	.31468

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4267.1	6959.3	94082.	8319.3
Stddev	5.2	1.9	188.	11.8
%RSD	.12266	.02788	.19958	.14231

#1	4263.4	6960.7	94215.	8327.7
#2	4270.8	6958.0	93949.	8310.9

Sample Name: 480-47466-B-11-B Acquired: 10/18/2013 15:12:33 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02841	.07036	.01520	.18481	.30383	-0.00005	327.16	.00025	.00035
Stddev	.00048	.01277	.00119	.00069	.00023	.00002	1.45	.00010	.00019
%RSD	1.7022	18.143	7.8506	.37322	.07603	50.853	.44199	40.411	55.345

#1	.02807	.07939	.01436	.18529	.30366	-0.00007	326.14	.00032	.00049
#2	.02875	.06133	.01604	.18432	.30399	-0.00003	328.18	.00018	.00021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00470	.00486	.37629	F 4002.2	^ *****	.05176	6.3746	.01467	.01780
Stddev	.00024	.00012	.00004	6.0	----	.00051	.0011	.00005	.00007
%RSD	5.0161	2.4727	.00937	.14989	----	.97572	.01790	.31357	.36966

#1	.00454	.00478	.37631	3997.9	^ ----	.05140	6.3738	.01463	.01785
#2	.00487	.00495	.37626	4006.4	^ ----	.05212	6.3754	.01470	.01775

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				600.00					
Low Limit				-50000					

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14390	451.47	.01285	F -.00667	F 181.3	-0.00138	.00431	22.058	-0.00030
Stddev	.00019	.78	.00000	.00104	.4	.00049	.00158	.017	.00090
%RSD	.13238	.17184	.00391	15.581	.2301	35.799	36.726	.07929	302.99

#1	.14403	450.92	.01285	-.00593	181.6	-.00173	.00543	22.070	.00034
#2	.14376	452.02	.01285	-.00740	181.1	-.00103	.00319	22.046	-.00094

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-.00500	-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.73286	.00233	-.00128	.01097	.01646
Stddev	.00117	.00039	.00062	.00005	.00033
%RSD	.16004	16.642	48.761	.46606	2.0138

#1	.73369	.00260	-.00172	.01093	.01623
#2	.73203	.00205	-.00084	.01100	.01669

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3137.5	5938.7	75776.	8278.8
Stddev	1.3	4.9	88.	18.4
%RSD	.03986	.08223	.11645	.22202

#1	3136.6	5935.2	75839.	8291.8
#2	3138.4	5942.1	75714.	8265.8

Sample Name: CCV Acquired: 10/18/2013 15:15:17 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48343	24.456	.49840	.48112	.49453	.49949	24.017	.49414	.48659	.47681	.47550	24.412
Stddev	.00325	.158	.00645	.00078	.00167	.00051	.151	.00062	.00043	.00728	.00593	.085
%RSD	.67270	.64468	1.2941	.16127	.33870	.10226	.62867	.12531	.08910	1.5272	1.2477	.34927

#1	.48572	24.345	.49384	.48167	.49335	.49912	23.910	.49458	.48690	.48195	.47970	24.352
#2	.48113	24.568	.50296	.48057	.49572	.49985	24.124	.49371	.48628	.47166	.47131	24.472

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 28.425	F 19.516	.49177	23.807	.49934	.46543	.48683	24.211	.49308	.49709	25.94	.51611
Stddev	.095	.590	.00064	.087	.00213	.00376	.00039	.099	.00081	.00246	.03	.00255
%RSD	.33555	3.0255	.13025	.36750	.42642	.80786	.08030	.40796	.16370	.49450	.1090	.49371

#1	28.493	19.098	.49132	23.869	.50085	.46809	.48711	24.141	.49251	.49883	25.96	.51791
#2	28.358	19.933	.49222	23.745	.49784	.46277	.48656	24.281	.49365	.49536	25.92	.51431

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	25.000	25.000										
Range	10.000%	-10.000%										

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48988	23.911	.48285	.49886	.48183	.50163	.46496	.46870
Stddev	.00187	.102	.00007	.00017	.00063	.00102	.00580	.00563
%RSD	.38101	.42831	.01433	.03503	.13080	.20349	1.2470	1.2012

#1	.49120	23.839	.48280	.49899	.48228	.50235	.46906	.47268
#2	.48856	23.983	.48290	.49874	.48138	.50091	.46086	.46472

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4478.8	7360.1	99408.	8474.2
Stddev	4.1	5.0	554.	69.2
%RSD	.09255	.06739	.55743	.81712
#1	4481.7	7363.6	99016.	8523.2
#2	4475.8	7356.6	99799.	8425.3

Sample Name: CCB Acquired: 10/18/2013 15:17:39 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00027	.03212	.00315	.00021	-0.00004	-0.00010	-0.00472	-0.00005	-0.00013	-0.00007	-0.00091	-0.01096
Stddev	.00054	.00699	.00018	.00042	.00001	.00009	.00144	.00011	.00009	.00031	.00023	.00048
%RSD	197.28	21.777	5.5832	198.13	31.831	96.183	30.538	216.76	72.314	462.59	25.403	4.3597

#1	.00011	.02717	.00327	-0.00008	-0.00004	-0.00016	-0.00370	-0.00013	-0.00020	-0.00029	-0.00107	-0.01129
#2	-0.00066	.03707	.00302	.00051	-0.00003	-0.00003	-0.00574	.00003	-0.00006	.00015	-0.00074	-0.01062

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.4257	.03800	-0.00039	-0.00010	-0.00009	-0.00034	.00054	.03875	-0.00012	.00003	F .0112	-0.00001
Stddev	.0842	.00008	.00014	.00357	.00008	.00063	.00010	.00256	.00012	.00042	.0017	.00031
%RSD	5.9064	.20875	36.609	3510.6	96.578	185.52	19.419	6.5974	98.307	1335.6	15.62	2631.9

#1	1.4853	.03794	-0.00029	.00242	-0.00015	-0.00079	.00061	.03695	-0.00020	.00033	.0124	.00021
#2	1.3662	.03806	-0.00049	-0.00262	-0.00003	.00011	.00046	.04056	-0.00004	-0.00026	.0100	-0.00023

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	.50000										.0030	
Low Limit	-.50000										-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00169	.00285	-0.00029	-0.00003	.00007	.00115	-0.00007	.00022
Stddev	.00082	.01383	.00032	.00009	.00010	.00187	.00002	.00014
%RSD	48.534	485.20	111.02	287.73	135.44	162.48	23.825	61.381

#1	.00227	-0.00693	-0.00006	.00003	.00014	.00248	-0.00006	.00032
#2	.00111	.01263	-0.00052	-0.00010	.00000	-0.00017	-0.00008	.00013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4792.6	7426.8	101110.	8277.2
Stddev	.1	2.6	644.	41.3
%RSD	.00111	.03444	.63704	.49879
#1	4792.5	7425.0	101570.	8306.4
#2	4792.6	7428.6	100660.	8248.0

Sample Name: CCVL Acquired: 10/18/2013 15:20:06 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00295	W .27873	.01130	.01975	.00197	.00197	.48851	.00097	.00387	.00360	.00836
Stddev	.00038	.03455	.00299	.00011	.00001	.00005	.00161	.00001	.00021	.00018	.00009
%RSD	12.908	12.396	26.494	.53681	.52495	2.3229	.32875	1.4202	5.3975	4.8937	1.0710

#1	.00322	.30317	.01341	.01968	.00198	.00194	.48737	.00096	.00372	.00373	.00830
#2	.00268	.25430	.00918	.01983	.00197	.00200	.48964	.00098	.00401	.00348	.00843

Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.20000									
Range		30.000%									

Elem	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04716	F 1.3401	.42158	F .00145	.19868	F .00962	F .00815	.01047	.91731	.00967	.00528
Stddev	.00054	.0020	.00628	.00136	.00265	.00005	.00001	.00004	.01633	.00044	.00096
%RSD	1.1386	.14589	1.4906	93.925	1.3361	.47276	.12764	.36666	1.7802	4.6002	18.128

#1	.04678	1.3415	.42603	.00241	.20056	.00965	.00814	.01044	.92886	.00936	.00461
#2	.04754	1.3388	.41714	.00049	.19680	.00959	.00815	.01050	.90576	.00999	.00596

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.50000		.03000		.00300	.00300				
Range		50.000%		-50.000%		50.000%	50.000%				

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0112	.02114	.01437	.48809	.00893	.00520	.00477	.01961	.00475	F .03377
Stddev	.0010	.00152	.00189	.00190	.00007	.00030	.00021	.00059	.00000	.00013
%RSD	8.537	7.1857	13.148	.38983	.75343	5.7449	4.4192	3.0273	.02624	.37993

#1	.0105	.02006	.01570	.48944	.00898	.00499	.00492	.01919	.00475	.03386
#2	.0119	.02221	.01303	.48675	.00889	.00541	.00462	.02003	.00475	.03368

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value	.2000									.01000
Range	-50.00%									50.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4804.1	7471.3	102250.	8416.6
Stddev	8.6	.2	244.	44.4
%RSD	.17832	.00252	.23892	.52727
#1	4798.1	7471.4	102080.	8385.2
#2	4810.2	7471.2	102420.	8447.9

Sample Name: 480-47466-B-12-B Acquired: 10/18/2013 15:22:31 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00097	.95830	.00415	.55187	.04823	.00008	196.08	.00025	.00089
Stddev	.00001	.02208	.00110	.00004	.00000	.00007	.31	.00001	.00003
%RSD	1.4047	2.3037	26.428	.00731	.00478	80.360	.15808	2.1377	3.7048

#1	-0.00098	.94269	.00493	.55184	.04823	.00013	195.86	.00025	.00087
#2	-0.00096	.97391	.00337	.55190	.04823	.00004	196.29	.00026	.00091

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00285	.00388	1.5012	576.03	^ *****	.05988	51.223	.16436	.16568
Stddev	.00012	.00006	.0104	.65	----	.00007	.266	.00036	.00007
%RSD	4.0997	1.6558	.68921	.11248	----	.11818	.51857	.21864	.04263

#1	.00293	.00384	1.4939	576.49	^ -----	.05993	51.411	.16461	.16573
#2	.00277	.00393	1.5085	575.57	^ -----	.05983	51.035	.16411	.16563

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01197	239.68	.00458	-0.00284	F 313.4	-0.00266	.00587	10.323	-0.00006
Stddev	.00022	.54	.00026	.00056	.8	.00051	.00210	.020	.00012
%RSD	1.8577	.22425	5.6401	19.796	.2437	19.027	35.827	.19511	193.67

#1	.01212	240.06	.00476	-0.00324	312.9	-0.00230	.00438	10.309	-0.00014
#2	.01181	239.30	.00440	-0.00244	314.0	-0.00302	.00736	10.337	.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.64474	.02402	.00374	.00211	.00764
Stddev	.00225	.00034	.00029	.00032	.00005
%RSD	.34883	1.4271	7.7830	14.983	.62986

#1	.64633	.02378	.00394	.00188	.00760
#2	.64315	.02426	.00353	.00233	.00767

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3810.0	6644.6	87833.	8241.6
Stddev	1.3	4.6	166.	25.0
%RSD	.03317	.06911	.18860	.30389

#1	3810.9	6647.8	87716.	8259.4
#2	3809.1	6641.3	87950.	8223.9

Sample Name: 480-47466-B-12-C MS Acquired: 10/18/2013 15:24:59 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05200	11.773	.22582	.75650	.23929	.20617	203.76	.21567	.21152
Stddev	.00020	.056	.00082	.00201	.00021	.00043	1.00	.00055	.00084
%RSD	.38307	.47882	.36155	.26528	.08864	.20853	.49021	.25327	.39783

#1	.05186	11.813	.22640	.75792	.23944	.20586	204.47	.21605	.21211
#2	.05214	11.733	.22524	.75508	.23914	.20647	203.06	.21528	.21092

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19635	.20732	11.669	585.75	^ *****	.28879	60.493	.36032	.36803
Stddev	.00243	.00009	.015	3.53	----	.00008	.334	.00171	.00198
%RSD	1.2358	.04252	.12989	.60209	----	.02601	.55196	.47425	.53880

#1	.19806	.20738	11.679	588.25	^ ----	.28873	60.729	.36153	.36943
#2	.19463	.20725	11.658	583.26	^ ----	.28884	60.257	.35911	.36663

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 {41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21512	251.68	.21347	.20274	F 322.6	.21693	.22310	21.062	.20477
Stddev	.00072	.13	.00108	.00261	1.4	.00115	.00073	.134	.00159
%RSD	.33472	.05359	.50459	1.2855	.4187	.53204	.32752	.63652	.77790

#1	.21563	251.58	.21423	.20458	323.5	.21774	.22259	21.157	.20589
#2	.21461	251.77	.21271	.20090	321.6	.21611	.22362	20.967	.20364

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.85323	.22385	.20209	.19895	.20132
Stddev	.00433	.00172	.00010	.00049	.00194
%RSD	.50724	.77015	.04999	.24732	.96144

#1	.85017	.22263	.20202	.19930	.20269
#2	.85629	.22507	.20216	.19860	.19995

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3770.3	6642.4	88798.	8285.7
Stddev	9.2	9.4	487.	12.9
%RSD	.24338	.14093	.54792	.15543

#1	3763.8	6635.8	88454.	8276.6
#2	3776.8	6649.0	89142.	8294.8

Sample Name: 480-47466-B-12-D MSD Acquired: 10/18/2013 15:27:21 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05276	11.811	.22441	.75624	.23842	.20607	206.55	.21553	.21220
Stddev	.00016	.048	.00157	.00208	.00045	.00019	1.85	.00042	.00021
%RSD	.29927	.40422	.70006	.27536	.18833	.09237	.89493	.19676	.09995

#1	.05287	11.845	.22552	.75477	.23873	.20621	207.86	.21583	.21235
#2	.05265	11.777	.22330	.75771	.23810	.20594	205.25	.21523	.21205

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19816	.20781	11.688	590.29	^ *****	.28990	61.183	.36453	.36894
Stddev	.00114	.00008	.094	2.38	----	.00042	.010	.00008	.00114
%RSD	.57506	.03673	.80724	.40381	----	.14414	.01673	.02184	.30883

#1	.19896	.20786	11.755	591.98	^ ----	.29019	61.176	.36448	.36813
#2	.19735	.20776	11.621	588.61	^ ----	.28960	61.191	.36459	.36974

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21493	253.03	.21449	.20467	F 321.9	.21715	.22037	21.461	.20625
Stddev	.00026	.12	.00031	.00128	.1	.00164	.00003	.188	.00113
%RSD	.12031	.04923	.14584	.62771	.0432	.75404	.01531	.87719	.54554

#1	.21511	253.12	.21427	.20558	321.8	.21599	.22035	21.594	.20705
#2	.21475	252.94	.21471	.20376	322.0	.21831	.22040	21.328	.20546

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.85260	.22159	.19986	.20074	.20375
Stddev	.00039	.00087	.00036	.00078	.00042
%RSD	.04521	.39244	.17815	.38914	.20699

#1	.85287	.22221	.20011	.20130	.20405
#2	.85232	.22098	.19961	.20019	.20345

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3765.1	6652.5	88233.	8193.4
Stddev	5.9	1.5	241.	70.6
%RSD	.15591	.02183	.27369	.86227

#1	3769.2	6653.5	88062.	8143.5
#2	3760.9	6651.5	88403.	8243.4

Sample Name: 480-47466-B-13-D Acquired: 10/18/2013 15:29:44 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00067	.06589	.01296	.11883	.02733	-0.00008	8.2494	.00005	.00072
Stddev	.00011	.00612	.00112	.00009	.00001	.00000	.0304	.00005	.00026
%RSD	17.088	9.2891	8.6711	.07177	.04626	1.3274	.36845	90.062	35.538

#1	-0.00075	.06156	.01376	.11889	.02733	-0.00008	8.2709	.00009	.00090
#2	-0.00059	.07021	.01217	.11877	.02732	-0.00008	8.2279	.00002	.00054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00295	.00262	.16133	F 4596.4	^ *****	.02985	2.6127	.01318	.01606
Stddev	.00017	.00047	.00381	60.5	----	.00036	.0159	.00001	.00062
%RSD	5.8997	18.015	2.3618	1.3159	----	1.2130	.60986	.05642	3.8855

#1	.00282	.00295	.15864	4639.1	^ ----	.03010	2.6239	.01318	.01650
#2	.00307	.00229	.16403	4553.6	^ ----	.02959	2.6014	.01319	.01562

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				600.00					
Low Limit				-50000					

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.33455	449.48	.01029	-0.00253	F 191.6	-0.00308	.00300	14.866	-0.00036
Stddev	.00073	1.30	.00067	.00048	.2	.00007	.00029	.031	.00049
%RSD	.21872	.28964	6.5258	19.011	.1120	2.2967	9.5081	.20845	136.63

#1	.33403	448.56	.00981	-0.00287	191.4	-0.00303	.00320	14.845	-0.00070
#2	.33507	450.40	.01076	-0.00219	191.7	-0.00313	.00280	14.888	-0.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.11289	.00166	-0.00116	.00940	.00610
Stddev	.00008	.00014	.00084	.00028	.00008
%RSD	.07460	8.3717	72.386	2.9488	1.3072

#1	.11283	.00175	-0.00175	.00960	.00616
#2	.11295	.00156	-0.00057	.00920	.00605

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3186.4	6010.5	75165.	8361.7
Stddev	.7	16.4	10.	24.6
%RSD	.02110	.27357	.01285	.29473

#1	3186.9	6022.2	75172.	8344.2
#2	3185.9	5998.9	75158.	8379.1

Sample Name: 480-47466-B-14-B Acquired: 10/18/2013 15:32:20 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00549	.43904	.40717	.15817	.01354	.00002	6.3472	.00030	.00092
Stddev	.00003	.00758	.00012	.00006	.00001	.00001	.0037	.00001	.00004
%RSD	.51253	1.7256	.02903	.03541	.07630	57.961	.05749	2.3906	4.0768

#1	.00547	.44440	.40709	.15821	.01354	.00003	6.3446	.00030	.00089
#2	.00551	.43369	.40726	.15813	.01353	.00001	6.3498	.00029	.00094

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00496	.00799	2.0113	F 2855.1	^ *****	.02196	.77183	.04224	.04701
Stddev	.00012	.00007	.0101	21.9	----	.00059	.00110	.00007	.00036
%RSD	2.4021	.82768	.50264	.76580	----	2.6638	.14231	.15701	.77644

#1	.00488	.00794	2.0042	2870.6	^ ----	.02238	.77106	.04229	.04675
#2	.00505	.00804	2.0185	2839.6	^ ----	.02155	.77261	.04220	.04727

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				600.00					
Low Limit				-.50000					

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.13622	570.72	.01691	.00818	F 186.2	.00396	.01025	24.225	-.00001
Stddev	.00015	1.20	.00024	.00032	.8	.00158	.00049	.019	.00010
%RSD	.10880	.21071	1.4357	3.9628	.4097	39.886	4.8281	.07835	897.62

#1	.13633	569.87	.01674	.00795	185.7	.00285	.00990	24.238	.00006
#2	.13612	571.57	.01708	.00841	186.7	.00508	.01060	24.211	-.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.21104	.01191	.00060	.05034	.03919
Stddev	.00022	.00035	.00199	.00015	.00134
%RSD	.10188	2.9229	333.41	.29399	3.4182

#1	.21119	.01167	-.00081	.05023	.03824
#2	.21089	.01216	.00200	.05044	.04014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3404.6	6279.6	79661.	8398.7
Stddev	5.7	18.4	109.	16.2
%RSD	.16886	.29253	.13666	.19331

#1	3408.7	6292.6	79738.	8410.2
#2	3400.6	6266.6	79584.	8387.2

Sample Name: 480-47460-J-2-C Acquired: 10/18/2013 15:34:56 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00014	.17442	.00273	.05348	.02580	-0.00004	39.488	.00005	-0.00002
Stddev	.00026	.01917	.00047	.00010	.00012	.00001	.158	.00000	.00011
%RSD	183.62	10.992	17.355	.18234	.44802	26.432	.40050	5.1907	490.92

#1	.00004	.16086	.00307	.05355	.02588	-0.00003	39.376	.00005	-0.00010
#2	-.00032	.18797	.00240	.05341	.02572	-0.00005	39.600	.00005	.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00239	.00033	.19428	6.9059	2.4546	.00296	8.5424	.02608	.02363
Stddev	.00029	.00028	.00185	.2262	.0535	.00071	.0147	.00008	.00015
%RSD	11.943	84.460	.95147	3.2750	2.1781	24.037	.17234	.31527	.62720

#1	.00219	.00013	.19297	7.0658	2.4168	.00246	8.5319	.02614	.02373
#2	.00259	.00053	.19558	6.7459	2.4924	.00346	8.5528	.02602	.02353

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00285	21.423	.00083	-0.00018	F 18.21	.00144	-0.00262	1.7007	-0.00058
Stddev	.00001	.044	.00028	.00039	.03	.00169	.00021	.0033	.00011
%RSD	.29227	.20691	33.595	220.08	.1523	117.42	8.1133	.19214	19.064

#1	.00285	21.455	.00063	-0.00045	18.23	.00264	-0.00277	1.6984	-0.00050
#2	.00284	21.392	.00103	.00010	18.19	.00024	-0.00247	1.7031	-0.00066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.18898	.00255	.00054	.00061	.00503
Stddev	.00094	.00028	.00035	.00010	.00008
%RSD	.49682	10.976	66.142	16.844	1.5127

#1	.18832	.00274	.00079	.00068	.00508
#2	.18965	.00235	.00029	.00054	.00497

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4518.5	7180.7	98603.	8469.3
Stddev	5.6	1.6	295.	32.8
%RSD	.12420	.02222	.29939	.38707

#1	4522.5	7179.6	98812.	8492.5
#2	4514.6	7181.9	98394.	8446.1

Sample Name: 480-47454-E-1-B Acquired: 10/18/2013 15:37:18 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	.47866	.00266	.40547	.05022	-.00001	45.861	.00028	.00015
Stddev	.00033	.00002	.00188	.00090	.00002	.00004	.168	.00012	.00011
%RSD	108.99	.00398	70.543	.22287	.03592	322.24	.36725	41.866	69.939

#1	.00007	.47865	.00399	.40483	.05023	.00002	45.742	.00019	.00023
#2	.00054	.47867	.00133	.40611	.05020	-.00004	45.980	.00036	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00252	.04074	.84626	7.6506	5.8642	.01567	10.595	.02179	.01916
Stddev	.00016	.00023	.00474	.0834	.0181	.00006	.018	.00010	.00022
%RSD	6.4988	.57194	.56064	1.0897	.30950	.40537	.17151	.46802	1.1444

#1	.00263	.04091	.84962	7.7095	5.8513	.01571	10.582	.02172	.01932
#2	.00240	.04058	.84291	7.5916	5.8770	.01562	10.607	.02187	.01901

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00621	19.233	.00570	.03840	F 32.83	.00228	.00120	2.8306	.00031
Stddev	.00006	.026	.00053	.00071	.07	.00136	.00030	.0134	.00036
%RSD	.96547	.13513	9.2851	1.8497	.2163	59.400	25.314	.47462	116.35

#1	.00616	19.252	.00532	.03789	32.88	.00324	.00099	2.8211	.00057
#2	.00625	19.215	.00607	.03890	32.78	.00132	.00142	2.8401	.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.33177	.00872	.00246	.00125	.08254
Stddev	.00109	.00020	.00274	.00006	.00042
%RSD	.32878	2.2872	111.23	4.5790	.51060

#1	.33254	.00886	.00053	.00121	.08284
#2	.33100	.00857	.00440	.00129	.08224

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4505.2	7143.1	97711.	8300.5
Stddev	1.3	7.4	427.	.6
%RSD	.02959	.10328	.43665	.00669

#1	4504.2	7148.4	98012.	8300.1
#2	4506.1	7137.9	97409.	8300.9

Sample Name: MB 480-144665/17-B Acquired: 10/18/2013 15:39:44 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	.04548	.00342	.00320	.00001	-.00005	.02898	-.00005	-.00009
Stddev	.00018	.01575	.00139	.00004	.00001	.00011	.00220	.00001	.00002
%RSD	103.91	34.637	40.601	1.2655	85.027	229.08	7.5924	28.494	27.595

#1	.00029	.03434	.00441	.00323	.00000	.00003	.03053	-.00004	-.00007
#2	.00004	.05662	.00244	.00317	.00001	-.00012	.02742	-.00006	-.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	-.00069	-.00614	F 1.1181	.04057	-.00057	.00099	.00002	-.00069
Stddev	.00006	.00003	.00271	.0565	.00023	.00004	.00055	.00002	.00038
%RSD	73.757	4.6522	44.108	5.0563	.56781	6.9299	55.155	79.609	54.792

#1	.00004	-.00067	-.00805	1.1581	.04041	-.00054	.00061	.00004	-.00096
#2	.00013	-.00072	-.00422	1.0781	.04073	-.00060	.00138	.00001	-.00042

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.50000					
Low Limit				-.50000					

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	.07753	-.00025	-.00055	.0209	.00068	.00064	.00808	-.00031
Stddev	.00006	.00527	.00009	.00001	.0014	.00003	.00274	.00723	.00067
%RSD	52.978	6.7964	34.638	1.9996	6.858	4.1383	430.31	89.524	216.87

#1	.00008	.08125	-.00032	-.00055	.0199	.00066	.00257	.00296	.00016
#2	.00017	.07380	-.00019	-.00054	.0219	.00070	-.00130	.01319	-.00078

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00020	.00020	.00154	.00018	.00147
Stddev	.00013	.00042	.00051	.00001	.00014
%RSD	67.369	205.44	33.275	5.9395	9.3699

#1	.00010	.00050	.00190	.00018	.00138
#2	.00029	-.00009	.00118	.00019	.00157

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4830.0	7461.6	101780.	8280.4
Stddev	3.4	.4	475.	4.1
%RSD	.07124	.00473	.46710	.04915

#1	4832.4	7461.9	102120.	8277.5
#2	4827.6	7461.4	101450.	8283.2

Sample Name: LCS 480-144665/18-B Acquired: 10/18/2013 15:42:08 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04864	10.081	.20165	.20356	.20084	.20515	9.7261	.20065	.19723
Stddev	.00062	.005	.00237	.00013	.00014	.00047	.0085	.00011	.00016
%RSD	1.2834	.05370	1.1764	.06380	.07061	.23121	.08765	.05655	.07885

#1	.04820	10.085	.20333	.20365	.20094	.20481	9.7322	.20057	.19712
#2	.04908	10.077	.19997	.20347	.20074	.20548	9.7201	.20073	.19734

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19553	.19396	10.081	10.458	9.4409	.19753	10.081	.20226	.18393
Stddev	.00174	.00055	.016	.103	.2839	.00061	.042	.00118	.00031
%RSD	.88995	.28175	.16349	.98152	3.0072	.31045	.41897	.58267	.16866

#1	.19676	.19435	10.070	10.530	9.6417	.19710	10.111	.20310	.18371
#2	.19430	.19358	10.093	10.385	9.2402	.19797	10.052	.20143	.18415

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 {57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20187	9.6904	.19796	.19999	10.64	.20635	.20040	9.7881	.18930
Stddev	.00032	.0036	.00059	.00126	.01	.00140	.00155	.0153	.00006
%RSD	.15925	.03734	.29567	.63011	.1002	.67899	.77135	.15654	.03242

#1	.20209	9.6929	.19838	.19910	10.63	.20536	.20149	9.7989	.18925
#2	.20164	9.6878	.19755	.20088	10.64	.20734	.19931	9.7772	.18934

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20329	.18919	.20411	.19196	.18992
Stddev	.00002	.00024	.00040	.00098	.00189
%RSD	.01099	.12528	.19680	.51275	.99670

#1	.20330	.18903	.20383	.19266	.19126
#2	.20327	.18936	.20440	.19127	.18858

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4608.8	7370.7	99774.	8365.2
Stddev	.4	.7	397.	3.4
%RSD	.00789	.00920	.39762	.04054

#1	4608.5	7371.2	99493.	8362.8
#2	4609.0	7370.2	100050.	8367.6

Sample Name: CCV Acquired: 10/18/2013 15:44:29 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48494	24.293	.49640	.48042	.49397	.50152	23.972	.49498	.48832	.48068	.47793	24.494
Stddev	.00082	.005	.00357	.00213	.00076	.00051	.006	.00019	.00131	.00195	.00085	.056
%RSD	.16924	.02075	.71995	.44300	.15380	.10078	.02644	.03760	.26808	.40524	.17708	.22739

#1	.48436	24.296	.49892	.48193	.49451	.50116	23.977	.49512	.48925	.48206	.47853	24.455
#2	.48552	24.289	.49387	.47892	.49343	.50187	23.968	.49485	.48739	.47930	.47733	24.533

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.142	24.957	.48839	23.947	.50142	.46689	.48787	23.938	.49709	.50041	26.15	.51987
Stddev	.031	.249	.00055	.118	.00213	.00038	.00057	.043	.00129	.00022	.06	.00096
%RSD	.12474	.99887	.11288	.49102	.42430	.08182	.11582	.17943	.25941	.04366	.2342	.18394

#1	25.120	25.134	.48878	24.030	.50292	.46662	.48747	23.968	.49800	.50056	26.11	.51919
#2	25.164	24.781	.48800	23.864	.49991	.46716	.48827	23.908	.49618	.50025	26.20	.52055

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48800	23.830	.48212	.50039	.48411	.50737	.46768	.47149
Stddev	.00364	.112	.00126	.00009	.00114	.00068	.00050	.00327
%RSD	.74583	.46865	.26170	.01705	.23479	.13453	.10782	.69288

#1	.49057	23.909	.48302	.50033	.48491	.50785	.46804	.47380
#2	.48543	23.751	.48123	.50045	.48330	.50689	.46733	.46918

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4456.6	7344.1	98750.	8414.7
Stddev	4.0	4.4	206.	13.8
%RSD	.09050	.06008	.20830	.16428
#1	4459.4	7347.3	98604.	8404.9
#2	4453.7	7341.0	98895.	8424.5

Sample Name: CCB Acquired: 10/18/2013 15:46:50 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00027	.01553	.00146	.00047	-0.00005	-0.00004	-0.00396	-0.00002	-0.00014	-0.00004	-0.00116	-0.00219
Stddev	.00020	.02387	.00050	.00011	.00000	.00005	.00074	.00009	.00012	.00015	.00008	.00263
%RSD	74.866	153.78	34.078	22.844	1.3260	117.01	18.638	497.16	90.332	387.04	6.6722	120.36

#1	-0.00013	.03241	.00181	.00039	-0.00005	-0.00007	-0.00344	-0.00008	-0.00005	.00007	-0.00121	-0.00405
#2	-0.00041	-0.00136	.00111	.00054	-0.00005	-0.00001	-0.00448	.00004	-0.00022	-0.00015	-0.00110	-0.00033

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47583	.02920	-0.00009	.00027	-0.00003	.00026	.00026	.02844	-0.00029	.00084	F .0122	-0.00005
Stddev	.01820	.00569	.00009	.00284	.00001	.00010	.00027	.00989	.00002	.00054	.0018	.00275
%RSD	3.8251	19.473	101.21	1064.9	42.298	37.650	104.67	34.757	7.2762	64.446	15.04	6089.4

#1	.46296	.03322	-0.00015	-0.00174	-0.00005	.00032	.00007	.03543	-0.00030	.00046	.0109	.00190
#2	.48870	.02518	-0.00003	.00227	-0.00002	.00019	.00045	.02145	-0.00027	.00122	.0135	-0.00199

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-0.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00078	-0.00197	-0.00032	.00005	.00014	-0.00101	-0.00013	.00027
Stddev	.00089	.02011	.00012	.00008	.00012	.00273	.00025	.00033
%RSD	114.47	1021.9	36.429	180.27	79.839	269.86	197.95	119.31

#1	.00141	.01225	-0.00024	.00011	.00006	-0.00294	-0.00030	.00051
#2	.00015	-0.01619	-0.00041	-0.00001	.00023	.00092	.00005	.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4781.4	7396.0	101650.	8289.4
Stddev	.4	2.6	111.	22.4
%RSD	.00772	.03565	.10897	.27004
#1	4781.1	7394.2	101570.	8305.2
#2	4781.7	7397.9	101730.	8273.6

Sample Name: CCVL Acquired: 10/18/2013 15:49:17 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00220	.24644	.01094	.01979	.00200	.00202	.50070	.00090	.00381	.00406	.00880	.04220
Stddev	.00011	.02486	.00181	.00022	.00003	.00009	.00489	.00013	.00008	.00002	.00023	.00008
%RSD	5.0697	10.089	16.520	1.0981	1.4322	4.3567	.97740	14.539	2.1387	.54640	2.5920	.17773

#1	.00212	.22886	.00967	.01995	.00198	.00196	.50416	.00080	.00375	.00404	.00864	.04226
#2	.00227	.26402	.01222	.01964	.00202	.00208	.49724	.00099	.00386	.00407	.00897	.04215

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .83012	.43749	F .00277	.20100	F .00559	F .00454	.01027	.94326	.00976	.00464	F .0122	.02009
Stddev	.05547	.00659	.00002	.00243	.00009	.00033	.00003	.01173	.00019	.00048	.0004	.00121
%RSD	6.6825	1.5059	.83735	1.2107	1.6424	7.2468	.25742	1.2431	1.9656	10.263	2.886	6.0210

#1	.86934	.43283	.00275	.19928	.00552	.00431	.01029	.95155	.00989	.00430	.0120	.02095
#2	.79089	.44215	.00279	.20272	.00565	.00478	.01025	.93497	.00962	.00498	.0125	.01924

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	.50000		.03000		.00300	.00300					.2000	
Range	50.000%		-50.000%		50.000%	50.000%					-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01790	.50523	.00912	.00504	.00464	.02092	.00504	.00955
Stddev	.00055	.00023	.00025	.00004	.00001	.00112	.00016	.00027
%RSD	3.0617	.04538	2.7619	.80101	.23294	5.3353	3.2754	2.8252

#1	.01752	.50540	.00929	.00507	.00465	.02171	.00492	.00975
#2	.01829	.50507	.00894	.00501	.00464	.02013	.00515	.00936

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4793.1	7448.5	101430.	8251.8
Stddev	2.4	10.5	268.	34.3
%RSD	.05088	.14067	.26452	.41600
#1	4794.8	7455.9	101620.	8276.1
#2	4791.3	7441.1	101240.	8227.6

Sample Name: 480-47960-B-1-A Acquired: 10/18/2013 15:51:41 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00014	.04808	.00004	.00274	.00005	-.00010	.03491	.00000	-.00008
Stddev	.00018	.00528	.00061	.00011	.00001	.00006	.00053	.00005	.00010
%RSD	126.54	10.980	1613.3	4.0438	15.494	59.344	1.5167	1811.2	129.11

#1	.00001	.04435	.00047	.00282	.00005	-.00014	.03454	.00004	-.00014
#2	.00027	.05181	-.00040	.00266	.00004	-.00006	.03529	-.00003	-.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00015	-.00053	-.00564	.33521	.01985	-.00043	-.00027	.00061	.00003
Stddev	.00007	.00019	.00304	.03954	.00045	.00012	.00116	.00001	.00032
%RSD	46.846	36.278	53.934	11.794	2.2478	28.912	428.16	1.8246	967.03

#1	-.00020	-.00039	-.00349	.30725	.02016	-.00051	-.00109	.00060	.00026
#2	-.00010	-.00067	-.00779	.36317	.01953	-.00034	.00055	.00061	-.00019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	.04154	-.00028	.00084	.0199	.00022	.00178	-.00233	-.00029
Stddev	.00002	.00098	.00035	.00124	.0006	.00119	.00249	.00544	.00001
%RSD	39.107	2.3595	124.75	147.49	2.782	546.76	139.66	233.35	3.5290

#1	.00004	.04085	-.00053	-.00004	.0195	.00106	.00002	-.00618	-.00029
#2	.00007	.04223	-.00003	.00172	.0203	-.00063	.00354	.00152	-.00030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00021	-.00000	.00161	.00009	.00218
Stddev	.00017	.00016	.00118	.00015	.00038
%RSD	80.141	5986.6	72.946	179.48	17.224

#1	.00009	-.00011	.00078	-.00002	.00244
#2	.00033	.00011	.00245	.00020	.00191

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4822.9	7457.0	101660.	8282.0
Stddev	9.5	15.5	245.	4.0
%RSD	.19629	.20756	.24131	.04810

#1	4829.6	7467.9	101830.	8279.2
#2	4816.2	7446.0	101480.	8284.9

Sample Name: 480-47960-B-2-A Acquired: 10/18/2013 15:54:06 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	.04386	.00379	.06434	.09354	-.00008	35.038	.00001	-.00000
Stddev	.00046	.00748	.00148	.00021	.00015	.00000	.058	.00019	.00000
%RSD	930.38	17.054	39.051	.33325	.15793	5.5688	.16538	2933.5	5.8833

#1	-.00028	.03857	.00275	.06449	.09364	-.00008	35.079	.00014	-.00000
#2	.00038	.04915	.00484	.06419	.09343	-.00008	34.997	-.00013	-.00000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	-.00054	.08557	1.8631	1.7962	.00137	14.083	.03943	.03566
Stddev	.00037	.00011	.00156	.0380	.0141	.00005	.008	.00015	.00093
%RSD	4873.3	20.320	1.8188	2.0393	.78266	3.3994	.05407	.36916	2.5944

#1	-.00027	-.00062	.08447	1.8362	1.8061	.00134	14.088	.03933	.03631
#2	.00025	-.00046	.08667	1.8899	1.7863	.00141	14.077	.03954	.03500

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00105	7.0608	.00015	-.00224	4.415	-.00027	-.00071	8.7372	-.00027
Stddev	.00023	.0200	.00067	.00051	.013	.00203	.00281	.0181	.00002
%RSD	21.601	.28272	443.12	23.010	.2943	754.07	395.12	.20775	7.0434

#1	.00089	7.0749	-.00032	-.00187	4.424	-.00170	-.00270	8.7243	-.00029
#2	.00121	7.0467	.00062	-.00260	4.406	.00117	.00128	8.7500	-.00026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.29588	-.00002	.00095	.00004	.00299
Stddev	.00003	.00010	.00124	.00037	.00027
%RSD	.01058	544.15	130.19	1040.1	9.1215

#1	.29586	-.00009	.00182	-.00023	.00319
#2	.29590	.00005	.00008	.00030	.00280

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4569.2	7260.7	99414.	8374.4
Stddev	3.1	.0	22.	7.0
%RSD	.06763	.00001	.02217	.08352

#1	4567.0	7260.7	99399.	8379.3
#2	4571.4	7260.7	99430.	8369.5

Sample Name: 480-47960-B-3-A Acquired: 10/18/2013 15:56:27 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00049	.04961	.00433	.03117	.10665	-0.00004	53.829	.00003	-0.00022
Stddev	.00060	.00726	.00087	.00044	.00000	.00014	.106	.00002	.00013
%RSD	121.40	14.639	20.150	1.3969	.00083	340.18	.19659	81.174	56.110

#1	-0.00007	.04447	.00495	.03148	.10665	-0.00014	53.754	.00004	-0.00014
#2	-0.00092	.05475	.00372	.03086	.10665	.00006	53.904	.00001	-0.00031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00096	-0.00028	.06426	1.6997	1.7055	.00185	24.068	.05178	.04741
Stddev	.00021	.00027	.00084	.0211	.0010	.00021	.047	.00006	.00041
%RSD	22.184	96.626	1.3055	1.2424	.05974	11.491	.19444	.11496	.86919

#1	.00081	-0.00009	.06366	1.6848	1.7048	.00200	24.102	.05182	.04770
#2	.00111	-0.00047	.06485	1.7146	1.7063	.00170	24.035	.05174	.04712

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	3.6562	.00102	-0.00314	8.560	-0.00069	-0.00088	7.2359	-0.00002
Stddev	.00022	.0155	.00022	.00109	.001	.00022	.00174	.0725	.00024
%RSD	62.462	.42250	21.752	34.734	.0072	31.780	197.05	1.0019	1106.6

#1	.00020	3.6671	.00086	-0.00237	8.560	-0.00053	-0.00212	7.1846	-0.00019
#2	.00051	3.6453	.00118	-0.00392	8.559	-0.00084	.00035	7.2871	.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.15431	.00030	-0.00049	.00007	.00172
Stddev	.00051	.00007	.00139	.00031	.00031
%RSD	.32964	24.333	284.37	452.92	18.085

#1	.15395	.00035	-0.00148	.00028	.00194
#2	.15467	.00025	.00050	-0.00015	.00150

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4504.2	7199.5	96990.	8223.3
Stddev	2.9	4.1	106.	29.3
%RSD	.06533	.05709	.10938	.35628

#1	4506.2	7202.5	96915.	8244.0
#2	4502.1	7196.6	97065.	8202.6

Sample Name: 480-47960-B-3-A SD@5 Acquired: 10/18/2013 15:58:49 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.07098	.00216	.00661	.02157	-0.00006	10.818	.00002	-0.00010
Stddev	.00083	.00833	.00152	.00005	.00002	.00009	.092	.00009	.00006
%RSD	985.40	11.741	70.495	.75355	.08700	163.92	.84908	629.00	65.970

#1	.00067	.07687	.00323	.00657	.02156	.00001	10.883	-0.00005	-0.00005
#2	-.00050	.06508	.00108	.00664	.02158	-0.00012	10.753	.00008	-0.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00027	-0.00068	.00577	.51407	.29268	-0.00101	4.7764	.01032	.00922
Stddev	.00004	.00002	.00005	.05342	.00198	.00081	.0105	.00004	.00043
%RSD	14.649	2.2332	.79306	10.392	.67617	80.081	.21893	.40176	4.6302

#1	-0.00024	-0.00069	.00580	.47629	.29408	-0.00044	4.7690	.01029	.00952
#2	-0.00030	-0.00067	.00574	.55184	.29128	-0.00158	4.7838	.01035	.00892

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00018	.71250	.00001	-0.00078	1.676	.00002	.00110	1.4247	-0.00040
Stddev	.00011	.00100	.00019	.00064	.006	.00012	.00024	.0045	.00021
%RSD	62.198	.13966	1569.1	82.288	.3359	608.23	21.922	.31584	51.041

#1	.00010	.71320	-0.00012	-0.00033	1.680	.00010	.00127	1.4279	-0.00055
#2	.00026	.71179	.00015	-0.00123	1.672	-0.00007	.00093	1.4215	-0.00026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.03098	.00001	.00059	.00010	.00032
Stddev	.00001	.00004	.00375	.00007	.00029
%RSD	.02287	381.45	638.38	71.485	89.700

#1	.03099	-0.00002	-0.00206	.00015	.00053
#2	.03098	.00004	.00324	.00005	.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4716.0	7370.9	99750.	8244.3
Stddev	.8	3.7	154.	60.8
%RSD	.01758	.05027	.15406	.73688

#1	4716.6	7368.2	99859.	8201.4
#2	4715.4	7373.5	99642.	8287.3

Sample Name: 480-47960-B-3-A PDS Acquired: 10/18/2013 16:01:12 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04993	10.584	.20819	.23900	.30995	.21181	62.303	.20789	.20367
Stddev	.00009	.011	.00122	.00055	.00080	.00031	.093	.00065	.00040
%RSD	.18065	.10194	.58487	.22912	.25740	.14836	.14930	.31054	.19515

#1	.04986	10.591	.20905	.23861	.30938	.21203	62.369	.20835	.20395
#2	.04999	10.576	.20733	.23938	.31051	.21159	62.237	.20743	.20339

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20006	.19994	10.413	12.139	13.375	.21608	33.588	.25458	.23667
Stddev	.00022	.00018	.021	.007	.030	.00097	.006	.00034	.00132
%RSD	.11032	.09142	.20444	.06161	.22170	.45048	.01741	.13285	.55680

#1	.19990	.19981	10.428	12.144	13.396	.21539	33.584	.25434	.23760
#2	.20022	.20007	10.398	12.134	13.354	.21677	33.592	.25482	.23574

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20747	13.889	.20659	.20680	8.432	.21105	.20608	17.357	.20176
Stddev	.00079	.009	.00063	.00021	.035	.00049	.00585	.039	.00091
%RSD	.38265	.06215	.30385	.10207	.4137	.23004	2.8371	.22212	.45289

#1	.20803	13.883	.20614	.20665	8.407	.21140	.20195	17.384	.20240
#2	.20691	13.895	.20703	.20695	8.457	.21071	.21022	17.330	.20111

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.36098	.19299	.20889	.19774	.19413
Stddev	.00121	.00029	.00086	.00059	.00003
%RSD	.33602	.14997	.41187	.30082	.01632

#1	.36183	.19279	.20828	.19732	.19411
#2	.36012	.19320	.20950	.19816	.19415

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4375.7	7214.1	97409.	8239.7
Stddev	2.9	2.6	140.	9.3
%RSD	.06604	.03638	.14399	.11282

#1	4377.7	7215.9	97310.	8233.2
#2	4373.6	7212.2	97509.	8246.3

Sample Name: 480-47960-B-3-B MS Acquired: 10/18/2013 16:03:32 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04799	9.8920	.20761	.23254	.29947	.20797	62.222	.20409	.19875
Stddev	.00039	.0683	.00029	.00010	.00051	.00010	.177	.00047	.00045
%RSD	.80581	.69008	.13771	.04365	.17023	.04978	.28400	.23089	.22535

#1	.04771	9.8437	.20741	.23247	.29911	.20804	62.097	.20375	.19844
#2	.04826	9.9403	.20781	.23261	.29983	.20789	62.347	.20442	.19907

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19121	.19293	10.185	11.390	12.653	.20114	33.900	.25101	.23136
Stddev	.00032	.00078	.002	.012	.005	.00070	.002	.00032	.00004
%RSD	.16511	.40405	.01610	.10757	.03858	.35000	.00529	.12820	.01546

#1	.19144	.19238	10.184	11.381	12.650	.20164	33.901	.25078	.23133
#2	.19099	.19348	10.186	11.398	12.657	.20064	33.898	.25124	.23138

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 {57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20350	13.178	.20026	.19987	F 19.42	.20772	.20357	16.722	.19298
Stddev	.00004	.034	.00177	.00155	.04	.00177	.00078	.045	.00056
%RSD	.02188	.25950	.88529	.77620	.1881	.85104	.38521	.26622	.29248

#1	.20353	13.154	.20151	.20097	19.39	.20897	.20301	16.690	.19258
#2	.20347	13.202	.19900	.19877	19.44	.20647	.20412	16.753	.19338

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.35982	.18989	.20464	.18933	.18529
Stddev	.00153	.00016	.00129	.00052	.00088
%RSD	.42526	.08298	.62953	.27687	.47429

#1	.36090	.18977	.20373	.18896	.18467
#2	.35873	.19000	.20555	.18970	.18591

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4374.1	7175.4	97996.	8340.0
Stddev	.0	6.2	66.	4.1
%RSD	.00004	.08630	.06708	.04926

#1	4374.1	7179.8	97949.	8342.9
#2	4374.1	7171.0	98042.	8337.1

Sample Name: 480-47960-B-3-C MSD Acquired: 10/18/2013 16:05:51 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04962	10.180	.21232	.23798	.30825	.20993	63.842	.20644	.20193
Stddev	.00010	.037	.00417	.00045	.00000	.00019	.166	.00007	.00056
%RSD	.19893	.36470	1.9639	.18825	.00104	.09275	.26033	.03451	.27595

#1	.04969	10.154	.20938	.23766	.30825	.20979	63.960	.20649	.20233
#2	.04955	10.206	.21527	.23830	.30825	.21007	63.725	.20639	.20154

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19614	.19706	10.275	11.810	13.125	.20628	34.574	.25443	.23688
Stddev	.00012	.00029	.027	.002	.049	.00182	.144	.00050	.00096
%RSD	.06270	.14840	.26325	.01334	.37048	.88047	.41764	.19822	.40431

#1	.19623	.19686	10.295	11.809	13.160	.20500	34.472	.25407	.23620
#2	.19605	.19727	10.256	11.811	13.091	.20756	34.676	.25478	.23755

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20640	13.621	.20336	.20165	F 19.84	.21145	.20723	16.933	.19617
Stddev	.00067	.059	.00032	.00124	.01	.00195	.00406	.019	.00048
%RSD	.32529	.43432	.15537	.61486	.0506	.92452	1.9580	.11500	.24667

#1	.20687	13.579	.20358	.20253	19.84	.21007	.21010	16.919	.19651
#2	.20592	13.663	.20314	.20077	19.85	.21283	.20436	16.947	.19582

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.36762	.19268	.21087	.19407	.18983
Stddev	.00045	.00077	.00064	.00090	.00101
%RSD	.12205	.39931	.30336	.46371	.53017

#1	.36730	.19214	.21042	.19344	.18912
#2	.36793	.19322	.21132	.19471	.19054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4365.3	7173.4	97582.	8341.7
Stddev	1.2	6.3	324.	18.7
%RSD	.02771	.08837	.33182	.22411

#1	4364.4	7177.9	97811.	8328.4
#2	4366.1	7168.9	97353.	8354.9

Sample Name: 480-47960-B-4-A Acquired: 10/18/2013 16:08:12 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0028	.04363	.00285	.04407	.10400	-0.0003	42.330	.00008	-0.0021
Stddev	.00040	.02313	.00032	.00038	.00001	.00011	.216	.00003	.00020
%RSD	145.45	53.002	11.340	.87195	.01070	414.12	.51032	32.558	95.339

#1	.00001	.05998	.00308	.04434	.10401	.00005	42.178	.00010	-.00035
#2	-.00056	.02728	.00262	.04380	.10399	-.00011	42.483	.00006	-.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00071	-0.0021	.02691	1.5760	1.5724	.00104	18.584	.02252	.02040
Stddev	.00025	.00006	.00376	.0292	.0077	.00036	.081	.00000	.00013
%RSD	34.947	27.249	13.968	1.8542	.49214	34.158	.43471	.00890	.63107

#1	.00088	-.00017	.02957	1.5554	1.5669	.00079	18.527	.02252	.02049
#2	.00053	-.00025	.02425	1.5967	1.5778	.00129	18.641	.02252	.02031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00054	3.8213	.00006	-0.00258	9.219	-0.00013	.00240	7.1057	-0.00042
Stddev	.00025	.0014	.00006	.00030	.043	.00053	.00088	.0424	.00017
%RSD	45.427	.03538	97.019	11.502	.4635	392.74	36.469	.59612	40.092

#1	.00037	3.8203	.00010	-.00279	9.189	.00024	.00302	7.0758	-.00030
#2	.00072	3.8222	.00002	-.00237	9.249	-.00051	.00178	7.1357	-.00054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.16314	.00055	.00111	.00000	.00411
Stddev	.00017	.00017	.00162	.00003	.00010
%RSD	.10428	30.322	146.24	809.95	2.5528

#1	.16302	.00067	-.00004	.00002	.00403
#2	.16326	.00043	.00226	-.00002	.00418

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4538.3	7225.0	97876.	8348.5
Stddev	10.3	5.6	318.	52.2
%RSD	.22702	.07788	.32485	.62495

#1	4545.6	7229.0	98101.	8385.4
#2	4531.0	7221.0	97651.	8311.6

Sample Name: 480-47960-B-5-A Acquired: 10/18/2013 16:10:33 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0017	.01991	.00218	.02405	.04022	.00000	65.569	.00006	-0.00000
Stddev	.00035	.00108	.00080	.00012	.00000	.00004	.454	.00006	.00001
%RSD	209.13	5.4024	36.787	.51755	.00719	18555.	.69272	97.322	189.24

#1	-0.00042	.01915	.00275	.02414	.04023	-0.00003	65.248	.00002	.00000
#2	.00008	.02067	.00161	.02396	.04022	.00003	65.890	.00010	-0.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00068	.00144	.31879	1.5623	1.5675	.00099	17.270	.08616	.07866
Stddev	.00012	.00032	.00381	.0066	.0175	.00037	.010	.00005	.00144
%RSD	18.113	22.587	1.1960	.42589	1.1170	37.345	.05640	.06375	1.8325

#1	.00076	.00167	.31610	1.5576	1.5552	.00073	17.277	.08612	.07968
#2	.00059	.00121	.32149	1.5670	1.5799	.00125	17.263	.08620	.07764

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00146	3.4250	.00306	-0.00211	5.667	.00010	.00159	7.2562	-0.00013
Stddev	.00002	.0196	.00051	.00008	.012	.00084	.00278	.0096	.00007
%RSD	1.2837	.57166	16.713	4.0228	.2029	839.78	174.74	.13185	58.428

#1	.00147	3.4388	.00270	-0.00217	5.675	.00069	-0.00038	7.2494	-0.00008
#2	.00145	3.4111	.00342	-0.00205	5.659	-0.00049	.00356	7.2630	-0.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.15863	.00044	-0.00146	.00040	.10926
Stddev	.00038	.00005	.00352	.00002	.00057
%RSD	.23722	11.084	240.75	6.2463	.51842

#1	.15837	.00040	-0.00395	.00041	.10966
#2	.15890	.00047	.00103	.00038	.10886

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4491.2	7197.8	98167.	8328.1
Stddev	3.9	8.5	61.	86.5
%RSD	.08743	.11779	.06231	1.0389

#1	4493.9	7203.8	98124.	8389.2
#2	4488.4	7191.8	98210.	8266.9

Sample Name: CCV Acquired: 10/18/2013 16:12:55 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48625	24.522	.49841	.48176	.49654	.49974	24.312	.49311	.48959	.48549	.48071	24.540
Stddev	.00040	.131	.00115	.00058	.00151	.00071	.062	.00042	.00032	.00017	.00161	.132
%RSD	.08143	.53395	.23162	.11938	.30361	.14300	.25355	.08617	.06566	.03416	.33409	.53979

#1	.48597	24.615	.49760	.48135	.49761	.50025	24.356	.49341	.48936	.48537	.48184	24.634
#2	.48653	24.430	.49923	.48217	.49548	.49924	24.268	.49281	.48982	.48560	.47957	24.446

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.938	26.534	.49091	24.017	.50327	.46504	.48750	24.220	.49609	.49792	25.85	.51689
Stddev	.152	.015	.00224	.036	.00000	.00124	.00046	.097	.00039	.00411	.04	.00201
%RSD	.61069	.05792	.45574	.14989	.00055	.26688	.09434	.39905	.07865	.82474	.1477	.38867

#1	25.046	26.523	.49249	23.991	.50327	.46592	.48782	24.289	.49581	.49502	25.88	.51547
#2	24.830	26.545	.48933	24.042	.50326	.46417	.48717	24.152	.49637	.50083	25.83	.51832

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48316	24.194	.48600	.49770	.48465	.50363	.47276	.47814
Stddev	.00036	.062	.00122	.00052	.00082	.00134	.00137	.00059
%RSD	.07412	.25770	.25133	.10397	.16889	.26693	.28944	.12410

#1	.48290	24.238	.48514	.49734	.48522	.50268	.47373	.47772
#2	.48341	24.150	.48687	.49807	.48407	.50458	.47180	.47856

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4453.7	7344.3	98084.	8296.9
Stddev	3.7	1.7	109.	4.7
%RSD	.08297	.02347	.11144	.05605
#1	4456.3	7343.1	98162.	8293.6
#2	4451.0	7345.6	98007.	8300.2

Sample Name: CCB Acquired: 10/18/2013 16:15:16 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00020	.01381	.00141	.00040	-0.00005	-0.00011	-0.00478	-0.00004	-0.00006	-0.00018	-0.00094	-0.00724
Stddev	.00043	.00886	.00067	.00053	.00001	.00006	.00468	.00011	.00001	.00013	.00026	.00283
%RSD	217.56	64.182	47.894	133.14	14.264	58.214	97.793	244.19	8.1522	74.077	27.568	39.143

#1	.00011	.00754	.00189	.00077	-0.00005	-0.00015	-0.00809	.00003	-0.00006	-0.00008	-0.00075	-0.00524
#2	-0.00050	.02007	.00093	.00002	-0.00006	-0.00006	-0.00147	-0.00012	-0.00007	-0.00027	-0.00112	-0.00925

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.13012	.00721	-0.00162	.00215	-0.00012	-0.00071	.00027	.00678	-0.00028	.00030	F .0048	-0.00005
Stddev	.04807	.00061	.00016	.00234	.00009	.00058	.00022	.00442	.00022	.00001	.0027	.00063
%RSD	36.947	8.5034	10.038	108.72	73.645	81.737	80.371	65.267	78.613	2.9580	57.71	1163.7

#1	.09613	.00765	-0.00151	.00050	-0.00018	-0.00030	.00012	.00991	-0.00044	.00030	.0028	-0.00050
#2	.16411	.00678	-0.00174	.00380	-0.00006	-0.00112	.00043	.00365	-0.00013	.00031	.0067	.00039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-0.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00273	.01128	.00008	.00003	.00013	.00130	.00006	.00029
Stddev	.00087	.00487	.00018	.00015	.00003	.00067	.00001	.00019
%RSD	32.052	43.212	230.72	475.29	20.461	51.525	20.334	66.990

#1	.00335	.01473	.00020	-0.00008	.00015	.00083	.00005	.00043
#2	.00211	.00783	-0.00005	.00014	.00011	.00178	.00007	.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4790.1	7399.7	100890.	8282.7
Stddev	2.0	.1	73.	.0
%RSD	.04182	.00202	.07201	.00002
#1	4791.5	7399.6	100840.	8282.7
#2	4788.7	7399.8	100940.	8282.7

Sample Name: CCVL Acquired: 10/18/2013 16:17:42 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00299	.21809	.01293	.01958	.00200	.00207	.48868	.00089	.00385	.00362	.00901
Stddev	.00024	.00142	.00392	.00028	.00001	.00007	.00018	.00007	.00000	.00022	.00007
%RSD	8.1231	.65043	30.341	1.4316	.64900	3.6099	.03613	8.3678	.04370	6.1137	.79662

#1	.00282	.21708	.01016	.01938	.00201	.00213	.48856	.00095	.00386	.00377	.00896
#2	.00316	.21909	.01571	.01978	.00199	.00202	.48881	.00084	.00385	.00346	.00907

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	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04266	.56132	.43539	F .00103	.20119	W .00409	.00315	.01020	.89273	.00955	.00579
Stddev	.00294	.00136	.00381	.00042	.00099	.00001	.00044	.00012	.00179	.00016	.00029
%RSD	6.9005	.24143	.87551	41.079	.49288	.22946	13.956	1.1908	.20012	1.7043	4.9803

#1	.04474	.56036	.43809	.00073	.20049	.00409	.00284	.01028	.89147	.00943	.00559
#2	.04058	.56227	.43269	.00133	.20189	.00408	.00346	.01011	.89400	.00966	.00600

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.03000		.00300					
Range				-50.000%		30.000%					

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0039	.02075	.01622	.49168	.00917	.00502	.00505	.02031	.00462	.01017
Stddev	.0004	.00088	.00159	.00230	.00002	.00011	.00026	.00283	.00007	.00074
%RSD	11.36	4.2547	9.8068	.46807	.16465	2.1325	5.1650	13.953	1.4279	7.2710

#1	.0042	.02137	.01735	.49005	.00918	.00494	.00523	.02231	.00466	.01070
#2	.0036	.02013	.01510	.49330	.00916	.00509	.00486	.01830	.00457	.00965

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2000									
Range	-50.00%									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4782.6	7440.5	101370.	8324.4
Stddev	5.6	.7	488.	4.6
%RSD	.11618	.00988	.48132	.05572

#1	4778.6	7440.0	101020.	8327.7
#2	4786.5	7441.0	101710.	8321.1

Sample Name: 480-47960-B-6-A Acquired: 10/18/2013 16:20:06 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00016	.02766	.00415	.02917	.11036	-0.00005	57.310	.00011	-0.00007
Stddev	.00049	.00581	.00147	.00057	.00071	.00006	.204	.00008	.00003
%RSD	310.84	21.004	35.356	1.9601	.64570	107.59	.35532	73.600	46.344

#1	-0.00050	.02355	.00311	.02876	.11086	-0.00001	57.454	.00017	-0.00009
#2	.00019	.03177	.00519	.02957	.10986	-0.00010	57.166	.00005	-0.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00076	-0.00029	.12845	1.6049	1.7924	.00165	25.755	.07362	.06753
Stddev	.00032	.00014	.00054	.0419	.0151	.00021	.090	.00035	.00059
%RSD	41.490	50.052	.41699	2.6102	.84244	12.555	.35118	.46890	.88042

#1	.00099	-0.00018	.12883	1.6345	1.8030	.00180	25.819	.07386	.06795
#2	.00054	-0.00039	.12807	1.5753	1.7817	.00151	25.691	.07337	.06711

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	4.0540	.00031	-0.00239	8.032	-0.00071	.00249	6.9988	-0.00016
Stddev	.00018	.0094	.00019	.00019	.021	.00186	.00147	.0436	.00007
%RSD	34.544	.23190	61.401	8.0189	.2638	263.10	59.025	.62242	44.398

#1	.00039	4.0474	.00044	-0.00225	8.017	-0.00202	.00145	7.0296	-0.00011
#2	.00064	4.0607	.00017	-0.00252	8.047	.00061	.00352	6.9680	-0.00021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.17748	.00029	.00095	-0.00012	.00395
Stddev	.00028	.00017	.00163	.00016	.00042
%RSD	.16022	58.257	171.52	131.32	10.580

#1	.17768	.00017	-0.00020	-0.00023	.00424
#2	.17728	.00041	.00210	-0.00001	.00365

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4487.0	7173.9	97550.	8265.0
Stddev	4.8	5.9	426.	42.4
%RSD	.10752	.08164	.43670	.51327

#1	4490.4	7178.1	97249.	8235.0
#2	4483.6	7169.8	97852.	8295.0

Sample Name: 480-47960-B-7-A Acquired: 10/18/2013 16:22:27 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00025	.03976	.00212	.03552	.12052	-0.00002	58.599	.00007	-0.00011
Stddev	.00006	.01890	.00099	.00017	.00053	.00002	.108	.00002	.00008
%RSD	25.780	47.522	46.573	.47774	.44343	117.15	.18358	27.244	65.970

#1	-0.00029	.05312	.00142	.03540	.12014	-0.00000	58.675	.00008	-0.00006
#2	-0.00020	.02640	.00282	.03564	.12090	-0.00003	58.523	.00005	-0.00017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	-0.00068	.37312	1.5960	1.6860	.00135	24.111	.07895	.07162
Stddev	.00007	.00008	.00048	.0065	.0034	.00043	.091	.00029	.00050
%RSD	13.850	11.256	.12809	.40768	.20219	31.730	.37822	.36357	.69269

#1	.00057	-0.00074	.37278	1.5914	1.6836	.00165	24.047	.07875	.07127
#2	.00047	-0.00063	.37346	1.6006	1.6884	.00105	24.176	.07916	.07197

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	3.0616	.00015	-0.00155	9.145	-0.00100	.00283	6.5388	-0.00032
Stddev	.00010	.0059	.00020	.00041	.021	.00009	.00584	.0056	.00049
%RSD	26.150	.19124	133.24	26.652	.2260	8.5446	206.29	.08512	155.11

#1	.00030	3.0575	.00030	-0.00126	9.159	-0.00106	-0.00130	6.5349	-0.00067
#2	.00044	3.0658	.00001	-0.00184	9.130	-0.00094	.00696	6.5428	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.14931	.00015	.00138	-0.00008	.00230
Stddev	.00019	.00016	.00044	.00014	.00014
%RSD	.12939	106.48	31.506	167.07	6.0277

#1	.14944	.00004	.00107	-0.00018	.00220
#2	.14917	.00026	.00169	.00002	.00240

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4492.0	7162.6	97789.	8263.7
Stddev	3.5	6.1	552.	3.4
%RSD	.07724	.08571	.56427	.04114

#1	4489.6	7166.9	98179.	8266.1
#2	4494.5	7158.2	97398.	8261.3

Sample Name: 480-47960-B-8-A Acquired: 10/18/2013 16:24:48 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00018	.05789	.00241	.02578	.17930	-0.00005	72.043	.00006	-0.00012
Stddev	.00054	.00395	.00072	.00017	.00077	.00003	.401	.00010	.00009
%RSD	295.34	6.8296	29.944	.67320	.42771	65.975	.55680	154.66	74.019

#1	-.00020	.05510	.00292	.02566	.17984	-.00007	71.760	.00013	-.00006
#2	.00057	.06069	.00190	.02590	.17876	-.00002	72.327	-.00001	-.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00164	.00069	.02660	1.5751	1.8044	.00884	35.017	.06246	.05717
Stddev	.00021	.00022	.00035	.0042	.0070	.00024	.015	.00015	.00097
%RSD	12.893	32.484	1.3227	.26516	.38986	2.7108	.04172	.23657	1.7015

#1	.00149	.00085	.02635	1.5781	1.7994	.00901	35.027	.06256	.05786
#2	.00179	.00053	.02685	1.5722	1.8094	.00867	35.007	.06235	.05649

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00199	16.814	.00537	-0.00276	7.249	-0.00080	.00048	8.0113	-0.00019
Stddev	.00009	.009	.00016	.00009	.023	.00088	.00034	.0217	.00007
%RSD	4.3286	.05228	2.9985	3.3056	.3146	110.75	70.992	.27131	35.258

#1	.00193	16.807	.00526	-.00269	7.265	-.00142	.00024	7.9959	-.00023
#2	.00205	16.820	.00549	-.00282	7.233	-.00017	.00072	8.0266	-.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.25860	.00091	.00157	-0.00027	.00506
Stddev	.00005	.00011	.00217	.00010	.00053
%RSD	.02008	11.755	138.01	38.248	10.406

#1	.25864	.00099	.00310	-.00019	.00469
#2	.25856	.00084	.00004	-.00034	.00544

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4387.4	7090.6	96605.	8273.7
Stddev	4.2	2.2	125.	26.0
%RSD	.09630	.03070	.12980	.31422

#1	4384.4	7089.0	96516.	8292.1
#2	4390.3	7092.1	96693.	8255.3

Sample Name: 480-47960-B-9-A Acquired: 10/18/2013 16:27:10 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00018	.05208	.00226	.03645	.12365	-0.00011	59.858	.00001	-0.00013
Stddev	.00012	.00383	.00157	.00022	.00050	.00008	.026	.00001	.00007
%RSD	67.156	7.3571	69.640	.59308	.40329	75.547	.04300	56.416	51.306

#1	-0.00009	.04937	.00115	.03660	.12330	-0.00005	59.876	.00002	-0.00008
#2	-0.00027	.05479	.00337	.03630	.12400	-0.00017	59.839	.00001	-0.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00047	-0.00036	.36097	1.6034	1.7457	.00181	24.748	.08001	.07282
Stddev	.00018	.00004	.00004	.0092	.0141	.00007	.096	.00006	.00008
%RSD	37.295	11.128	.01047	.57107	.80463	4.0914	.38606	.07373	.11416

#1	.00060	-0.00033	.36094	1.5969	1.7358	.00186	24.681	.08005	.07276
#2	.00035	-0.00039	.36100	1.6099	1.7556	.00176	24.816	.07997	.07288

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	3.1609	.00000	-0.00352	9.520	.00007	.00113	6.7328	-0.00015
Stddev	.00026	.0216	.00040	.00000	.055	.00032	.00206	.0136	.00010
%RSD	81.374	.68193	33520.	.08824	.5775	431.81	181.62	.20243	65.659

#1	.00014	3.1761	-0.00028	-0.00352	9.481	.00030	.00259	6.7425	-0.00008
#2	.00051	3.1457	.00029	-0.00352	9.558	-0.00015	-0.00032	6.7232	-0.00023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.15363	.00023	.00269	-0.00018	.00178
Stddev	.00001	.00011	.00019	.00005	.00021
%RSD	.00669	46.150	7.1203	28.413	11.649

#1	.15364	.00031	.00283	-0.00014	.00163
#2	.15362	.00016	.00255	-0.00022	.00193

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4466.7	7143.8	97533.	8319.0
Stddev	1.5	8.1	286.	17.5
%RSD	.03258	.11276	.29301	.20980

#1	4465.7	7149.5	97735.	8331.3
#2	4467.7	7138.1	97331.	8306.6

Sample Name: 480-47960-B-10-A Acquired: 10/18/2013 16:29:31 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0001	.04530	.00374	.04618	.05385	-0.0006	39.715	.00009	.00004
Stddev	.00030	.00060	.00053	.00009	.00009	.00004	.004	.00002	.00005
%RSD	2625.3	1.3346	14.069	.18570	.17220	57.164	.00962	24.879	147.49

#1	-0.00023	.04573	.00411	.04612	.05378	-0.00004	39.712	.00007	.00008
#2	.00020	.04487	.00337	.04624	.05391	-0.00009	39.718	.00011	-0.00000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00047	-0.0009	.00286	2.1718	2.4010	.00313	20.361	.06749	.06033
Stddev	.00008	.00006	.00095	.0120	.0126	.00023	.043	.00014	.00013
%RSD	16.582	67.508	33.344	.55039	.52414	7.4957	.21350	.20225	.21563

#1	.00052	-0.00013	.00219	2.1633	2.3921	.00330	20.330	.06759	.06042
#2	.00041	-0.00005	.00354	2.1803	2.4099	.00297	20.392	.06740	.06024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00447	5.5385	.00070	-0.00280	6.690	-0.00008	-0.00145	7.6937	.00001
Stddev	.00013	.0219	.00021	.00016	.010	.00093	.00166	.0389	.00045
%RSD	2.8167	.39527	29.998	5.7879	.1448	1150.2	114.49	.50587	5907.9

#1	.00455	5.5230	.00085	-0.00268	6.683	-0.00074	-0.00028	7.6662	-0.00031
#2	.00438	5.5540	.00055	-0.00291	6.697	.00058	-0.00262	7.7213	.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.17968	.00029	.00119	-0.00001	.00227
Stddev	.00038	.00021	.00082	.00013	.00020
%RSD	.21227	72.263	69.137	1845.0	8.7558

#1	.17941	.00044	.00178	.00009	.00213
#2	.17995	.00014	.00061	-0.00010	.00241

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4518.9	7198.3	98110.	8252.9
Stddev	8.0	16.0	121.	20.3
%RSD	.17660	.22166	.12301	.24572

#1	4524.5	7209.6	98195.	8267.3
#2	4513.2	7187.0	98024.	8238.6

Sample Name: 480-47992-D-4-A Acquired: 10/18/2013 16:31:52 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00111	.07037	.03181	.06195	.31863	.00005	120.52	-0.00003	.00610
Stddev	.00056	.02508	.00164	.00047	.00135	.00003	.15	.00001	.00006
%RSD	50.540	35.645	5.1705	.76644	.42312	65.130	.12474	39.168	.95545

#1	.00151	.08810	.03065	.06162	.31768	.00008	120.42	-0.00004	.00605
#2	.00071	.05263	.03297	.06229	.31959	.00003	120.63	-0.00002	.00614

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00195	.00012	46.512	7.6001	9.0439	.00680	25.895	8.6934	8.5484
Stddev	.00007	.00031	.116	.0398	.0287	.00003	.047	.0168	.0014
%RSD	3.4596	258.28	.25038	.52381	.31773	.50546	.18055	.19348	.01595

#1	.00200	-0.00010	46.429	7.5719	9.0236	.00677	25.928	8.6815	8.5494
#2	.00190	.00034	46.594	7.6282	9.0643	.00682	25.861	8.7053	8.5474

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00027	13.315	.00289	-0.00105	6.074	-0.00028	.00446	14.315	-0.00002
Stddev	.00030	.017	.00009	.00015	.010	.00063	.00228	.064	.00002
%RSD	109.74	.12641	3.1055	13.836	.1606	222.61	51.090	.44616	98.958

#1	-0.00048	13.327	.00296	-0.00095	6.067	.00016	.00608	14.270	-0.00001
#2	-0.00006	13.303	.00283	-0.00116	6.081	-0.00073	.00285	14.360	-0.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.41113	.00043	.00558	.00090	.00116
Stddev	.00079	.00027	.00188	.00002	.00001
%RSD	.19121	62.358	33.703	1.6733	.94831

#1	.41169	.00062	.00691	.00091	.00117
#2	.41058	.00024	.00425	.00089	.00115

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4294.2	7030.9	95271.	8254.4
Stddev	.8	9.5	192.	17.9
%RSD	.01969	.13443	.20158	.21680

#1	4294.8	7037.5	95407.	8267.1
#2	4293.6	7024.2	95135.	8241.7

Sample Name: 480-47992-D-5-A Acquired: 10/18/2013 16:34:24 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00102	.04181	.02338	.02159	.03936	-.00013	25.199	-.00001	.00406
Stddev	.00093	.00261	.00177	.00002	.00007	.00011	.250	.00004	.00001
%RSD	91.073	6.2449	7.5499	.11510	.17400	80.375	.99355	250.59	.31603

#1	.00036	.04366	.02213	.02158	.03941	-.00021	25.376	.00001	.00407
#2	.00167	.03997	.02463	.02161	.03931	-.00006	25.022	-.00004	.00405

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00116	-.00040	4.4598	1.9766	2.2212	-.00024	5.3144	4.8078	4.5297
Stddev	.00021	.00025	.0336	.0823	.0087	.00110	.0222	.0311	.0089
%RSD	18.241	61.614	.75392	4.1629	.39325	453.47	.41799	.64690	.19661

#1	.00101	-.00058	4.4836	2.0348	2.2274	-.00102	5.3301	4.8298	4.5360
#2	.00131	-.00023	4.4361	1.9184	2.2150	.00053	5.2987	4.7858	4.5234

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	25.254	.00447	-.00166	3.627	-.00144	.00180	5.6367	-.00014
Stddev	.00004	.197	.00031	.00109	.014	.00024	.00346	.0537	.00037
%RSD	45.147	.77854	6.9339	65.507	.3737	16.644	192.47	.95332	263.48

#1	.00011	25.393	.00469	-.00089	3.618	-.00127	-.00065	5.6747	-.00040
#2	.00006	25.115	.00425	-.00243	3.637	-.00160	.00424	5.5987	.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09604	.00034	.00450	.00046	.00460
Stddev	.00010	.00009	.00194	.00000	.00016
%RSD	.10778	25.468	43.144	.90467	3.5527

#1	.09611	.00041	.00588	.00047	.00448
#2	.09597	.00028	.00313	.00046	.00472

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4532.9	7213.7	99520.	8436.9
Stddev	.2	2.2	495.	52.4
%RSD	.00376	.02999	.49771	.62167

#1	4532.8	7212.2	99170.	8399.8
#2	4533.0	7215.2	99870.	8474.0

Sample Name: 480-47992-D-6-A Acquired: 10/18/2013 16:36:50 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00148	.05317	.03485	.06213	.31898	-0.00002	121.67	-0.00008	.00630
Stddev	.00056	.01795	.00013	.00052	.00068	.00003	.76	.00005	.00013
%RSD	38.241	33.762	.36934	.84208	.21329	133.83	.62803	58.622	1.9996

#1	.00108	.06587	.03494	.06176	.31850	-0.00004	121.12	-0.00012	.00639
#2	.00188	.04048	.03475	.06250	.31946	-0.00000	122.21	-0.00005	.00621

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00195	-0.00000	46.897	7.5805	9.1379	.00630	26.032	8.7707	8.5794
Stddev	.00045	.00026	.194	.0365	.0301	.00101	.035	.0241	.0079
%RSD	22.980	6099.7	.41346	.48089	.32901	16.012	.13571	.27447	.09256

#1	.00227	-0.00019	46.760	7.5547	9.1592	.00559	26.007	8.7536	8.5738
#2	.00163	.00018	47.034	7.6063	9.1167	.00702	26.057	8.7877	8.5850

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00023	13.474	.00300	.00006	6.070	-0.00381	.00434	14.460	.00005
Stddev	.00029	.026	.00009	.00058	.013	.00046	.00200	.138	.00067
%RSD	127.58	.19010	3.1469	920.57	.2186	12.096	46.174	.95151	1304.5

#1	-0.00043	13.456	.00306	.00047	6.080	-0.00413	.00292	14.363	.00052
#2	-0.00002	13.493	.00293	-0.00035	6.061	-0.00348	.00575	14.557	-0.00042

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.41523	.00064	.00689	.00114	.00165
Stddev	.00025	.00030	.00077	.00011	.00028
%RSD	.06050	46.900	11.106	9.3013	16.835

#1	.41541	.00043	.00744	.00107	.00145
#2	.41506	.00085	.00635	.00122	.00185

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4289.5	7030.9	95185.	8201.6
Stddev	5.6	1.4	209.	38.5
%RSD	.13074	.02004	.21931	.46938

#1	4285.6	7031.9	95332.	8228.8
#2	4293.5	7029.9	95037.	8174.3

Sample Name: 480-47992-D-7-A Acquired: 10/18/2013 16:39:22 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00001	.04550	.00274	.01571	.01620	-0.00001	17.350	-0.00006	-0.00001
Stddev	.00078	.00796	.00093	.00010	.00007	.00005	.040	.00000	.00003
%RSD	5901.1	17.490	33.935	.65056	.41994	496.59	.22909	1.9940	191.03

#1	-.00054	.03988	.00340	.01578	.01625	-.00004	17.322	-.00006	.00000
#2	.00056	.05113	.00208	.01563	.01616	.00002	17.378	-.00006	-.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	-0.0012	.26885	1.4305	1.6017	-0.00011	2.9864	.09130	.08286
Stddev	.00016	.00032	.00333	.0273	.0079	.00020	.0058	.00002	.00118
%RSD	276.51	274.03	1.2404	1.9078	.49254	180.66	.19482	.02374	1.4288

#1	-.00005	.00011	.27121	1.4498	1.5962	.00003	2.9823	.09128	.08370
#2	.00017	-.00034	.26649	1.4112	1.6073	-.00025	2.9905	.09131	.08202

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	31.642	.00013	-0.00167	2.763	.00066	.00191	4.2343	-0.00023
Stddev	.00000	.132	.00034	.00009	.013	.00116	.00019	.0457	.00002
%RSD	4.9864	.41637	265.33	5.4386	.4829	174.33	10.129	1.0789	8.9717

#1	.00009	31.549	.00037	-.00173	2.754	-.00015	.00177	4.2020	-.00022
#2	.00008	31.735	-.00011	-.00161	2.772	.00148	.00205	4.2666	-.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04887	.00014	.00162	.00024	.00758
Stddev	.00003	.00010	.00082	.00023	.00005
%RSD	.05989	71.379	50.533	93.326	.61002

#1	.04889	.00021	.00220	.00040	.00761
#2	.04885	.00007	.00104	.00008	.00755

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4570.2	7246.0	97738.	8261.9
Stddev	5.4	8.8	395.	45.9
%RSD	.11863	.12199	.40460	.55576

#1	4574.1	7252.2	97459.	8294.4
#2	4566.4	7239.7	98018.	8229.5

Sample Name: CCV Acquired: 10/18/2013 16:41:45 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48330	24.294	.49868	.47975	.49433	.50113	24.115	.49475	.49041	.47624	.47356	24.534
Stddev	.00064	.177	.00019	.00031	.00039	.00016	.091	.00034	.00088	.00038	.00040	.006
%RSD	.13307	.72742	.03738	.06560	.07807	.03118	.37913	.06774	.17921	.07982	.08342	.02378

#1	.48376	24.169	.49881	.47953	.49406	.50124	24.050	.49451	.49104	.47597	.47328	24.530
#2	.48285	24.419	.49855	.47997	.49461	.50102	24.179	.49499	.48979	.47650	.47383	24.538

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.703	26.677	.48664	23.952	.50196	.46321	.48878	23.908	.49868	.50003	26.28	.52125
Stddev	.004	.040	.00010	.065	.00098	.00042	.00065	.146	.00078	.00066	.10	.00098
%RSD	.01759	.14903	.02141	.27274	.19513	.08985	.13305	.61041	.15676	.13284	.3686	.18706

#1	24.699	26.705	.48657	23.905	.50127	.46350	.48832	23.805	.49812	.49956	26.21	.52194
#2	24.706	26.649	.48671	23.998	.50265	.46291	.48924	24.011	.49923	.50050	26.35	.52056

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49282	23.833	.48313	.50037	.48136	.50396	.46286	.46820
Stddev	.00085	.103	.00212	.00092	.00068	.00378	.00104	.00326
%RSD	.17341	.43274	.43861	.18472	.14112	.74986	.22517	.69680

#1	.49343	23.760	.48463	.49971	.48088	.50663	.46212	.46589
#2	.49222	23.906	.48163	.50102	.48184	.50129	.46360	.47050

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4435.3	7317.9	98841.	8344.3
Stddev	.9	2.2	220.	26.4
%RSD	.01993	.02998	.22250	.31690
#1	4434.7	7316.4	98996.	8363.0
#2	4436.0	7319.5	98685.	8325.6

Sample Name: CCB Acquired: 10/18/2013 16:44:07 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00028	.04431	.00095	-0.00036	-0.00005	.00001	-0.00312	-0.00011	.00001	-0.00003	-0.00092	-0.00313
Stddev	.00030	.01598	.00167	.00004	.00000	.00004	.00002	.00008	.00008	.00006	.00006	.00224
%RSD	104.84	36.073	176.39	11.553	1.0654	687.82	.70145	70.251	809.83	196.86	6.7496	71.636

#1	-0.00049	.03301	.00213	-0.00033	-0.00005	-0.00002	-0.00310	-0.00017	-0.00005	-0.00007	-0.00096	-0.0154
#2	-0.00007	.05561	-0.00023	-0.00039	-0.00005	.00003	-0.00314	-0.00006	.00006	.00001	-0.00088	-0.0472

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10111	.00425	-0.00050	.00218	-0.00004	.00009	.00020	-0.00292	-0.00028	-0.00089	F .0051	.00164
Stddev	.01846	.00063	.00078	.00286	.00002	.00052	.00003	.00661	.00000	.00011	.0040	.00077
%RSD	18.257	14.844	156.35	131.44	43.461	584.02	12.948	226.13	1.3615	12.577	77.21	47.240

#1	.11416	.00381	.00005	.00015	-0.00006	.00045	.00022	-0.00760	-0.00028	-0.00081	.0080	.00109
#2	.08805	.00470	-0.00105	.00420	-0.00003	-0.00028	.00019	.00175	-0.00027	-0.00096	.0023	.00218

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00336	.00380	.00015	-0.00022	.00012	.00161	.00004	.00749
Stddev	.00320	.01306	.00080	.00012	.00001	.00018	.00009	.00027
%RSD	95.308	343.20	540.94	55.512	11.943	11.094	217.22	3.6192

#1	.00110	.01304	-0.00042	-0.00013	.00013	.00149	.00010	.00768
#2	.00563	-.00543	.00071	-0.00030	.00011	.00174	-0.00002	.00730

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4781.8	7395.3	101210.	8295.3
Stddev	2.5	5.1	118.	29.4
%RSD	.05330	.06856	.11641	.35401
#1	4779.9	7391.8	101290.	8274.5
#2	4783.6	7398.9	101130.	8316.0

Sample Name: CCVL Acquired: 10/18/2013 16:46:33 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00248	.23726	.01251	.01963	.00199	.00194	.50098	.00082	.00381	.00342	.00878	.04541
Stddev	.00026	.01759	.00005	.00015	.00001	.00005	.00249	.00003	.00012	.00005	.00018	.00578
%RSD	10.529	7.4132	.40079	.75607	.46731	2.6582	.49712	4.0922	3.2089	1.5376	1.9944	12.730

#1	.00230	.24970	.01254	.01952	.00200	.00197	.50275	.00080	.00389	.00338	.00890	.04949
#2	.00267	.22483	.01247	.01973	.00198	.00190	.49922	.00085	.00372	.00346	.00866	.04132

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49580	.43615	F .00289	.19910	.00310	.00223	.01021	.91781	.00992	.00453	F .0051	.02113
Stddev	.00774	.00752	.00032	.00240	.00001	.00038	.00030	.00215	.00015	.00012	.0019	.00019
%RSD	1.5610	1.7252	10.971	1.2051	.33515	17.070	2.9386	.23373	1.5379	2.5815	38.03	.89872

#1	.49033	.44147	.00267	.19740	.00310	.00250	.01000	.91629	.01003	.00461	.0065	.02126
#2	.50127	.43083	.00312	.20080	.00311	.00196	.01042	.91932	.00981	.00444	.0037	.02099

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01713	.50820	.00903	.00511	.00459	.02191	.00487	.01010
Stddev	.00212	.01690	.00001	.00001	.00058	.00125	.00008	.00054
%RSD	12.399	3.3263	.12113	.19404	12.635	5.7044	1.6358	5.3230

#1	.01863	.49625	.00904	.00510	.00500	.02103	.00493	.00972
#2	.01563	.52015	.00902	.00511	.00418	.02280	.00481	.01048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4770.7	7417.6	101280.	8326.4
Stddev	5.1	3.1	326.	67.9
%RSD	.10631	.04157	.32236	.81505
#1	4767.1	7415.4	101510.	8278.5
#2	4774.3	7419.8	101050.	8374.4

Sample Name: 480-47992-D-8-A Acquired: 10/18/2013 16:48:58 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00066	.05402	.00356	.02600	.11118	.00006	30.487	.00002	-0.00021
Stddev	.00023	.02661	.00280	.00007	.00001	.00005	.248	.00007	.00001
%RSD	35.021	49.262	78.648	.28582	.00464	83.869	.81485	463.41	6.8343

#1	-0.00050	.03520	.00554	.02605	.11118	.00009	30.311	.00007	-0.00020
#2	-0.00083	.07284	.00158	.02594	.11119	.00002	30.663	-0.00004	-0.00022

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	.00051	.02032	1.6449	1.9425	.01864	21.045	.01408	.01321
Stddev	.00004	.00028	.00195	.0602	.0220	.00038	.043	.00004	.00036
%RSD	10.639	54.059	9.5967	3.6604	1.1317	2.0346	.20321	.30714	2.7438

#1	.00034	.00071	.02170	1.6023	1.9269	.01890	21.014	.01405	.01295
#2	.00039	.00032	.01894	1.6875	1.9580	.01837	21.075	.01411	.01346

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00228	28.672	.00005	-0.00415	9.559	-0.00085	.00231	9.2329	.00007
Stddev	.00002	.180	.00034	.00112	.002	.00016	.00105	.0560	.00000
%RSD	.84934	.62886	711.59	26.899	.0253	18.499	45.329	.60619	4.4419

#1	.00227	28.545	.00028	-0.00494	9.558	-0.00074	.00157	9.1933	.00006
#2	.00230	28.800	-0.00019	-0.00336	9.561	-0.00096	.00305	9.2725	.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0209	.00056	.00195	.00022	.00388
Stddev	.0005	.00008	.00140	.00003	.00005
%RSD	.04701	14.271	71.581	15.020	1.2256

#1	1.0213	.00051	.00096	.00020	.00391
#2	1.0206	.00062	.00294	.00025	.00385

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4477.8	7174.9	96702.	8203.5
Stddev	10.3	12.7	34.	70.5
%RSD	.22928	.17727	.03495	.85960

#1	4485.0	7183.9	96678.	8253.3
#2	4470.5	7165.9	96725.	8153.6

Sample Name: MB 480-145224/1-A Acquired: 10/18/2013 16:51:20 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00050	.03442	.00211	.00278	-.00002	-.00008	.03212	.00005	-.00011
Stddev	.00005	.01072	.00036	.00015	.00000	.00006	.00018	.00002	.00006
%RSD	10.108	31.142	17.073	5.3119	30.542	73.559	.56683	38.216	58.841

#1	.00046	.02684	.00185	.00288	-.00001	-.00004	.03199	.00006	-.00006
#2	.00053	.04199	.00236	.00267	-.00002	-.00013	.03225	.00004	-.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00015	-.00039	-.00604	.06611	.00334	.00000	.00067	.00005	-.00000
Stddev	.00037	.00001	.00248	.04068	.00025	.00064	.00272	.00002	.00002
%RSD	247.15	1.4918	41.049	61.545	7.4829	15853.	403.97	45.432	383.91

#1	-.00041	-.00040	-.00429	.03734	.00316	.00045	-.00125	.00007	-.00002
#2	.00011	-.00039	-.00779	.09487	.00351	-.00045	.00260	.00003	.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.00340	-.00038	.00015	.0050	.00018	.00137	-.00528	-.00026
Stddev	.00024	.00196	.00011	.00030	.0027	.00054	.00108	.00879	.00029
%RSD	722.10	57.587	28.392	193.55	54.35	300.40	78.962	166.63	111.70

#1	-.00014	.00201	-.00030	-.00006	.0031	.00057	.00061	.00094	-.00005
#2	.00020	.00478	-.00045	.00037	.0069	-.00020	.00214	-.01149	-.00046

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00027	.00010	.00087	-.00015	.00094
Stddev	.00010	.00028	.00022	.00021	.00011
%RSD	38.743	264.13	25.720	139.15	12.188

#1	.00020	-.00009	.00071	-.00030	.00102
#2	.00035	.00030	.00102	-.00000	.00086

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4795.1	7410.9	100850.	8234.9
Stddev	6.8	20.3	342.	47.6
%RSD	.14090	.27452	.33957	.57807

#1	4799.9	7425.3	101090.	8268.5
#2	4790.3	7396.5	100610.	8201.2

Sample Name: LCS 480-145224/2-A Acquired: 10/18/2013 16:53:44 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04941	10.364	.20703	.20796	.20484	.21026	9.9527	.20744	.20361
Stddev	.00034	.025	.00272	.00006	.00064	.00015	.0091	.00023	.00022
%RSD	.67910	.24529	1.3131	.02917	.31416	.07128	.09187	.11317	.11016

#1	.04964	10.346	.20896	.20792	.20530	.21037	9.9592	.20760	.20376
#2	.04917	10.382	.20511	.20801	.20439	.21015	9.9462	.20727	.20345

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19805	.19803	10.390	9.8787	10.525	.20083	10.299	.20693	.18686
Stddev	.00007	.00106	.019	.0464	.003	.00024	.005	.00007	.00084
%RSD	.03493	.53666	.17813	.46979	.02588	.11899	.05031	.03363	.44961

#1	.19800	.19878	10.403	9.9115	10.523	.20066	10.295	.20698	.18745
#2	.19810	.19728	10.377	9.8459	10.527	.20099	10.303	.20688	.18626

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20879	9.8131	.20419	.20509	10.91	.21324	.20615	9.6417	.19021
Stddev	.00033	.0342	.00059	.00074	.01	.00067	.00123	.0060	.00042
%RSD	.15978	.34882	.28830	.36116	.0638	.31339	.59691	.06214	.22069

#1	.20855	9.8373	.20461	.20456	10.91	.21277	.20528	9.6459	.18991
#2	.20902	9.7889	.20377	.20561	10.92	.21372	.20702	9.6375	.19050

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20750	.19388	.21021	.19314	.19329
Stddev	.00002	.00059	.00224	.00038	.00088
%RSD	.00966	.30371	1.0653	.19701	.45719

#1	.20752	.19429	.20863	.19340	.19266
#2	.20749	.19346	.21180	.19287	.19391

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4567.8	7311.5	99922.	8313.3
Stddev	4.5	6.5	54.	2.3
%RSD	.09851	.08878	.05368	.02792

#1	4571.0	7316.1	99884.	8311.6
#2	4564.7	7306.9	99960.	8314.9

Sample Name: 480-47938-A-1-A Acquired: 10/18/2013 16:56:03 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00032	.12098	.00206	.04449	.07170	-0.00005	55.054	.00012	-0.00025
Stddev	.00053	.00354	.00123	.00006	.00008	.00001	.247	.00007	.00004
%RSD	166.86	2.9235	59.832	.13725	.10468	10.498	.44871	64.493	15.206

#1	.00006	.11848	.00293	.04453	.07165	-0.00005	55.228	.00006	-0.00023
#2	-0.00069	.12348	.00119	.04445	.07176	-0.00005	54.879	.00017	-0.00028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	-0.00016	.04016	3.9237	4.6538	.00132	9.6435	.00359	.00338
Stddev	.00023	.00010	.00098	.0189	.0071	.00155	.0006	.00002	.00022
%RSD	60.822	66.202	2.4357	.48160	.15172	117.67	.00654	.53204	6.6618

#1	.00021	-0.00023	.04085	3.9371	4.6588	.00022	9.6440	.00358	.00353
#2	.00053	-0.00008	.03947	3.9103	4.6488	.00241	9.6431	.00361	.00322

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00023	20.509	.00021	-0.00044	4.298	-0.00076	.00281	4.9287	-0.00053
Stddev	.00018	.082	.00018	.00107	.024	.00141	.00093	.0249	.00040
%RSD	79.864	.40073	86.656	241.07	.5621	186.50	32.983	.50606	76.226

#1	.00010	20.567	.00008	-0.00120	4.281	-0.00175	.00216	4.9463	-0.00024
#2	.00036	20.451	.00034	.00031	4.315	.00024	.00347	4.9110	-0.00082

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.11123	.00036	.00064	.00010	.00362
Stddev	.00036	.00019	.00180	.00019	.00003
%RSD	.31995	51.911	281.30	181.24	.73610

#1	.11148	.00050	.00191	-0.00003	.00360
#2	.11098	.00023	-0.00063	.00024	.00364

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4474.3	7149.9	96958.	8270.4
Stddev	2.1	12.6	57.	18.3
%RSD	.04683	.17605	.05886	.22101

#1	4475.8	7158.8	96917.	8257.5
#2	4472.9	7141.0	96998.	8283.3

Sample Name: 480-47938-A-2-A Acquired: 10/18/2013 16:58:25 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00038	.05680	-0.00039	.01997	.04340	-0.00005	46.015	.00003	-0.00007
Stddev	.00008	.01572	.00172	.00048	.00032	.00003	.321	.00004	.00009
%RSD	21.937	27.671	435.45	2.4218	.73648	55.775	.69798	138.61	125.08

#1	-0.00032	.06792	-0.00161	.02031	.04363	-0.00003	45.788	.00000	-0.00013
#2	-0.00044	.04569	.00082	.01963	.04317	-0.00006	46.242	.00006	-0.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00053	-0.00011	.03379	1.1475	1.3444	.00035	8.8064	.00158	.00096
Stddev	.00033	.00015	.00112	.0037	.0030	.00015	.0518	.00003	.00019
%RSD	61.555	130.04	3.3063	.32286	.22275	43.806	.58824	2.0311	19.720

#1	.00030	-0.00001	.03458	1.1449	1.3423	.00046	8.8430	.00156	.00109
#2	.00076	-0.00022	.03300	1.1502	1.3466	.00024	8.7698	.00160	.00083

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	15.740	-0.00040	-0.00179	4.115	-0.00005	.00118	3.0125	-0.00012
Stddev	.00004	.073	.00034	.00011	.013	.00018	.00379	.0338	.00030
%RSD	29.890	.46129	84.866	6.3062	.3254	331.68	320.30	1.1204	250.24

#1	.00015	15.689	-0.00063	-0.00171	4.124	.00007	-0.00150	2.9887	.00009
#2	.00010	15.792	-0.00016	-0.00187	4.105	-0.00018	.00386	3.0364	-0.00034

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.07214	.00049	.00056	.00005	.00128
Stddev	.00005	.00006	.00014	.00013	.00006
%RSD	.07379	13.130	24.706	248.17	4.8524

#1	.07210	.00054	.00046	.00014	.00132
#2	.07217	.00045	.00066	-0.00004	.00123

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4523.8	7191.9	97538.	8262.9
Stddev	2.8	.4	506.	54.1
%RSD	.06251	.00512	.51903	.65498
#1	4521.8	7191.6	97180.	8301.2
#2	4525.8	7192.2	97896.	8224.7

Sample Name: 480-47938-A-3-A Acquired: 10/18/2013 17:00:47 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00026	.31464	.00172	.01859	.04589	-0.00009	45.771	.00006	-0.00001
Stddev	.00010	.01154	.00032	.00017	.00019	.00002	.109	.00005	.00005
%RSD	37.362	3.6678	18.372	.92977	.41900	26.015	.23916	97.084	933.80

#1	-0.00019	.30648	.00194	.01847	.04576	-0.00011	45.849	.00009	.00003
#2	-0.00032	.32280	.00149	.01872	.04603	-0.00007	45.694	.00002	-0.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00099	.00005	.39269	1.3826	1.5971	.00084	8.7820	.02091	.01867
Stddev	.00025	.00001	.00052	.0083	.0076	.00095	.0021	.00013	.00050
%RSD	25.727	18.491	.13321	.60325	.47404	112.88	.02366	.61701	2.7037

#1	.00116	.00004	.39232	1.3885	1.6024	.00017	8.7806	.02082	.01903
#2	.00081	.00005	.39306	1.3767	1.5917	.00151	8.7835	.02101	.01832

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	15.729	.00022	-0.00078	3.878	-0.00134	.00145	3.2086	-0.00043
Stddev	.00010	.039	.00016	.00047	.007	.00154	.00024	.0288	.00008
%RSD	154.81	.24562	72.967	60.065	.1871	115.12	16.830	.89800	19.871

#1	-0.00001	15.702	.00034	-0.0111	3.884	-0.00243	.00162	3.2289	-0.00049
#2	.00013	15.756	.00011	-0.0045	3.873	-0.00025	.00127	3.1882	-0.00037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.07583	.00318	.00188	.00054	.00361
Stddev	.00001	.00055	.00400	.00014	.00061
%RSD	.01745	17.424	212.35	26.305	16.975

#1	.07584	.00279	-0.00094	.00064	.00404
#2	.07582	.00358	.00471	.00044	.00318

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4517.7	7197.2	98511.	8347.7
Stddev	3.6	9.5	199.	50.4
%RSD	.07940	.13150	.20186	.60417

#1	4520.3	7203.9	98652.	8312.0
#2	4515.2	7190.5	98370.	8383.3

Sample Name: 480-47938-A-4-A Acquired: 10/18/2013 17:03:09 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00058	2.5485	.00223	.11799	.21471	-0.00004	81.762	.00134	.00152
Stddev	.00030	.0224	.00004	.00016	.00051	.00010	.188	.00002	.00000
%RSD	50.845	.87971	1.6783	.13925	.23549	248.69	.23052	1.1801	.26924

#1	.00079	2.5326	.00221	.11788	.21507	-0.00011	81.896	.00133	.00152
#2	.00037	2.5643	.00226	.11811	.21435	.00003	81.629	.00135	.00152

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00654	.00727	3.8552	7.3714	9.4585	.00467	14.226	2.8291	2.6939
Stddev	.00001	.00013	.0141	.0099	.0511	.00022	.039	.0019	.0176
%RSD	.12807	1.7457	.36520	.13420	.54011	4.6112	.27224	.06818	.65249

#1	.00653	.00718	3.8452	7.3784	9.4224	.00452	14.199	2.8277	2.6815
#2	.00655	.00736	3.8651	7.3644	9.4947	.00482	14.253	2.8304	2.7064

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00067	74.201	.00799	.00289	5.332	-0.00120	.00442	8.1091	.00043
Stddev	.00014	.434	.00030	.00132	.021	.00093	.00151	.0096	.00014
%RSD	21.171	.58511	3.7771	45.767	.3850	77.261	34.181	.11822	32.125

#1	.00057	73.894	.00778	.00195	5.317	-0.00055	.00335	8.1159	.00053
#2	.00077	74.508	.00820	.00382	5.346	-0.00186	.00549	8.1023	.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.18980	.02560	.00350	.00388	.01903
Stddev	.00128	.00052	.00299	.00015	.00005
%RSD	.67637	2.0455	85.395	3.8047	.28179

#1	.18889	.02523	.00139	.00398	.01899
#2	.19071	.02597	.00562	.00377	.01907

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4297.6	7060.7	95616.	8345.2
Stddev	7.3	2.1	115.	29.2
%RSD	.17009	.03043	.12021	.34965

#1	4302.7	7062.2	95697.	8324.5
#2	4292.4	7059.2	95535.	8365.8

Sample Name: 480-47938-A-5-A Acquired: 10/18/2013 17:05:35 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00016	.10297	.00219	.06896	.10057	-0.00009	63.960	.00022	.00003
Stddev	.00024	.02191	.00143	.00011	.00012	.00007	.193	.00001	.00001
%RSD	149.42	21.279	65.083	.15676	.11795	74.229	.30156	2.6411	30.518

#1	.00001	.08748	.00320	.06903	.10066	-0.00014	64.096	.00022	.00003
#2	-0.00034	.11846	.00118	.06888	.10049	-0.00004	63.824	.00021	.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	.00512	.65896	4.4007	5.3188	-0.00007	10.342	.34332	.31321
Stddev	.00001	.00010	.00198	.0518	.0241	.00096	.044	.00082	.00029
%RSD	.90930	1.9490	.29975	1.1780	.45323	1286.6	.42273	.23900	.09198

#1	.00069	.00505	.66036	4.3641	5.3358	-0.00075	10.373	.34390	.31300
#2	.00070	.00519	.65756	4.4374	5.3017	.00060	10.311	.34274	.31341

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00009	22.050	.00208	-0.00089	8.182	-0.00134	.00033	3.6697	-0.00026
Stddev	.00019	.084	.00008	.00073	.029	.00116	.00277	.0243	.00039
%RSD	210.00	.37954	3.7812	81.636	.3490	86.559	839.65	.66100	150.05

#1	.00004	22.109	.00213	-0.00141	8.202	-0.00216	-0.00163	3.6868	-0.00054
#2	-0.00023	21.991	.00202	-0.00038	8.162	-0.00052	.00229	3.6525	.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.18096	.00080	.00093	.00013	.00725
Stddev	.00050	.00003	.00200	.00007	.00007
%RSD	.27845	4.2919	214.90	49.618	.94004

#1	.18132	.00077	.00235	.00018	.00730
#2	.18061	.00082	-0.00048	.00009	.00720

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4445.5	7125.8	96968.	8239.1
Stddev	14.9	15.1	353.	31.4
%RSD	.33568	.21157	.36364	.38064

#1	4434.9	7115.1	96718.	8216.9
#2	4456.0	7136.4	97217.	8261.3

Sample Name: 480-47938-A-6-A Acquired: 10/18/2013 17:07:57 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00031	.13344	.00248	.03526	.06698	.00002	49.184	-0.00007	-0.00008
Stddev	.00038	.01996	.00075	.00032	.00038	.00006	.237	.00000	.00004
%RSD	120.82	14.960	30.287	.89867	.56069	326.20	.48165	4.6748	47.580

#1	-0.00005	.14755	.00301	.03548	.06672	-0.00002	49.351	-0.00007	-0.00011
#2	-0.00058	.11932	.00195	.03503	.06725	.00006	49.016	-0.00006	-0.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00071	.00014	.19439	2.6103	3.1375	.00048	8.2508	.00854	.00805
Stddev	.00001	.00003	.01184	.0157	.0174	.00039	.0279	.00001	.00038
%RSD	1.5043	18.751	6.0917	.60300	.55326	81.644	.33800	.16367	4.7762

#1	.00070	.00016	.18602	2.6214	3.1252	.00020	8.2705	.00853	.00832
#2	.00071	.00012	.20276	2.5991	3.1498	.00075	8.2311	.00855	.00778

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00005	18.555	.00049	-0.0136	5.092	.00028	.00011	3.9458	.00005
Stddev	.00001	.119	.00034	.00000	.003	.00074	.00316	.0272	.00033
%RSD	23.721	.64025	70.061	.36202	.0561	266.65	2813.7	.68797	638.28

#1	-0.00004	18.639	.00025	-0.0136	5.094	.00080	.00235	3.9650	.00028
#2	-0.00006	18.471	.00073	-0.0136	5.090	-0.00025	-0.00212	3.9266	-0.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.12524	.00145	.00067	.00030	.00331
Stddev	.00028	.00039	.00365	.00020	.00015
%RSD	.22495	26.795	547.09	66.190	4.6322

#1	.12504	.00172	.00325	.00044	.00320
#2	.12544	.00117	-.00192	.00016	.00342

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4506.5	7183.9	97617.	8333.6
Stddev	2.4	8.8	324.	3.0
%RSD	.05285	.12309	.33153	.03609

#1	4508.1	7190.1	97846.	8335.7
#2	4504.8	7177.6	97388.	8331.5

Sample Name: CCV Acquired: 10/18/2013 17:10:21 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48501	24.633	.50071	.48150	.49940	.50139	24.206	.49428	.48863	.47859	.47752	24.631
Stddev	.00157	.053	.00086	.00179	.00089	.00177	.048	.00045	.00121	.00444	.00455	.086
%RSD	.32407	.21486	.17204	.37075	.17809	.35298	.20015	.09070	.24818	.92746	.95329	.34916

#1	.48612	24.670	.50010	.48024	.49877	.50264	24.172	.49459	.48949	.48173	.48074	24.692
#2	.48390	24.595	.50131	.48277	.50003	.50013	24.241	.49396	.48777	.47545	.47430	24.570

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.895	27.115	.49496	23.912	.50062	.46286	.48739	24.249	.49682	.49670	26.20	.52100
Stddev	.062	.251	.00082	.074	.00071	.00181	.00091	.030	.00042	.00050	.01	.00274
%RSD	.24831	.92649	.16634	.31065	.14173	.39202	.18693	.12511	.08412	.10113	.0358	.52639

#1	24.851	26.937	.49554	23.964	.50112	.46414	.48803	24.227	.49711	.49635	26.20	.51906
#2	24.939	27.292	.49437	23.859	.50011	.46157	.48674	24.270	.49652	.49706	26.19	.52294

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48904	24.008	.48354	.50136	.48132	.50573	.46559	.46989
Stddev	.00195	.009	.00300	.00086	.00357	.00074	.00428	.00326
%RSD	.39812	.03547	.62055	.17153	.74248	.14619	.91943	.69431

#1	.48767	24.014	.48566	.50197	.48385	.50521	.46862	.47220
#2	.49042	24.002	.48142	.50075	.47880	.50625	.46257	.46758

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4435.5	7305.9	98615.	8295.1
Stddev	1.1	12.0	512.	17.9
%RSD	.02384	.16428	.51932	.21588
#1	4434.8	7314.4	98252.	8307.7
#2	4436.3	7297.4	98977.	8282.4

Sample Name: CCB Acquired: 10/18/2013 17:12:44 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00006	.01609	.00286	.00014	-0.00006	-0.00002	-0.00546	-0.00008	-0.00009	.00003	-0.00090	-0.01430
Stddev	.00069	.01821	.00131	.00041	.00000	.00005	.00143	.00001	.00006	.00003	.00007	.00140
%RSD	1120.1	113.18	45.674	296.73	5.8253	345.74	26.290	14.822	66.391	108.96	7.5925	9.7721

#1	-0.00055	.00321	.00378	.00042	-0.00006	.00002	-0.00647	-0.00009	-0.00005	.00006	-0.00085	-0.01529
#2	.00043	.02896	.00194	-0.00015	-0.00006	-0.00005	-0.00444	-0.00007	-0.00014	.00001	-0.00095	-0.01332

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00257	.00282	-0.00036	.00002	-0.00010	.00002	.00040	-0.00439	.00004	-0.00011	.0013	-0.00033
Stddev	.03044	.00038	.00032	.00257	.00001	.00074	.00020	.00516	.00001	.00099	.0024	.00100
%RSD	1182.8	13.442	87.017	16550.	14.871	4882.6	51.044	117.51	16.143	938.44	182.6	304.26

#1	-.01895	.00309	-0.00014	-.00180	-0.00011	.00053	.00026	-0.00074	.00004	.00059	.0030	-.00103
#2	.02410	.00256	-0.00059	.00184	-0.00009	-0.00050	.00055	-0.00803	.00004	-0.00080	-0.0004	.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												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00002	-0.00481	-0.00003	-0.00016	.00023	-0.00003	.00015	.00932
Stddev	.00192	.01253	.00015	.00010	.00008	.00122	.00005	.00019
%RSD	9824.9	260.74	513.87	65.675	36.247	3601.2	34.780	2.0846

#1	-.00138	.00406	-0.00014	-0.00023	.00029	.00083	.00011	.00946
#2	.00134	-.01367	.00008	-0.00008	.00017	-0.00090	.00018	.00918

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4757.8	7379.1	100310.	8210.7
Stddev	1.9	1.8	558.	19.2
%RSD	.03904	.02405	.55577	.23395
#1	4756.4	7377.9	99918.	8197.1
#2	4759.1	7380.4	100710.	8224.3

Sample Name: CCVL Acquired: 10/18/2013 17:15:11 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00254	.23684	.01030	.01966	.00200	.00202	.49342	.00089	.00385	.00325	.00891	.04233
Stddev	.00054	.01787	.00132	.00064	.00001	.00011	.00281	.00002	.00006	.00003	.00001	.00035
%RSD	21.179	7.5432	12.824	3.2744	.32072	5.6685	.57045	1.8257	1.4286	1.0605	.16164	.82548

#1	.00292	.24948	.00937	.02011	.00201	.00211	.49143	.00088	.00382	.00328	.00890	.04258
#2	.00216	.22421	.01123	.01920	.00200	.00194	.49542	.00090	.00389	.00323	.00892	.04208

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.44733	.43782	F .00234	.20193	.00305	.00225	.01006	.90448	.00997	.00526	F .0023	.01987
Stddev	.04744	.00096	.00112	.00464	.00002	.00023	.00017	.01122	.00015	.00017	.0021	.00026
%RSD	10.606	.21898	47.935	2.2985	.59505	9.9801	1.6730	1.2406	1.4630	3.2552	89.41	1.3144

#1	.41379	.43850	.00313	.19865	.00304	.00210	.00994	.89655	.00987	.00539	.0009	.01968
#2	.48088	.43714	.00154	.20521	.00307	.00241	.01018	.91242	.01008	.00514	.0038	.02005

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01465	.48868	.00937	.00514	.00459	.02152	.00458	.00997
Stddev	.00105	.02710	.00029	.00032	.00029	.00117	.00005	.00004
%RSD	7.1864	5.5465	3.0779	6.2369	6.3812	5.4419	1.0975	.42920

#1	.01540	.50784	.00916	.00492	.00438	.02235	.00454	.01000
#2	.01391	.46951	.00957	.00537	.00479	.02069	.00461	.00994

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4773.4	7413.0	101080.	8271.2
Stddev	10.2	5.8	352.	14.3
%RSD	.21453	.07808	.34844	.17331

#1	4780.6	7417.1	100830.	8281.4
#2	4766.1	7408.9	101330.	8261.1

Sample Name: 480-47938-A-7-A Acquired: 10/18/2013 17:17:35 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00076	.31205	.00259	.02771	.06242	-0.00007	54.215	-0.00004	-0.00003
Stddev	.00043	.01264	.00070	.00058	.00019	.00001	.112	.00006	.00008
%RSD	57.280	4.0499	26.976	2.1041	.30062	13.684	.20653	148.07	245.09

#1	-0.00045	.32098	.00210	.02730	.06229	-0.00007	54.294	.00000	.00002
#2	-0.0106	.30311	.00308	.02812	.06255	-0.00006	54.136	-0.00008	-0.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00099	.00000	.33397	1.9947	2.5076	.00049	10.090	.01531	.01407
Stddev	.00046	.00012	.00148	.0255	.0130	.00082	.002	.00013	.00012
%RSD	46.284	15522.	.44438	1.2759	.51859	167.01	.01996	.81933	.86563

#1	.00131	-0.00008	.33292	2.0127	2.4984	.00107	10.091	.01540	.01416
#2	.00066	.00008	.33502	1.9767	2.5168	-0.00009	10.088	.01522	.01399

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	22.446	.00034	-0.00064	4.056	-0.00042	.00206	4.0772	-0.00040
Stddev	.00017	.078	.00012	.00104	.013	.00158	.00078	.0104	.00017
%RSD	379.99	.34757	35.765	162.19	.3176	377.39	37.886	.25392	43.194

#1	.00017	22.501	.00042	.00009	4.065	-0.0154	.00150	4.0699	-0.00052
#2	-0.00008	22.391	.00025	-0.0138	4.047	.00070	.00261	4.0845	-0.00028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09895	.00262	.00054	.00046	.00279
Stddev	.00011	.00030	.00215	.00025	.00038
%RSD	.11017	11.489	396.42	54.885	13.546

#1	.09903	.00283	-0.00098	.00063	.00252
#2	.09888	.00240	.00206	.00028	.00306

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4473.4	7169.5	97327.	8242.9
Stddev	4.0	3.1	263.	5.5
%RSD	.09011	.04307	.27015	.06663

#1	4476.3	7171.7	97141.	8246.8
#2	4470.6	7167.3	97513.	8239.1

Sample Name: 480-47938-A-7-A SD@5 Acquired: 10/18/2013 17:19:57 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00030	.07887	.00073	.00546	.01283	-0.00007	10.933	-0.00006	-0.00004
Stddev	.00018	.00934	.00018	.00014	.00002	.00008	.006	.00001	.00003
%RSD	59.675	11.848	25.061	2.5016	.13217	110.24	.05824	11.503	68.406

#1	-0.00043	.07226	.00060	.00537	.01282	-0.00002	10.937	-0.00005	-0.00002
#2	-0.00017	.08548	.00085	.00556	.01284	-0.00013	10.928	-0.00006	-0.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00029	-0.00067	.06130	.36308	.39804	-0.00067	2.0298	.00306	.00238
Stddev	.00011	.00004	.00457	.01633	.00147	.00126	.0011	.00008	.00003
%RSD	38.099	5.7221	7.4613	4.4971	.37005	188.27	.05436	2.6344	1.1423

#1	.00037	-0.00069	.05806	.35154	.39909	.00022	2.0290	.00312	.00236
#2	.00022	-0.00064	.06453	.37463	.39700	-0.00156	2.0305	.00301	.00240

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00002	4.3281	.00013	.00007	.7815	-0.00059	-0.00051	.80291	-0.00014
Stddev	.00028	.0025	.00011	.00009	.0055	.00046	.00237	.00354	.00019
%RSD	1550.0	.05874	81.580	143.60	.7097	78.496	460.01	.44133	129.69

#1	.00018	4.3263	.00005	-0.00000	.7854	-0.00026	.00116	.80041	-0.00001
#2	-0.00022	4.3299	.00020	.00013	.7775	-0.00091	-0.00219	.80542	-0.00028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01997	.00064	-0.00042	.00029	.00058
Stddev	.00018	.00001	.00093	.00002	.00011
%RSD	.92230	1.1967	223.40	5.9331	19.397

#1	.02010	.00063	.00024	.00030	.00066
#2	.01984	.00064	-0.00107	.00027	.00050

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4703.5	7338.2	99813.	8279.2
Stddev	2.9	.3	43.	22.2
%RSD	.06174	.00416	.04323	.26757

#1	4705.5	7338.0	99843.	8263.6
#2	4701.4	7338.5	99782.	8294.9

Sample Name: 480-47938-A-7-A PDS Acquired: 10/18/2013 17:22:21 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04915	10.972	.21094	.24073	.27086	.21186	62.926	.20826	.20611
Stddev	.00012	.065	.00093	.00051	.00012	.00057	.388	.00097	.00053
%RSD	.25285	.58955	.44066	.21212	.04400	.27140	.61598	.46361	.25837

#1	.04924	11.017	.21159	.24109	.27094	.21226	63.200	.20894	.20649
#2	.04907	10.926	.21028	.24037	.27077	.21145	62.652	.20758	.20574

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20200	.20236	10.690	12.750	15.100	.22266	20.194	.22114	.20471
Stddev	.00031	.00005	.041	.155	.007	.00327	.120	.00034	.00075
%RSD	.15469	.02322	.38452	1.2165	.04463	1.4700	.59257	.15335	.36627

#1	.20178	.20233	10.719	12.859	15.096	.22498	20.110	.22090	.20524
#2	.20222	.20239	10.661	12.640	15.105	.22035	20.279	.22138	.20418

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20710	32.976	.20641	.20724	3.918	.21208	.21089	14.438	.19663
Stddev	.00057	.353	.00055	.00020	.019	.00321	.00111	.117	.00005
%RSD	.27693	1.0710	.26595	.09451	.4744	1.5132	.52503	.81282	.02539

#1	.20751	33.225	.20680	.20710	3.905	.20981	.21011	14.521	.19666
#2	.20670	32.726	.20603	.20738	3.931	.21435	.21167	14.355	.19659

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.31063	.19680	.21244	.19974	.19747
Stddev	.00037	.00036	.00224	.00044	.00091
%RSD	.11993	.18064	1.0554	.21988	.45941

#1	.31089	.19705	.21402	.19943	.19683
#2	.31036	.19655	.21085	.20005	.19811

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4360.2	7192.5	96702.	8291.5
Stddev	8.8	3.6	207.	19.1
%RSD	.20201	.04960	.21363	.23079

#1	4366.5	7195.1	96848.	8278.0
#2	4354.0	7190.0	96556.	8305.1

Sample Name: 480-47938-A-7-B MS Acquired: 10/18/2013 17:24:41 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04852	10.492	.20834	.23256	.25978	.20714	63.708	.20350	.20005
Stddev	.00050	.093	.00168	.00086	.00102	.00040	.197	.00001	.00011
%RSD	1.0319	.88621	.80441	.36880	.39110	.19112	.30848	.00564	.05495

#1	.04887	10.557	.20715	.23317	.25906	.20742	63.570	.20351	.19998
#2	.04817	10.426	.20952	.23196	.26050	.20686	63.847	.20349	.20013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19268	.19357	10.493	12.176	14.596	.20582	20.090	.21493	.19795
Stddev	.00116	.00123	.058	.022	.027	.00113	.020	.00022	.00084
%RSD	.60027	.63571	.55205	.18397	.18703	.54873	.09777	.10304	.42376

#1	.19187	.19270	10.452	12.192	14.615	.20662	20.076	.21477	.19854
#2	.19350	.19444	10.534	12.160	14.576	.20502	20.104	.21509	.19736

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20286	32.583	.20188	.19999	F 15.22	.20975	.20729	13.925	.19275
Stddev	.00012	.070	.00121	.00115	.02	.00136	.00022	.043	.00073
%RSD	.05946	.21482	.60047	.57675	.1094	.64646	.10530	.30894	.37656

#1	.20294	32.632	.20102	.19917	15.21	.21071	.20745	13.895	.19327
#2	.20277	32.533	.20274	.20080	15.24	.20879	.20714	13.955	.19224

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.30778	.19167	.20385	.18762	.18701
Stddev	.00081	.00098	.00196	.00131	.00168
%RSD	.26377	.51314	.96358	.69803	.89885

#1	.30835	.19098	.20246	.18670	.18582
#2	.30721	.19237	.20523	.18855	.18820

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4336.7	7155.1	97515.	8259.6
Stddev	.4	7.4	288.	43.4
%RSD	.00897	.10346	.29500	.52579

#1	4337.0	7149.9	97719.	8290.3
#2	4336.4	7160.3	97312.	8228.9

Sample Name: 480-47938-A-7-C MSD Acquired: 10/18/2013 17:27:00 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04979	10.471	.20768	.23004	.25861	.20766	64.109	.20294	.20037
Stddev	.00053	.043	.00126	.00015	.00009	.00004	.383	.00034	.00017
%RSD	1.0740	.40864	.60798	.06526	.03448	.01827	.59803	.16661	.08636

#1	.05017	10.440	.20678	.22993	.25855	.20763	63.837	.20270	.20049
#2	.04941	10.501	.20857	.23014	.25868	.20768	64.380	.20318	.20025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19280	.19369	10.518	12.222	14.572	.20556	20.041	.21511	.19837
Stddev	.00140	.00009	.062	.066	.026	.00036	.051	.00043	.00010
%RSD	.72865	.04658	.58775	.54353	.17970	.17453	.25549	.20063	.05261

#1	.19380	.19363	10.475	12.175	14.554	.20531	20.077	.21542	.19830
#2	.19181	.19376	10.562	12.269	14.591	.20581	20.005	.21481	.19844

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20250	32.664	.20147	.20198	F 15.14	.20885	.20571	14.038	.19390
Stddev	.00049	.105	.00078	.00214	.07	.00051	.00301	.045	.00012
%RSD	.24286	.32220	.38791	1.0605	.4376	.24472	1.4633	.32175	.06252

#1	.20285	32.590	.20203	.20349	15.19	.20849	.20784	14.006	.19382
#2	.20216	32.739	.20092	.20046	15.10	.20921	.20358	14.070	.19399

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.30532	.19366	.20619	.18780	.18721
Stddev	.00020	.00130	.00185	.00040	.00016
%RSD	.06685	.67046	.89599	.21149	.08528

#1	.30518	.19458	.20489	.18808	.18733
#2	.30547	.19275	.20750	.18752	.18710

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4344.9	7172.8	97529.	8252.3
Stddev	5.7	1.4	299.	48.1
%RSD	.13153	.01918	.30658	.58325

#1	4340.8	7173.7	97317.	8286.3
#2	4348.9	7171.8	97740.	8218.3

Sample Name: 480-47938-A-8-A Acquired: 10/18/2013 17:29:20 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00015	.92541	.00150	.02484	.05840	-0.00000	58.740	.00007	.00017
Stddev	.00012	.01033	.00156	.00059	.00016	.00017	.213	.00021	.00005
%RSD	75.895	1.1166	103.70	2.3879	.27697	4581.2	.36291	301.35	30.490

#1	-0.00024	.93272	.00040	.02526	.05852	-0.00012	58.589	.00022	.00013
#2	-0.00007	.91810	.00260	.02443	.05829	.00011	58.891	-0.00008	.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00192	.00092	1.0450	2.0022	2.4535	.00511	11.862	.06051	.05443
Stddev	.00027	.00007	.0013	.0030	.0128	.00038	.035	.00034	.00087
%RSD	14.272	7.8130	.12489	.14852	.52251	7.5306	.29625	.55596	1.5901

#1	.00212	.00097	1.0459	2.0043	2.4445	.00538	11.887	.06075	.05504
#2	.00173	.00087	1.0441	2.0001	2.4626	.00483	11.837	.06027	.05382

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00027	28.346	.00086	-0.00079	4.835	.00007	.00297	4.5838	-0.00040
Stddev	.00020	.020	.00054	.00082	.014	.00161	.00435	.0375	.00027
%RSD	75.339	.06980	62.281	103.12	.2979	2153.2	146.58	.81829	67.381

#1	.00041	28.332	.00048	-0.00021	4.845	.00121	-0.00011	4.5573	-0.00021
#2	.00013	28.360	.00124	-0.00137	4.825	-0.00106	.00604	4.6103	-0.00059

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.10555	.01454	.00036	.00145	.00519
Stddev	.00074	.00286	.00022	.00012	.00015
%RSD	.69866	19.675	61.277	8.4721	2.9230

#1	.10607	.01657	.00052	.00154	.00529
#2	.10503	.01252	.00020	.00136	.00508

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4437.2	7144.6	97558.	8311.1
Stddev	.3	.6	500.	14.0
%RSD	.00632	.00853	.51301	.16904

#1	4437.4	7145.0	97204.	8321.0
#2	4437.0	7144.1	97912.	8301.1

Sample Name: 480-47938-A-9-A Acquired: 10/18/2013 17:31:41 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00066	.33653	.00273	.02888	.06303	-0.00008	55.078	.00003	-0.00001
Stddev	.00075	.00093	.00140	.00008	.00012	.00013	.145	.00008	.00007
%RSD	114.80	.27713	51.161	.27116	.19522	157.42	.26387	304.62	546.11

#1	-0.00119	.33587	.00174	.02883	.06294	-0.00017	55.181	-0.00003	.00004
#2	-0.00012	.33719	.00372	.02894	.06311	.00001	54.976	.00009	-0.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00071	.00015	.35861	2.0406	2.5212	.00089	10.213	.01657	.01471
Stddev	.00002	.00010	.00186	.0039	.0080	.00002	.010	.00004	.00044
%RSD	3.0105	66.664	.51853	.19316	.31671	2.6108	.09525	.24870	3.0200

#1	.00073	.00008	.35992	2.0379	2.5155	.00088	10.206	.01660	.01439
#2	.00070	.00022	.35729	2.0434	2.5268	.00091	10.220	.01654	.01502

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	22.498	.00053	-0.00045	4.067	-0.00023	.00085	4.1235	-0.00038
Stddev	.00005	.096	.00018	.00178	.018	.00157	.00161	.0004	.00034
%RSD	19.641	.42852	33.116	396.75	.4395	682.64	190.01	.01082	89.709

#1	.00027	22.566	.00041	.00081	4.054	-0.00134	.00199	4.1232	-0.00014
#2	.00020	22.429	.00066	-0.00170	4.080	.00088	-0.00029	4.1238	-0.00062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.10011	.00397	-0.00121	.00021	.00215
Stddev	.00036	.00054	.00044	.00009	.00024
%RSD	.35723	13.585	36.277	44.584	11.389

#1	.09986	.00435	-0.00152	.00014	.00232
#2	.10036	.00359	-0.00090	.00028	.00197

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4453.3	7138.3	97222.	8207.6
Stddev	5.0	16.9	106.	9.2
%RSD	.11258	.23666	.10878	.11209

#1	4456.8	7150.3	97147.	8214.1
#2	4449.7	7126.4	97297.	8201.1

Sample Name: 480-47918-E-1-A Acquired: 10/18/2013 17:34:03 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00040	.80669	.00353	.04275	.02880	-0.00003	41.630	.00006	.00016
Stddev	.00009	.02396	.00050	.00037	.00004	.00004	.056	.00006	.00012
%RSD	22.801	2.9705	14.071	.87319	.14599	142.13	.13456	103.72	77.270

#1	-0.00034	.78974	.00388	.04249	.02877	.00000	41.590	.00011	.00007
#2	-0.00047	.82363	.00318	.04302	.02883	-0.00005	41.670	.00002	.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00125	.00160	.64593	3.0862	4.2494	.00236	27.036	.05523	.05075
Stddev	.00007	.00004	.01225	.0285	.0154	.00074	.006	.00029	.00112
%RSD	5.8789	2.2628	1.8962	.92447	.36149	31.383	.02134	.52801	2.2029

#1	.00119	.00157	.63727	3.1064	4.2603	.00184	27.032	.05502	.05154
#2	.00130	.00162	.65459	3.0660	4.2386	.00289	27.040	.05544	.04996

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00131	76.896	.00094	.00049	6.544	-0.00091	-0.00320	2.9330	-0.00002
Stddev	.00003	.228	.00057	.00022	.006	.00063	.00093	.0049	.00007
%RSD	2.6620	.29685	60.184	45.465	.0914	69.101	29.157	.16855	364.05

#1	.00133	77.057	.00134	.00033	6.548	-0.00136	-0.00254	2.9295	-0.00007
#2	.00128	76.735	.00054	.00065	6.540	-0.00047	-0.00386	2.9365	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.10990	.01400	.00189	.00212	.00412
Stddev	.00004	.00069	.00265	.00027	.00003
%RSD	.03254	4.9561	140.17	12.734	.69480

#1	.10992	.01449	.00377	.00231	.00410
#2	.10987	.01351	.00002	.00193	.00414

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4332.6	7058.9	95665.	8261.4
Stddev	3.5	1.5	296.	5.6
%RSD	.08042	.02145	.30971	.06826

#1	4330.1	7057.9	95874.	8265.4
#2	4335.1	7060.0	95455.	8257.5

Sample Name: 480-47918-E-2-A Acquired: 10/18/2013 17:36:25 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00040	.75955	.00510	.04150	.02868	-.00000	41.453	.00004	.00009
Stddev	.00003	.02091	.00023	.00030	.00007	.00004	.032	.00008	.00003
%RSD	7.3502	2.7534	4.5049	.72519	.22835	5428.4	.07839	184.52	34.772

#1	.00042	.77434	.00494	.04129	.02872	-.00003	41.476	.00010	.00011
#2	.00037	.74476	.00526	.04171	.02863	.00003	41.430	-.00001	.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00132	.00172	.61247	3.1436	4.2182	.00224	26.673	.05485	.05075
Stddev	.00001	.00014	.00072	.0185	.0053	.00049	.052	.00006	.00039
%RSD	.87782	8.2056	.11710	.58688	.12627	21.698	.19499	.10164	.77410

#1	.00132	.00182	.61298	3.1306	4.2219	.00258	26.710	.05489	.05102
#2	.00131	.00162	.61196	3.1566	4.2144	.00190	26.637	.05481	.05047

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00107	75.850	.00136	.00008	6.366	-.00022	.00230	2.8975	-.00027
Stddev	.00014	.037	.00016	.00059	.002	.00180	.00104	.0170	.00056
%RSD	13.069	.04816	11.850	766.70	.0318	832.25	44.953	.58733	206.34

#1	.00117	75.824	.00125	-.00034	6.367	-.00149	.00304	2.9096	-.00067
#2	.00097	75.876	.00148	.00049	6.364	.00105	.00157	2.8855	.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.10759	.01294	-.00106	.00208	.00387
Stddev	.00083	.00022	.00063	.00039	.00018
%RSD	.76690	1.7160	59.336	19.022	4.7787

#1	.10818	.01278	-.00150	.00236	.00400
#2	.10701	.01310	-.00061	.00180	.00374

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4336.1	7066.6	95426.	8239.6
Stddev	3.1	16.1	349.	20.6
%RSD	.07128	.22808	.36606	.24948

#1	4338.3	7078.0	95179.	8225.1
#2	4333.9	7055.2	95673.	8254.2

Sample Name: CCV Acquired: 10/18/2013 17:38:48 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48746	24.701	.49754	.48138	.49914	.49924	24.074	.49503	.48867	.48154	.47847	24.572
Stddev	.00386	.184	.00286	.00051	.00160	.00033	.179	.00024	.00073	.00597	.00031	.082
%RSD	.79129	.74659	.57527	.10587	.32083	.06571	.74552	.04792	.14876	1.2407	.06545	.33202

#1	.49019	24.571	.49552	.48174	.49801	.49900	23.947	.49486	.48815	.48576	.47869	24.514
#2	.48473	24.831	.49956	.48102	.50027	.49947	24.201	.49519	.48918	.47731	.47825	24.629

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.985	27.111	.49644	24.055	.50283	.46601	.48781	24.407	.49719	.49879	26.16	.51943
Stddev	.151	.443	.00321	.109	.00198	.00717	.00062	.134	.00078	.00067	.08	.00098
%RSD	.60343	1.6340	.64638	.45370	.39370	1.5376	.12679	.54915	.15716	.13480	.2943	.18816

#1	24.879	26.798	.49417	24.132	.50423	.47107	.48738	24.313	.49774	.49926	26.10	.52012
#2	25.092	27.424	.49871	23.978	.50143	.46094	.48825	24.502	.49664	.49831	26.21	.51874

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48975	23.942	.48126	.50046	.48324	.50596	.46788	.47415
Stddev	.00448	.163	.00021	.00194	.00262	.00258	.00304	.00628
%RSD	.91542	.68072	.04364	.38750	.54138	.50950	.64881	1.3246

#1	.48658	23.827	.48141	.49909	.48509	.50414	.47003	.47860
#2	.49292	24.057	.48111	.50183	.48139	.50779	.46574	.46971

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4425.3	7297.3	97842.	8338.7
Stddev	12.1	10.6	441.	65.6
%RSD	.27325	.14495	.45109	.78650
#1	4433.8	7304.8	97530.	8385.1
#2	4416.7	7289.8	98154.	8292.3

Sample Name: CCB Acquired: 10/18/2013 17:41:09 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00033	.03348	.00245	.00006	-.00004	-.00005	-.00368	.00002	-.00007	.00012	-.00074	-.00683
Stddev	.00026	.03084	.00202	.00012	.00003	.00004	.00516	.00003	.00003	.00015	.00002	.00265
%RSD	79.343	92.129	82.375	212.65	65.805	77.214	140.27	143.12	39.862	125.04	2.5927	38.757

#1	-.00015	.01167	.00388	.00014	-.00002	-.00008	-.00003	.00004	-.00005	.00023	-.00075	-.00496
#2	-.00052	.05529	.00102	-.00003	-.00006	-.00002	-.00733	-.00000	-.00009	.00001	-.00072	-.00870

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.05120	.00184	-.00040	.00025	-.00006	.00004	.00015	.00403	-.00007	-.00021	F .0038	-.00106
Stddev	.02365	.00004	.00036	.00311	.00006	.00061	.00001	.00749	.00032	.00002	.0012	.00076
%RSD	46.191	2.2916	89.729	1241.0	90.178	1549.0	6.0736	185.85	433.87	8.9361	30.36	72.016

#1	-.03448	.00187	-.00015	-.00195	-.00010	-.00039	.00015	-.00127	.00015	-.00020	.0047	-.00160
#2	-.06793	.00181	-.00066	.00245	-.00002	.00047	.00016	.00933	-.00030	-.00022	.0030	-.00052

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00142	-.01728	.00015	-.00008	.00011	.00091	.00007	.00906
Stddev	.00134	.00285	.00011	.00003	.00007	.00082	.00003	.00038
%RSD	94.584	16.496	78.102	46.177	64.275	90.164	39.747	4.2082

#1	.00047	-.01930	.00023	-.00005	.00006	.00148	.00005	.00879
#2	.00237	-.01527	.00007	-.00010	.00017	.00033	.00008	.00933

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4752.2	7364.1	100670.	8225.3
Stddev	4.5	.3	257.	1.7
%RSD	.09531	.00428	.25550	.02076
#1	4755.4	7364.3	100490.	8224.1
#2	4749.0	7363.8	100850.	8226.5

Sample Name: CCVL Acquired: 10/18/2013 17:43:35 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00275	.22620	.01093	.01958	.00199	.00200	.49560	.00091	.00394	.00390	.00865	.04532
Stddev	.00016	.00999	.00005	.00017	.00000	.00004	.00107	.00010	.00003	.00029	.00012	.00157
%RSD	5.8269	4.4161	.44805	.88485	.18956	1.8280	.21672	11.192	.66676	7.5370	1.3755	3.4703

#1	.00264	.21913	.01096	.01970	.00199	.00197	.49636	.00098	.00392	.00369	.00874	.04421
#2	.00286	.23326	.01089	.01946	.00198	.00202	.49484	.00084	.00396	.00411	.00857	.04643

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.43224	.43966	F .00206	.19878	.00307	.00302	.01024	.90321	.00987	.00470	F .0011	.02147
Stddev	.01553	.00220	.00053	.00202	.00003	.00023	.00001	.00238	.00029	.00087	.0007	.00055
%RSD	3.5920	.50104	25.681	1.0176	1.0824	7.5958	.12915	.26394	2.9537	18.476	63.63	2.5447

#1	.42126	.44122	.00169	.20021	.00309	.00286	.01025	.90490	.00966	.00532	.0016	.02108
#2	.44321	.43811	.00244	.19735	.00304	.00318	.01023	.90153	.01007	.00409	.0006	.02186

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01500	.47034	.00896	.00521	.00484	.02021	.00451	.00966
Stddev	.00028	.01287	.00030	.00010	.00006	.00156	.00009	.00031
%RSD	1.8583	2.7361	3.3713	1.9587	1.2350	7.7225	1.9850	3.2521

#1	.01480	.47944	.00918	.00514	.00488	.01911	.00457	.00988
#2	.01519	.46124	.00875	.00529	.00479	.02132	.00444	.00944

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4761.7	7397.0	101130.	8218.6
Stddev	5.1	7.1	445.	8.6
%RSD	.10704	.09569	.43991	.10516
#1	4758.1	7392.0	100810.	8212.5
#2	4765.3	7402.0	101440.	8224.7

Sample Name: 480-47918-E-3-A Acquired: 10/18/2013 17:46:00 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00032	.13373	.00346	.11386	.09695	-.00012	96.187	.00014	.00022
Stddev	.00061	.00164	.00342	.00036	.00013	.00002	.142	.00001	.00020
%RSD	191.70	1.2263	98.871	.31279	.13871	19.750	.14792	5.7768	88.554

#1	.00075	.13257	.00104	.11411	.09705	-.00013	96.288	.00013	.00036
#2	-.00011	.13489	.00588	.11360	.09686	-.00010	96.087	.00014	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00099	.00044	.63663	5.7765	7.8752	.00402	43.354	.95026	.90095
Stddev	.00035	.00013	.00060	.0628	.1129	.00077	.086	.00090	.00226
%RSD	35.260	28.715	.09420	1.0876	1.4334	19.190	.19945	.09501	.25098

#1	.00074	.00035	.63620	5.7320	7.7954	.00457	43.293	.94962	.89935
#2	.00124	.00053	.63705	5.8209	7.9550	.00348	43.415	.95089	.90255

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00099	83.483	.00122	-.00236	F 17.80	-.00164	.00153	5.2165	-.00001
Stddev	.00010	.147	.00002	.00013	.05	.00130	.00015	.0261	.00036
%RSD	10.070	.17616	1.6946	5.6316	.2856	79.178	9.8411	.49977	4136.2

#1	.00106	83.379	.00121	-.00246	17.84	-.00256	.00163	5.1981	-.00027
#2	.00092	83.587	.00124	-.00227	17.77	-.00072	.00142	5.2350	.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19547	.00300	-.00079	.00019	.00687
Stddev	.00044	.00000	.00039	.00010	.00003
%RSD	.22595	.07225	49.424	53.065	.39529

#1	.19515	.00301	-.00106	.00012	.00685
#2	.19578	.00300	-.00051	.00026	.00689

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4212.2	6933.1	94174.	8231.9
Stddev	6.4	12.7	131.	12.3
%RSD	.15187	.18329	.13898	.14935

#1	4207.7	6924.1	94266.	8223.2
#2	4216.8	6942.1	94081.	8240.6

Sample Name: 480-47922-P-1-A Acquired: 10/18/2013 17:48:26 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00028	.05031	.00421	.30684	.08105	-0.00010	48.553	.00004	-0.00008
Stddev	.00001	.02454	.00069	.00060	.00019	.00003	.133	.00003	.00010
%RSD	4.6901	48.787	16.287	.19566	.23815	32.937	.27303	60.656	125.03

#1	-0.00027	.06766	.00372	.30641	.08091	-0.00012	48.647	.00002	-0.00001
#2	-0.00029	.03295	.00469	.30726	.08118	-0.00007	48.460	.00006	-0.00016

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	.00866	1.0677	1.5763	2.0873	.00864	37.023	.01085	.00969
Stddev	.00027	.00035	.0061	.0075	.0018	.00022	.032	.00002	.00097
%RSD	39.202	4.0973	.57186	.47322	.08437	2.5285	.08728	.16636	10.050

#1	.00050	.00841	1.0634	1.5816	2.0861	.00849	37.000	.01084	.00900
#2	.00088	.00891	1.0720	1.5710	2.0886	.00880	37.046	.01086	.01038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02105	41.822	.00362	-0.00157	F 14.83	-0.00039	.00193	9.2929	.00018
Stddev	.00017	.170	.00003	.00056	.00	.00158	.00175	.0236	.00023
%RSD	.79550	.40674	.80911	35.656	.0313	401.45	90.757	.25355	128.21

#1	.02117	41.702	.00364	-0.00197	14.83	.00072	.00069	9.3096	.00034
#2	.02093	41.943	.00360	-0.00117	14.83	-0.00151	.00317	9.2763	.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0721	.00046	.00129	-0.00021	.07407
Stddev	.0008	.00024	.00110	.00003	.00126
%RSD	.07846	52.627	85.156	16.317	1.7074

#1	1.0727	.00063	.00051	-0.00018	.07318
#2	1.0715	.00029	.00206	-0.00023	.07496

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4359.9	7086.4	96633.	8301.1
Stddev	4.9	7.9	270.	29.7
%RSD	.11171	.11184	.27900	.35778

#1	4363.4	7092.0	96824.	8280.1
#2	4356.5	7080.8	96443.	8322.1

Sample Name: 480-47957-B-1-A Acquired: 10/18/2013 17:50:47 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0024	.44165	.01249	10.733	.33798	-0.0001	202.29	.00057	.02302
Stddev	.00021	.01546	.00387	.003	.00071	.00006	.66	.00000	.00008
%RSD	86.463	3.5014	31.021	.02990	.21099	697.70	.32584	.83665	.32952

#1	-0.00009	.45258	.01522	10.731	.33848	-0.00005	202.76	.00058	.02296
#2	-0.00039	.43071	.00975	10.736	.33748	.00003	201.83	.00057	.02307

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05727	.01229	19.367	554.25	^ *****	.10736	210.01	.92493	.99236
Stddev	.00059	.00011	.010	3.03	----	.00076	.38	.00281	.00139
%RSD	1.0300	.87255	.05152	.54606	----	.71145	.17916	.30391	.14040

#1	.05769	.01222	19.374	556.39	^ -----	.10790	210.28	.92692	.99334
#2	.05685	.01237	19.360	552.11	^ -----	.10682	209.74	.92294	.99137

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00342	1262.9	.17360	.00075	F 40.02	.00318	.00663	14.179	.00962
Stddev	.00012	7.5	.00013	.00080	.01	.00053	.00053	.012	.00002
%RSD	3.3869	.59401	.07532	106.04	.0363	16.552	7.9501	.08610	.21521

#1	.00334	1268.2	.17350	.00019	40.03	.00355	.00626	14.170	.00961
#2	.00350	1257.6	.17369	.00132	40.01	.00281	.00700	14.188	.00964

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.3472	.10153	-0.00022	.03010	.13242
Stddev	.0002	.00031	.00120	.00027	.00065
%RSD	.01637	.30368	553.77	.89647	.48882

#1	1.3471	.10175	-.00107	.03029	.13288
#2	1.3474	.10131	.00063	.02991	.13197

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3384.9	6109.2	81208.	8142.4
Stddev	6.2	8.3	109.	10.6
%RSD	.18299	.13562	.13483	.13065

#1	3389.3	6115.1	81131.	8149.9
#2	3380.5	6103.4	81285.	8134.9

Sample Name: 480-47975-E-1-A Acquired: 10/18/2013 17:53:14 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0114	.16780	.00356	.03242	.09953	-0.0006	114.38	.00012	.00010
Stddev	.00015	.02375	.00062	.00114	.00060	.00005	.05	.00004	.00000
%RSD	13.156	14.152	17.388	3.5133	.60646	72.811	.04673	34.816	4.4885

#1	-0.0125	.18459	.00400	.03322	.09910	-0.0003	114.35	.00009	.00010
#2	-0.0103	.15101	.00312	.03161	.09995	-0.0010	114.42	.00015	.00010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00060	.00046	.14251	1.8409	1.6072	.01396	27.876	.00244	.00232
Stddev	.00022	.00006	.00089	.0403	.0099	.00008	.075	.00001	.00081
%RSD	36.148	12.672	.62249	2.1864	.61751	.54210	.27034	.23482	34.736

#1	.00076	.00042	.14314	1.8694	1.6002	.01391	27.823	.00244	.00175
#2	.00045	.00051	.14189	1.8124	1.6142	.01401	27.929	.00243	.00289

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 {57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00029	10.913	.00064	-0.0173	F 36.72	-0.0017	-0.00082	7.0652	-0.00044
Stddev	.00001	.042	.00001	.00042	.09	.00096	.00036	.0156	.00060
%RSD	2.8576	.38579	1.7174	24.471	.2374	580.45	44.010	.22065	137.04

#1	.00029	10.883	.00065	-0.0143	36.66	-0.0084	-0.00108	7.0762	-0.00001
#2	.00030	10.943	.00064	-0.0203	36.78	.00051	-0.00057	7.0542	-0.00087

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.22853	.00295	.00053	.00023	.00274
Stddev	.00006	.00133	.00158	.00010	.00047
%RSD	.02485	45.015	300.02	44.734	17.109

#1	.22849	.00201	-0.0059	.00016	.00308
#2	.22857	.00389	.00164	.00030	.00241

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4335.2	6974.6	94776.	8127.9
Stddev	.0	3.2	162.	10.1
%RSD	.00063	.04574	.17043	.12487

#1	4335.2	6976.9	94890.	8120.7
#2	4335.2	6972.4	94662.	8135.1

Sample Name: 480-47975-E-2-A Acquired: 10/18/2013 17:55:35 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00083	.22632	.00245	.05873	.26155	-0.00009	50.615	.00002	.00002
Stddev	.00016	.03146	.00200	.00080	.00013	.00005	.514	.00000	.00000
%RSD	18.834	13.902	81.506	1.3671	.05051	57.862	1.0159	22.143	1.3714

#1	-0.00072	.20408	.00387	.05930	.26146	-0.00006	50.252	.00002	.00002
#2	-0.00094	.24857	.00104	.05816	.26164	-0.00013	50.979	.00002	.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	-0.00005	.24156	2.0941	2.2477	.01023	12.046	.23014	.20941
Stddev	.00007	.00023	.00138	.0058	.0348	.00041	.013	.00033	.00077
%RSD	10.102	470.63	.57032	.27570	1.5496	3.9892	.10910	.14489	.36972

#1	.00064	.00012	.24253	2.0900	2.2231	.00994	12.037	.22990	.20887
#2	.00074	-0.00021	.24059	2.0982	2.2724	.01052	12.055	.23037	.20996

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00155	9.6852	.00175	-0.00151	F 12.96	-0.00013	.00198	5.4811	-0.00046
Stddev	.00008	.0601	.00045	.00038	.02	.00030	.00142	.0517	.00042
%RSD	4.9820	.62018	25.901	25.060	.1219	239.40	71.442	.94343	90.914

#1	.00160	9.6427	.00143	-0.00124	12.97	-0.00034	.00299	5.4446	-0.00076
#2	.00149	9.7276	.00208	-0.00177	12.95	.00009	.00098	5.5177	-0.00017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.34750	.00290	.00139	.00024	.00229
Stddev	.00042	.00012	.00134	.00005	.00047
%RSD	.12088	4.1258	96.664	20.099	20.679

#1	.34720	.00282	.00044	.00020	.00195
#2	.34780	.00299	.00233	.00027	.00262

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4507.5	7161.4	97655.	8219.4
Stddev	1.4	3.8	252.	85.1
%RSD	.03047	.05339	.25766	1.0354

#1	4508.4	7158.7	97832.	8279.6
#2	4506.5	7164.1	97477.	8159.2

Sample Name: 480-47975-E-3-A Acquired: 10/18/2013 17:57:57 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0033	.21900	.00447	.02594	.04238	-0.0013	126.67	.00007	-0.0013
Stddev	.00042	.01824	.00184	.00040	.00008	.00005	.02	.00002	.00011
%RSD	124.92	8.3300	41.018	1.5538	.17830	40.685	.01953	26.745	84.043

#1	-0.00063	.20610	.00318	.02623	.04243	-0.0017	126.66	.00006	-0.0005
#2	-0.00004	.23190	.00577	.02566	.04233	-0.00009	126.69	.00009	-0.00021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00099	-0.0005	.56856	1.6065	1.9190	.01082	25.291	.27751	.25792
Stddev	.00047	.00024	.00861	.0450	.0084	.00106	.048	.00042	.00032
%RSD	47.413	519.66	1.5142	2.8007	.43700	9.8007	.19101	.15310	.12319

#1	.00065	.00012	.56247	1.5747	1.9131	.01007	25.325	.27781	.25815
#2	.00132	-0.00022	.57465	1.6383	1.9250	.01157	25.257	.27721	.25770

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00083	11.123	.00050	-0.00193	F 52.21	-0.00083	.00192	7.2788	-0.00031
Stddev	.00008	.074	.00035	.00044	.04	.00170	.00148	.0302	.00010
%RSD	9.2026	.66088	71.171	22.927	.0704	204.60	76.967	.41508	32.049

#1	.00089	11.175	.00075	-0.00162	52.19	.00037	.00088	7.3001	-0.00024
#2	.00078	11.071	.00025	-0.00225	52.24	-0.00203	.00297	7.2574	-0.00038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.17005	.00184	.00193	.00017	.00358
Stddev	.00043	.00011	.00100	.00015	.00007
%RSD	.25203	6.0240	52.069	88.879	2.0614

#1	.17035	.00176	.00122	.00027	.00363
#2	.16975	.00192	.00264	.00006	.00353

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4311.4	6951.3	94845.	8212.4
Stddev	5.0	3.4	287.	19.3
%RSD	.11677	.04904	.30278	.23540

#1	4307.9	6953.7	94642.	8226.1
#2	4315.0	6948.9	95048.	8198.7

Sample Name: 480-47941-D-1-A Acquired: 10/18/2013 18:00:18 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00034	.15246	.01466	6.5521	.62735	-0.00004	125.49	.00045	.02246
Stddev	.00072	.00832	.00065	.0073	.00115	.00004	.01	.00015	.00002
%RSD	213.31	5.4567	4.4029	.11097	.18287	84.994	.00943	32.381	.07727

#1	.00017	.14658	.01421	6.5573	.62816	-0.00002	125.50	.00055	.02247
#2	-.00085	.15834	.01512	6.5470	.62654	-0.00007	125.49	.00035	.02245

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05923	.00146	4.9557	394.49	^ *****	.11093	161.61	.23597	.25169
Stddev	.00005	.00000	.0124	.14	----	.00044	.42	.00030	.00192
%RSD	.08703	.23982	.24937	.03610	----	.39422	.26112	.12534	.76108

#1	.05927	.00147	4.9644	394.59	^ -----	.11124	161.91	.23618	.25304
#2	.05920	.00146	4.9469	394.39	^ -----	.11062	161.31	.23576	.25033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 {41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00593	1556.4	.11914	F -.00733	F 26.21	.00003	.00798	19.675	.00628
Stddev	.00039	.3	.00055	.00004	.06	.00014	.00356	.033	.00002
%RSD	6.6212	.01873	.45820	.50084	.2153	447.82	44.665	.16650	.34219

#1	.00621	1556.2	.11876	-.00730	26.25	-0.00007	.00546	19.652	.00629
#2	.00566	1556.6	.11953	-.00735	26.17	.00013	.01049	19.698	.00626

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-.00500	-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.4264	.02969	-.00397	.00633	.00633
Stddev	.0016	.00029	.00171	.00008	.00010
%RSD	.06462	.98432	42.955	1.2579	1.6501

#1	2.4253	.02990	-.00277	.00627	.00641
#2	2.4275	.02949	-.00518	.00639	.00626

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3387.7	6119.5	80545.	8080.0
Stddev	.7	2.9	74.	18.7
%RSD	.02102	.04791	.09126	.23127

#1	3387.2	6117.5	80493.	8093.2
#2	3388.2	6121.6	80597.	8066.8

Sample Name: 480-47416-C-6-D Acquired: 10/18/2013 18:02:51 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0083	7.4732	.00164	.02571	.04852	.00086	56.471	.00011	.00249
Stddev	.00014	.0404	.00091	.00055	.00005	.00002	.534	.00011	.00001
%RSD	16.761	.54005	55.722	2.1460	.09282	1.9395	.94484	96.835	.29567

#1	-0.0073	7.4447	.00229	.02610	.04855	.00085	56.094	.00019	.00249
#2	-0.0092	7.5018	.00099	.02532	.04848	.00087	56.848	.00003	.00250

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00834	.00854	9.5556	6.0001	6.5686	.02077	7.5101	.29835	.27505
Stddev	.00017	.00002	.0623	.0293	.0505	.00095	.0008	.00011	.00079
%RSD	2.0862	.25530	.65178	.48890	.76935	4.5501	.01074	.03695	.28755

#1	.00846	.00856	9.5116	5.9793	6.5328	.02144	7.5096	.29843	.27449
#2	.00822	.00853	9.5997	6.0208	6.6043	.02010	7.5107	.29827	.27561

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00062	41.315	.00564	-0.0101	6.753	-0.0120	.00193	20.300	.00038
Stddev	.00037	.293	.00025	.00002	.027	.00134	.00094	.226	.00018
%RSD	59.715	.70925	4.3735	1.7826	.3967	112.30	48.700	1.1155	46.277

#1	.00088	41.107	.00546	-0.0100	6.772	-0.0215	.00260	20.140	.00026
#2	.00036	41.522	.00581	-0.0103	6.735	-0.0025	.00127	20.460	.00051

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.21926	.63225	.00125	.01118	.02692
Stddev	.00060	.00157	.00016	.00006	.00059
%RSD	.27314	.24786	13.006	.55831	2.1951

#1	.21968	.63115	.00113	.01113	.02734
#2	.21883	.63336	.00136	.01122	.02650

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4396.6	7250.2	97962.	8230.7
Stddev	7.1	6.0	60.	66.1
%RSD	.16213	.08324	.06174	.80254

#1	4401.6	7254.4	97919.	8277.5
#2	4391.6	7245.9	98004.	8184.0

Sample Name: 480-47398-C-1-D Acquired: 10/18/2013 18:05:17 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	.07613	-.00020	.02157	.01751	-.00010	7.8415	-.00002	.00046
Stddev	.00029	.01050	.00058	.00052	.00008	.00000	.0182	.00000	.00009
%RSD	146.90	13.792	294.17	2.4261	.43501	3.0075	.23249	11.621	19.996

#1	-.00001	.08356	-.00061	.02194	.01756	-.00010	7.8544	-.00002	.00039
#2	.00041	.06871	.00021	.02120	.01745	-.00010	7.8286	-.00002	.00052

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00002	-.00027	1.1108	2.1624	2.2590	.00054	2.5682	.20020	.17890
Stddev	.00020	.00023	.0005	.0080	.0029	.00023	.0123	.00023	.00020
%RSD	992.27	86.046	.04489	.36861	.12641	43.391	.47976	.11528	.11227

#1	.00012	-.00010	1.1111	2.1681	2.2570	.00070	2.5595	.20004	.17905
#2	-.00016	-.00043	1.1104	2.1568	2.2611	.00037	2.5769	.20036	.17876

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00002	22.333	.00067	-.00136	3.498	-.00106	.00197	6.6456	-.00023
Stddev	.00003	.022	.00011	.00043	.016	.00140	.00192	.0289	.00013
%RSD	184.12	.09704	15.935	32.056	.4672	131.14	97.566	.43419	57.112

#1	-.00004	22.318	.00075	-.00105	3.509	-.00008	.00061	6.6252	-.00033
#2	.00001	22.348	.00060	-.00166	3.486	-.00205	.00332	6.6660	-.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05481	.00169	.00139	.00030	.00339
Stddev	.00008	.00001	.00222	.00019	.00021
%RSD	.14305	.43029	159.31	62.887	6.1189

#1	.05486	.00170	-.00018	.00044	.00354
#2	.05475	.00169	.00296	.00017	.00325

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4617.5	7267.9	98982.	8198.9
Stddev	.7	1.1	209.	5.1
%RSD	.01468	.01486	.21130	.06280

#1	4617.1	7268.6	98834.	8202.6
#2	4618.0	7267.1	99130.	8195.3

Sample Name: CCV Acquired: 10/18/2013 18:07:40 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48002	24.356	.49555	.48492	.49430	.49924	23.844	.49347	.48765	.47319	.47232	24.635
Stddev	.00103	.139	.00291	.00256	.00153	.00041	.000	.00197	.00051	.00215	.00021	.022
%RSD	.21507	.57094	.58755	.52752	.31019	.08125	.00188	.39954	.10359	.45434	.04468	.09118

#1	.48075	24.257	.49349	.48673	.49322	.49953	23.844	.49487	.48729	.47471	.47246	24.651
#2	.47929	24.454	.49761	.48311	.49538	.49895	23.843	.49208	.48801	.47167	.47217	24.619

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.841	26.673	.49177	23.786	.50019	.45931	.48675	24.104	.49732	.49797	26.19	.51934
Stddev	.108	.143	.00121	.063	.00132	.00085	.00166	.154	.00137	.00112	.06	.00040
%RSD	.43354	.53771	.24569	.26486	.26316	.18546	.34176	.63992	.27488	.22440	.2388	.07626

#1	24.764	26.572	.49092	23.831	.50112	.45991	.48793	23.995	.49636	.49718	26.23	.51906
#2	24.917	26.774	.49263	23.742	.49926	.45871	.48557	24.214	.49829	.49876	26.14	.51962

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49003	23.858	.47951	.50164	.47630	.50445	.45759	.46355
Stddev	.00013	.001	.00003	.00012	.00062	.00010	.00074	.00408
%RSD	.02583	.00336	.00669	.02328	.13072	.01931	.16184	.88057

#1	.48994	23.859	.47949	.50156	.47585	.50452	.45812	.46643
#2	.49012	23.858	.47953	.50172	.47674	.50438	.45707	.46066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4435.8	7312.2	99063.	8292.0
Stddev	11.1	5.9	251.	30.9
%RSD	.24974	.08062	.25292	.37271
#1	4443.7	7308.1	98886.	8270.1
#2	4428.0	7316.4	99241.	8313.8

Sample Name: CCB Acquired: 10/18/2013 18:10:00 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00045	.02950	.00104	.00343	-0.00002	-0.00007	-0.00535	-0.00011	.00001	.00000	-0.00082	-0.00833
Stddev	.00020	.01990	.00333	.00010	.00002	.00001	.00249	.00006	.00002	.00022	.00016	.00108
%RSD	43.502	67.467	320.29	2.8013	83.670	16.360	46.638	58.167	154.25	5687.3	19.272	13.017

#1	-0.00031	.04357	-0.00132	.00350	-0.00003	-0.00006	-0.00711	-0.00015	-0.00000	.00016	-0.00093	-0.00757
#2	-0.00059	.01543	.00339	.00337	-0.00001	-0.00008	-0.00359	-0.00006	.00003	-0.00015	-0.00071	-0.00910

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03517	.00366	-0.00053	.00285	-0.00007	-0.00081	.00020	.04073	-0.00060	-0.00049	F .0036	.00060
Stddev	.00460	.00022	.00051	.00207	.00001	.00038	.00005	.00053	.00018	.00057	.0014	.00049
%RSD	13.078	6.0069	95.874	72.628	12.757	46.913	27.734	1.2978	29.538	115.93	37.98	81.987

#1	.03192	.00351	-0.00017	.00432	-0.00007	-0.00054	.00016	.04036	-0.00048	-0.00090	.0046	.00095
#2	.03842	.00382	-0.00090	.00139	-0.00006	-0.00108	.00023	.04110	-0.00073	-0.00009	.0026	.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	.03142	.00010	.00005	.00001	.00013	-0.00004	.00898
Stddev	.00330	.01052	.00026	.00001	.00008	.00265	.00017	.00020
%RSD	3146.6	33.490	270.16	24.182	612.03	2023.2	411.78	2.2347

#1	-0.00223	.03886	.00028	.00004	-0.00004	-0.00174	-0.00016	.00884
#2	.00244	.02398	-0.00009	.00006	.00007	.00200	.00008	.00912

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4760.1	7375.1	100460.	8163.0
Stddev	4.9	5.0	534.	67.3
%RSD	.10329	.06809	.53126	.82408
#1	4756.6	7378.7	100840.	8210.6
#2	4763.5	7371.6	100080.	8115.4

Sample Name: CCVL Acquired: 10/18/2013 18:12:26 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00261	.23106	.01029	.02206	.00197	.00201	.48750	.00088	.00381	.00391	.00841	.04717
Stddev	.00039	.00471	.00039	.00057	.00001	.00003	.00137	.00006	.00000	.00034	.00010	.00247
%RSD	15.009	2.0368	3.7803	2.5836	.57821	1.7168	.28173	7.1582	.03232	8.7169	1.2138	5.2269

#1	.00288	.23439	.01002	.02165	.00198	.00198	.48847	.00083	.00381	.00367	.00848	.04543
#2	.00233	.22774	.01057	.02246	.00196	.00203	.48653	.00092	.00381	.00415	.00834	.04892

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48216	.43222	F .00210	.19828	.00305	.00288	.01011	.93557	.00984	.00567	F .0009	.02122
Stddev	.00726	.00539	.00118	.00066	.00010	.00026	.00012	.00773	.00036	.00077	.0022	.00238
%RSD	1.5059	1.2479	56.210	.33399	3.1874	9.0903	1.1671	.82596	3.6746	13.506	254.4	11.221

#1	.47703	.43604	.00294	.19781	.00298	.00307	.01003	.93011	.01010	.00513	.0024	.01954
#2	.48730	.42841	.00127	.19875	.00312	.00270	.01019	.94104	.00959	.00621	-.0007	.02291

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01674	.51044	.00886	.00528	.00468	.02039	.00467	.00961
Stddev	.00273	.01645	.00013	.00011	.00014	.00159	.00008	.00003
%RSD	16.289	3.2237	1.4127	2.0720	3.0897	7.7808	1.7760	.26955

#1	.01481	.52208	.00877	.00536	.00478	.01927	.00461	.00959
#2	.01866	.49880	.00895	.00520	.00457	.02151	.00473	.00963

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4766.2	7414.5	101790.	8244.4
Stddev	9.3	2.4	15.	45.1
%RSD	.19445	.03191	.01468	.54678

#1	4759.7	7416.2	101780.	8212.5
#2	4772.8	7412.8	101800.	8276.3

Sample Name: MB 480-145296/1-A Acquired: 10/18/2013 18:14:51 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	.02265	.00196	.00305	-0.0003	-0.0007	.00679	-0.0010	-0.0004
Stddev	.00002	.00345	.00148	.00042	.00001	.00004	.00133	.00012	.00002
%RSD	4.5802	15.235	75.267	13.663	31.307	53.688	19.583	111.72	43.363

#1	.00050	.02508	.00092	.00335	-0.0002	-0.0004	.00585	-0.0019	-0.0005
#2	.00047	.02021	.00301	.00276	-0.0004	-0.0009	.00773	-0.0002	-0.0003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0008	-0.0084	-0.00558	-0.01391	.00240	-0.00129	.00200	-0.0022	-0.0066
Stddev	.00006	.00024	.00306	.00068	.00033	.00022	.00354	.00002	.00013
%RSD	76.421	28.475	54.939	4.9086	13.690	17.396	177.05	10.395	19.257

#1	-0.00013	-0.00067	-0.00774	-0.01439	.00217	-0.00145	.00450	-0.0024	-0.00075
#2	-0.00004	-0.00101	-0.00341	-0.01343	.00263	-0.00113	-0.00050	-0.00021	-0.00057

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	.04429	-0.00015	-0.00098	.0017	-0.00092	.00291	.01570	.00008
Stddev	.00028	.00165	.00047	.00144	.0040	.00090	.00133	.00930	.00031
%RSD	238.32	3.7273	316.02	146.45	241.4	98.661	45.520	59.205	417.53

#1	-0.00008	.04546	-0.00048	.00003	-0.0012	-0.00155	.00385	.00913	-0.00015
#2	.00031	.04312	.00018	-0.00200	.0045	-0.00028	.00198	.02228	.00030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00007	.00001	.00082	-0.00013	.00131
Stddev	.00013	.00025	.00151	.00000	.00010
%RSD	195.21	1941.7	185.30	2.8149	7.5059

#1	-0.00002	.00019	-0.00025	-0.00013	.00124
#2	.00016	-0.00017	.00189	-0.00012	.00138

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4792.8	7443.2	102140.	8307.9
Stddev	7.3	10.4	8.	7.9
%RSD	.15249	.13972	.00795	.09541

#1	4798.0	7450.5	102150.	8302.3
#2	4787.7	7435.8	102140.	8313.5

Sample Name: LCS 480-145296/2-A Acquired: 10/18/2013 18:17:16 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99127	.05007	1.0165	.00317	1.0138	1.0410	.01553	1.0116	.99609
Stddev	.00220	.00013	.0005	.00015	.0060	.0012	.00206	.0011	.00206
%RSD	.22194	.25645	.04634	4.6076	.58825	.11756	13.269	.10853	.20724

#1	.98971	.04998	1.0162	.00307	1.0096	1.0419	.01407	1.0124	.99755
#2	.99282	.05016	1.0168	.00328	1.0180	1.0402	.01699	1.0108	.99463

Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99886	1.0006	.09480	-.02190	.00639	-.00012	-.01694	1.0438	.91748
Stddev	.00388	.0037	.00310	.07817	.00024	.00031	.00316	.0009	.00057
%RSD	.38814	.36508	3.2711	356.97	3.7848	264.85	18.658	.08562	.06185

#1	.99611	.99798	.09699	.03338	.00622	.00010	-.01471	1.0444	.91788
#2	1.0016	1.0031	.09261	-.07717	.00656	-.00034	-.01918	1.0432	.91708

Check ?	Chk Pass	Chk Pass	None	None	None	None	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 {57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0204	.03090	1.0176	1.0296	F .0970	1.0367	1.0051	-.01303	-.00000
Stddev	.0007	.00833	.0002	.0021	.0004	.0008	.0049	.02706	.00010
%RSD	.06886	26.939	.01991	.20743	.3853	.07218	.48822	207.67	2211.9

#1	1.0209	.03679	1.0175	1.0281	.0968	1.0373	1.0086	-.03217	-.00007
#2	1.0199	.02502	1.0177	1.0311	.0973	1.0362	1.0017	.00610	.00006

Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	None
High Limit					1.200				
Low Limit					.8000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0303	.00115	1.0467	.98147	.95987
Stddev	.0011	.00017	.0003	.00477	.00219
%RSD	.10704	14.831	.02792	.48641	.22844

#1	1.0296	.00103	1.0469	.97810	.95832
#2	1.0311	.00127	1.0465	.98485	.96142

Check ?	None	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4771.8	7412.2	101270.	8242.2
Stddev	.7	6.5	36.	15.8
%RSD	.01522	.08766	.03544	.19228

#1	4771.3	7416.8	101250.	8253.4
#2	4772.3	7407.6	101300.	8231.0

Sample Name: 480-47620-A-1-B Acquired: 10/18/2013 18:19:36 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00045	.05800	.00515	.26294	.00965	-0.00009	48.909	-0.00000	.00047
Stddev	.00034	.00279	.00063	.00003	.00002	.00005	.313	.00004	.00015
%RSD	76.303	4.8059	12.284	.01116	.18728	57.900	.63950	1298.6	31.892

#1	-0.00069	.05997	.00560	.26296	.00966	-0.00013	48.688	-0.00003	.00036
#2	-0.00021	.05603	.00470	.26292	.00963	-0.00006	49.131	.00003	.00057

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00101	.00529	.17232	3.9405	5.4557	.02559	6.8175	.11723	.10777
Stddev	.00004	.00013	.00199	.0343	.0257	.00004	.0215	.00042	.00076
%RSD	3.8971	2.4001	1.1573	.86917	.47083	.16678	.31530	.35428	.70421

#1	.00099	.00538	.17091	3.9163	5.4375	.02562	6.8327	.11752	.10723
#2	.00104	.00520	.17373	3.9647	5.4738	.02556	6.8023	.11693	.10830

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01183	82.905	.01631	.00008	5.688	.00310	.00200	6.1677	-0.00035
Stddev	.00002	.188	.00018	.00095	.019	.00102	.00168	.0229	.00050
%RSD	.19821	.22655	1.1291	1191.1	.3345	33.035	84.229	.37064	144.83

#1	.01181	82.773	.01644	-0.00059	5.702	.00237	.00318	6.1515	.00001
#2	.01185	83.038	.01618	.00075	5.675	.00382	.00081	6.1839	-0.00070

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20188	.00096	.00222	.00157	.03954
Stddev	.00031	.00006	.00314	.00008	.00027
%RSD	.15306	6.4504	141.31	5.0246	.68526

#1	.20210	.00100	.00444	.00163	.03973
#2	.20167	.00092	.00000	.00152	.03935

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4340.0	7023.0	95441.	8231.4
Stddev	2.0	2.1	205.	37.1
%RSD	.04561	.03021	.21439	.45059

#1	4338.6	7021.5	95297.	8257.6
#2	4341.4	7024.5	95586.	8205.2

Sample Name: 480-47620-A-1-B SD@5 Acquired: 10/18/2013 18:21:56 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0022	.05249	.00300	.05354	.00201	-0.0003	9.9995	-0.0010	-0.0001
Stddev	.00027	.01708	.00048	.00011	.00003	.00004	.0099	.00007	.00010
%RSD	122.88	32.531	16.098	.20521	1.3842	128.99	.09945	68.742	1504.5

#1	-0.0003	.04042	.00266	.05362	.00199	-0.0007	9.9924	-0.0015	.00006
#2	-0.0041	.06456	.00334	.05346	.00203	-0.0000	10.007	-0.0005	-0.0007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	.00032	.03167	.71366	.81402	.00378	1.3883	.02380	.02129
Stddev	.00022	.00001	.00195	.01089	.00733	.00061	.0098	.00005	.00088
%RSD	89.847	2.5344	6.1558	1.5256	.90061	16.156	.70757	.19192	4.1116

#1	.00009	.00032	.03029	.70596	.80884	.00335	1.3813	.02377	.02067
#2	.00041	.00033	.03305	.72135	.81920	.00422	1.3952	.02383	.02191

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00255	15.209	.00322	-0.00079	1.117	.00054	.00052	1.2445	-0.00031
Stddev	.00007	.054	.00034	.00046	.004	.00003	.00190	.0202	.00049
%RSD	2.9172	.35811	10.550	57.870	.3143	5.5236	364.81	1.6199	160.16

#1	.00249	15.248	.00298	-0.0111	1.120	.00052	-0.00082	1.2587	.00004
#2	.00260	15.171	.00346	-0.0047	1.115	.00056	.00186	1.2302	-0.00066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04061	.00019	.00152	.00041	.00799
Stddev	.00028	.00004	.00007	.00008	.00030
%RSD	.68815	21.300	4.5536	20.171	3.7891

#1	.04081	.00022	.00147	.00036	.00820
#2	.04041	.00017	.00157	.00047	.00777

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4638.1	7275.8	99348.	8257.0
Stddev	3.7	3.0	368.	13.5
%RSD	.07965	.04123	.37014	.16331

#1	4635.5	7273.6	99608.	8266.5
#2	4640.7	7277.9	99088.	8247.4

Sample Name: 480-47620-A-1-B PDS Acquired: 10/18/2013 18:24:19 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96452	.09469	1.0370	.26244	1.0153	1.0436	48.456	1.0187	1.0019
Stddev	.00196	.00621	.0010	.00067	.0022	.0032	.084	.0022	.0002
%RSD	.20336	6.5600	.10158	.25592	.21545	.30688	.17271	.21167	.01895

#1	.96591	.09030	1.0362	.26292	1.0137	1.0413	48.397	1.0203	1.0020
#2	.96314	.09908	1.0377	.26197	1.0168	1.0458	48.515	1.0172	1.0018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.94663	.98775	.17150	3.9860	5.3488	.02571	6.7193	1.1110	1.0487
Stddev	.00051	.00533	.00284	.0288	.0257	.00075	.0250	.0012	.0002
%RSD	.05428	.53919	1.6553	.72157	.48023	2.9344	.37147	.11034	.02106

#1	.94699	.99152	.16949	4.0064	5.3307	.02624	6.7016	1.1119	1.0486
#2	.94626	.98398	.17351	3.9657	5.3670	.02517	6.7369	1.1101	1.0489

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0258	83.471	1.0179	1.0163	5.772	1.0572	1.0410	6.1651	-.00019
Stddev	.0003	.667	.0013	.0004	.010	.0021	.0013	.0160	.00024
%RSD	.02687	.79898	.12968	.03691	.1724	.19796	.12484	.25893	127.42

#1	1.0256	82.999	1.0169	1.0166	5.779	1.0587	1.0420	6.1538	-.00036
#2	1.0260	83.942	1.0188	1.0160	5.765	1.0558	1.0401	6.1764	-.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20242	.00221	1.0224	.96572	.95480
Stddev	.00084	.00016	.0006	.00132	.00318
%RSD	.41459	7.1659	.05344	.13682	.33268

#1	.20302	.00210	1.0220	.96665	.95255
#2	.20183	.00232	1.0228	.96478	.95704

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4322.3	7036.8	96891.	8330.6
Stddev	1.0	6.3	60.	31.3
%RSD	.02384	.08983	.06202	.37562

#1	4321.6	7032.4	96933.	8352.8
#2	4323.1	7041.3	96848.	8308.5

Sample Name: 480-47620-A-1-C MS Acquired: 10/18/2013 18:26:38 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0205	.07967	1.0790	.27160	1.0617	1.0716	51.615	1.0481	1.0364
Stddev	.0037	.00607	.0011	.00057	.0022	.0007	.178	.0011	.0003
%RSD	.36730	7.6234	.10207	.21014	.21144	.06758	.34424	.10500	.03075

#1	1.0231	.08396	1.0798	.27200	1.0601	1.0711	51.490	1.0488	1.0361
#2	1.0178	.07537	1.0783	.27119	1.0633	1.0721	51.741	1.0473	1.0366

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99819	1.0365	.17369	4.2357	5.6606	.02852	7.0322	1.1511	1.0748
Stddev	.00891	.0047	.00153	.0086	.0355	.00012	.0227	.0037	.0054
%RSD	.89297	.45279	.87903	.20227	.62684	.43250	.32232	.32293	.49855

#1	1.0045	1.0398	.17261	4.2418	5.6857	.02861	7.0482	1.1537	1.0786
#2	.99189	1.0332	.17477	4.2297	5.6355	.02843	7.0162	1.1484	1.0710

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 {41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0576	86.836	1.0634	1.0555	6.001	1.0934	1.0608	6.5133	.00021
Stddev	.0009	.029	.0007	.0015	.012	.0046	.0022	.0156	.00055
%RSD	.08755	.03294	.06211	.14592	.1914	.42035	.20910	.23870	265.64

#1	1.0583	86.816	1.0629	1.0544	5.993	1.0966	1.0593	6.5023	-.00018
#2	1.0570	86.856	1.0639	1.0566	6.010	1.0901	1.0624	6.5243	.00060

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2554	.00242	1.0604	1.0134	1.0077
Stddev	.0007	.00016	.0007	.0074	.0066
%RSD	.05599	6.4265	.06360	.73138	.66038

#1	1.2549	.00231	1.0608	1.0187	1.0124
#2	1.2559	.00253	1.0599	1.0082	1.0030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4304.5	7025.3	95719.	8155.0
Stddev	2.4	5.4	455.	19.4
%RSD	.05591	.07704	.47497	.23768

#1	4306.2	7029.1	95398.	8168.8
#2	4302.8	7021.5	96041.	8141.3

Sample Name: 480-47620-A-1-D MSD Acquired: 10/18/2013 18:28:59 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0030	.08777	1.0560	.26631	1.0391	1.0512	50.049	1.0290	1.0149
Stddev	.0055	.01896	.0054	.00054	.0008	.0005	.171	.0035	.0004
%RSD	.54502	21.602	.51184	.20317	.07735	.04795	.34101	.33906	.03414

#1	.99918	.07437	1.0598	.26593	1.0386	1.0516	49.928	1.0315	1.0151
#2	1.0069	.10118	1.0522	.26669	1.0397	1.0509	50.169	1.0265	1.0147

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.98252	1.0199	.17745	4.1109	5.5929	.02718	6.8884	1.1323	1.0611
Stddev	.00370	.0050	.00021	.0085	.0449	.00041	.0346	.0025	.0001
%RSD	.37699	.48612	.11750	.20747	.80277	1.5018	.50231	.22278	.00901

#1	.97990	1.0164	.17730	4.1048	5.5611	.02689	6.8639	1.1305	1.0611
#2	.98514	1.0234	.17760	4.1169	5.6246	.02747	6.9129	1.1341	1.0612

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 {41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0374	84.724	1.0395	1.0306	5.835	1.0687	1.0482	6.3397	-.00000
Stddev	.0036	.105	.0012	.0000	.025	.0006	.0024	.0344	.00004
%RSD	.34661	.12428	.11595	.00094	.4206	.05961	.23029	.54312	2014.3

#1	1.0399	84.650	1.0404	1.0306	5.852	1.0682	1.0499	6.3153	-.00003
#2	1.0348	84.799	1.0387	1.0305	5.818	1.0691	1.0465	6.3640	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2300	.00233	1.0411	.99544	.98837
Stddev	.0045	.00025	.0008	.00496	.00826
%RSD	.36532	10.542	.07770	.49818	.83557

#1	1.2332	.00251	1.0405	.99193	.98253
#2	1.2269	.00216	1.0416	.99894	.99421

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4326.2	7040.9	95579.	8229.8
Stddev	.6	5.6	278.	38.0
%RSD	.01388	.08006	.29107	.46217

#1	4325.8	7036.9	95776.	8256.7
#2	4326.7	7044.9	95383.	8202.9

Sample Name: MB 480-144804/1-E Acquired: 10/18/2013 18:31:16 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00031	.05865	.00108	.00506	.00072	-0.00009	.04542	-0.00004	-0.00007
Stddev	.00087	.02868	.00110	.00015	.00000	.00006	.00057	.00004	.00006
%RSD	275.18	48.893	101.68	2.8970	.68118	68.096	1.2637	85.788	87.980

#1	-0.00093	.07893	.00030	.00517	.00071	-0.00005	.04501	-0.00002	-0.00011
#2	.00030	.03837	.00185	.00496	.00072	-0.00014	.04583	-0.00007	-0.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00127	-0.00062	-0.00599	-0.07172	.00341	-0.00008	.00277	-0.00001	-0.00002
Stddev	.00018	.00002	.00118	.05900	.00006	.00077	.00204	.00002	.00101
%RSD	14.525	2.5091	19.720	82.265	1.6878	965.38	73.892	159.48	4414.1

#1	.00140	-0.00061	-0.00682	-0.03000	.00337	-0.00062	.00421	.00000	-0.00074
#2	.00114	-0.00063	-0.00515	-1.1344	.00345	.00046	.00132	-0.00002	.00069

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00050	.07549	.00012	-0.00043	.0412	.00216	.00369	.00419	.00021
Stddev	.00007	.00265	.00010	.00112	.0026	.00112	.00352	.00625	.00042
%RSD	14.954	3.5057	81.023	260.30	6.327	51.711	95.369	149.42	203.61

#1	.00045	.07362	.00019	-0.0122	.0394	.00137	.00120	-0.00024	.00051
#2	.00055	.07736	.00005	.00036	.0431	.00295	.00617	.00861	-0.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00031	.00002	-0.00046	.00005	.00256
Stddev	.00014	.00009	.00177	.00014	.00033
%RSD	44.569	472.72	383.57	265.51	12.908

#1	.00041	-0.00004	-0.00171	.00015	.00279
#2	.00021	.00008	.00079	-0.00004	.00233

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4767.3	7362.2	101270.	8148.7
Stddev	1.3	4.7	374.	38.2
%RSD	.02829	.06415	.36923	.46914

#1	4768.2	7365.5	101000.	8175.7
#2	4766.3	7358.9	101530.	8121.7

Sample Name: LCS 480-144804/2-E Acquired: 10/18/2013 18:33:40 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04836	10.165	.20458	.20367	.20111	.20571	9.7371	.20101	.19811
Stddev	.00022	.059	.00025	.00085	.00024	.00008	.0448	.00023	.00021
%RSD	.45914	.57622	.12264	.41807	.12092	.03988	.45994	.11597	.10720

#1	.04851	10.207	.20476	.20307	.20094	.20565	9.7688	.20117	.19826
#2	.04820	10.124	.20441	.20428	.20128	.20577	9.7055	.20084	.19796

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19776	.19594	10.222	9.6697	10.418	.19898	10.015	.20337	.18177
Stddev	.00020	.00010	.019	.0820	.132	.00089	.007	.00017	.00031
%RSD	.10069	.05010	.19055	.84812	1.2637	.44549	.07392	.08173	.16965

#1	.19762	.19587	10.236	9.7277	10.511	.19961	10.020	.20349	.18155
#2	.19790	.19601	10.208	9.6117	10.325	.19835	10.010	.20326	.18199

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20340	9.7581	.19920	.19732	10.39	.20914	.20324	9.7722	.18741
Stddev	.00059	.0272	.00060	.00066	.04	.00187	.00000	.0469	.00027
%RSD	.28813	.27860	.29987	.33696	.4235	.89264	.00083	.47970	.14411

#1	.20299	9.7774	.19962	.19779	10.36	.21046	.20324	9.8053	.18760
#2	.20382	9.7389	.19877	.19685	10.43	.20782	.20324	9.7390	.18722

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20419	.18842	.20336	.19303	.18798
Stddev	.00011	.00091	.00004	.00100	.00143
%RSD	.05153	.48063	.02191	.51737	.76090

#1	.20427	.18778	.20340	.19233	.18697
#2	.20412	.18906	.20333	.19374	.18899

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4565.4	7280.4	99140.	8202.2
Stddev	1.2	2.5	100.	30.4
%RSD	.02633	.03379	.10133	.37089

#1	4566.3	7282.1	99211.	8180.7
#2	4564.6	7278.7	99069.	8223.7

Sample Name: CCV Acquired: 10/18/2013 18:36:00 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48674	24.667	.49800	.48124	.49852	.49860	24.172	.49344	.48960	.48319	.47995	24.592
Stddev	.00010	.180	.00007	.00028	.00153	.00103	.080	.00128	.00034	.00034	.00215	.041
%RSD	.02020	.73068	.01411	.05815	.30757	.20660	.33009	.25891	.07010	.07015	.44850	.16574

#1	.48681	24.540	.49805	.48104	.49743	.49787	24.115	.49435	.48984	.48343	.47842	24.563
#2	.48667	24.794	.49795	.48143	.49960	.49932	24.228	.49254	.48935	.48295	.48147	24.620

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.072	27.321	.49645	24.080	.50479	.46298	.48598	24.351	.49789	.50020	26.14	.51966
Stddev	.027	.232	.00242	.069	.00045	.00097	.00002	.109	.00107	.00275	.12	.00057
%RSD	.10781	.85031	.48727	.28691	.08972	.20957	.00420	.44855	.21553	.55063	.4762	.10960

#1	25.053	27.156	.49474	24.129	.50511	.46366	.48600	24.274	.49865	.49825	26.05	.52006
#2	25.091	27.485	.49816	24.031	.50447	.46229	.48597	24.429	.49713	.50215	26.23	.51925

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48556	24.019	.48143	.49954	.48285	.50629	.46940	.47574
Stddev	.00911	.098	.00332	.00016	.00150	.00180	.00090	.00183
%RSD	1.8759	.40824	.69044	.03169	.31116	.35540	.19103	.38537

#1	.47912	23.949	.48378	.49965	.48392	.50502	.47003	.47703
#2	.49200	24.088	.47908	.49943	.48179	.50757	.46876	.47444

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4434.3	7319.8	97871.	8245.8
Stddev	1.7	6.9	79.	36.3
%RSD	.03821	.09408	.08065	.44045
#1	4435.5	7324.7	97815.	8271.5
#2	4433.1	7314.9	97927.	8220.2

Sample Name: CCB Acquired: 10/18/2013 18:38:22 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	.03166	.00322	.00112	-.00004	-.00010	-.00671	-.00011	-.00004	.00019	-.00095	-.00612
Stddev	.00031	.00934	.00093	.00014	.00001	.00008	.00092	.00004	.00008	.00015	.00003	.00176
%RSD	124.41	29.515	28.921	12.843	29.696	81.487	13.719	37.889	193.14	82.302	2.9695	28.732

#1	.00003	.03827	.00257	.00102	-.00005	-.00004	-.00606	-.00014	.00002	.00029	-.00097	-.00487
#2	.00047	.02505	.00388	.00122	-.00003	-.00015	-.00736	-.00008	-.00010	.00008	-.00093	-.00736

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.05231	.00063	-.00027	.00162	-.00007	-.00013	.00025	.00896	-.00021	.00015	F .0085	.00155
Stddev	.03525	.00022	.00008	.00166	.00004	.00011	.00002	.01368	.00019	.00058	.0012	.00111
%RSD	67.381	34.815	29.196	102.67	52.670	87.114	9.6927	152.73	89.892	383.96	13.80	71.904

#1	-.07723	.00079	-.00032	.00280	-.00004	-.00021	.00023	-.00072	-.00034	-.00026	.0094	.00076
#2	-.02739	.00048	-.00021	.00044	-.00010	-.00005	.00026	.01863	-.00008	.00056	.0077	.00233

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00175	.00281	.00020	-.00008	.00008	-.00105	.00007	.00886
Stddev	.00301	.00916	.00025	.00004	.00000	.00004	.00023	.00056
%RSD	172.35	326.35	123.83	51.477	5.9027	3.8187	352.28	6.2682

#1	-.00038	-.00367	.00003	-.00005	.00008	-.00108	.00023	.00925
#2	.00387	.00928	.00038	-.00011	.00008	-.00102	-.00010	.00847

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4756.6	7368.4	100770.	8138.0
Stddev	3.2	3.1	150.	39.8
%RSD	.06687	.04185	.14903	.48906
#1	4754.3	7366.3	100870.	8109.9
#2	4758.8	7370.6	100660.	8166.1

Sample Name: CCVL Acquired: 10/18/2013 18:40:49 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00246	.23758	.01149	.02059	.00200	.00201	.49443	.00086	.00381	.00367	.00899	.04426
Stddev	.00005	.00594	.00038	.00036	.00001	.00006	.00314	.00003	.00010	.00002	.00006	.00046
%RSD	2.0933	2.4983	3.2743	1.7690	.70597	3.1246	.63535	3.7084	2.6903	.53378	.71557	1.0421

#1	.00243	.23338	.01176	.02033	.00201	.00205	.49220	.00088	.00373	.00366	.00895	.04459
#2	.00250	.24178	.01123	.02085	.00199	.00196	.49665	.00084	.00388	.00369	.00904	.04393

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.43134	.44490	F .00201	.20069	F .00557	F .00470	.01034	.93408	.00972	.00512	F .0072	.01984
Stddev	.00977	.00360	.00050	.00183	.00004	.00049	.00001	.00053	.00016	.00068	.0027	.00156
%RSD	2.2657	.80854	24.612	.91183	.79858	10.358	.08263	.05691	1.6556	13.342	37.91	7.8676

#1	.42443	.44744	.00236	.19939	.00554	.00504	.01034	.93370	.00960	.00464	.0092	.02094
#2	.43825	.44235	.00166	.20198	.00560	.00435	.01035	.93445	.00983	.00560	.0053	.01873

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000		.00300	.00300					.2000	
Range			-50.000%		50.000%	50.000%					-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01539	.48904	.00883	.00512	.00462	.02149	.00475	.00965
Stddev	.00031	.01165	.00055	.00018	.00036	.00191	.00004	.00021
%RSD	2.0002	2.3829	6.2217	3.5716	7.7276	8.9006	.92324	2.1573

#1	.01560	.49728	.00844	.00525	.00487	.02014	.00472	.00979
#2	.01517	.48080	.00922	.00499	.00437	.02284	.00478	.00950

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4759.5	7398.5	101120.	8189.0
Stddev	3.6	5.1	95.	17.1
%RSD	.07647	.06955	.09391	.20847
#1	4762.0	7394.8	101180.	8176.9
#2	4756.9	7402.1	101050.	8201.0

Sample Name: 480-47660-F-1-E Acquired: 10/18/2013 18:43:12 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00037	.06043	.00093	.00444	.00009	-0.00012	.06316	-0.00004	-0.00014
Stddev	.00048	.02133	.00007	.00001	.00001	.00003	.00106	.00001	.00005
%RSD	130.37	35.290	7.2574	.21971	9.6695	23.567	1.6809	18.107	31.496

#1	-0.00071	.04535	.00097	.00445	.00009	-0.00010	.06241	-0.00004	-0.00018
#2	-0.00003	.07551	.00088	.00443	.00010	-0.00014	.06391	-0.00003	-0.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00153	-0.00024	.00389	-0.02753	.00804	-0.00095	.00336	.00054	.00038
Stddev	.00024	.00015	.00253	.00507	.00026	.00138	.00308	.00007	.00016
%RSD	15.568	61.141	65.014	18.429	3.2118	144.55	91.843	12.256	43.066

#1	.00136	-0.00014	.00210	-0.02395	.00823	-0.00193	.00553	.00058	.00050
#2	.00170	-0.00035	.00568	-0.03112	.00786	.00002	.00118	.00049	.00027

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	.08252	.00007	.00028	.0262	.00096	.00263	-0.00505	-0.00030
Stddev	.00006	.00919	.00004	.00016	.0015	.00013	.00140	.00462	.00003
%RSD	23.197	11.142	60.726	57.912	5.663	13.392	53.165	91.475	11.632

#1	.00029	.08903	.00004	.00040	.0273	.00105	.00164	-0.00831	-0.00032
#2	.00021	.07602	.00010	.00017	.0252	.00087	.00361	-0.00178	-0.00027

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00047	.00002	.00039	-0.00012	.00355
Stddev	.00009	.00022	.00035	.00005	.00020
%RSD	18.791	907.48	90.761	37.116	5.6165

#1	.00053	.00018	.00064	-0.00016	.00341
#2	.00041	-0.00013	.00014	-0.00009	.00369

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4769.9	7362.8	101530.	8213.4
Stddev	9.1	8.1	196.	51.4
%RSD	.19173	.11029	.19289	.62609

#1	4776.3	7368.5	101390.	8177.0
#2	4763.4	7357.1	101670.	8249.7

Sample Name: 480-47660-F-1-E SD@5 Acquired: 10/18/2013 18:45:38 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00022	.04459	.00308	.00122	.00003	-0.00006	.01680	-0.00005	.00001
Stddev	.00010	.01943	.00027	.00023	.00000	.00001	.00382	.00002	.00004
%RSD	45.982	43.581	8.7152	18.501	2.6458	23.236	22.707	42.336	473.15

#1	-0.00015	.05833	.00289	.00138	.00003	-0.00005	.01950	-0.00003	.00003
#2	-0.00029	.03085	.00327	.00106	.00003	-0.00007	.01410	-0.00006	-0.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00027	-0.00081	-0.00662	-0.09388	.00184	.00074	.00069	.00003	-0.00014
Stddev	.00048	.00030	.00205	.05959	.00024	.00004	.00044	.00000	.00015
%RSD	179.38	37.081	30.955	63.475	13.127	5.1597	64.281	10.258	112.71

#1	.00061	-0.00059	-0.00807	-1.3602	.00201	.00071	.00038	.00003	-0.00003
#2	-0.00007	-0.00102	-0.00517	-0.05174	.00167	.00077	.00101	.00002	-0.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00014	.02895	-0.00050	.00012	.0048	-0.00117	.00241	.01043	-0.00049
Stddev	.00020	.01150	.00005	.00078	.0010	.00034	.00131	.01150	.00014
%RSD	140.10	39.714	10.187	658.69	20.00	28.662	54.241	110.25	29.354

#1	-0.00000	.02082	-0.00046	.00067	.0041	-0.00093	.00148	.00230	-0.00060
#2	-0.00028	.03708	-0.00053	-0.00044	.0055	-0.00141	.00333	.01857	-0.00039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00011	-0.00002	.00065	-0.00016	.00081
Stddev	.00008	.00024	.00214	.00002	.00010
%RSD	70.569	1343.7	328.62	10.331	12.904

#1	.00016	-0.00019	-0.00086	-0.00015	.00088
#2	.00005	.00015	.00217	-0.00017	.00073

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4762.9	7389.7	101170.	8120.7
Stddev	11.3	7.7	728.	16.5
%RSD	.23731	.10380	.71981	.20377

#1	4770.9	7395.2	100650.	8132.4
#2	4754.9	7384.3	101680.	8109.0

Sample Name: 480-47660-F-1-E PDS Acquired: 10/18/2013 18:48:03 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04953	10.211	.18695	.20478	.20322	.19030	9.0138	.18707	.18352
Stddev	.00029	.057	.00031	.00067	.00024	.00019	.0259	.00024	.00027
%RSD	.58940	.55834	.16410	.32489	.11620	.09727	.28704	.12772	.14722

#1	.04932	10.170	.18674	.20431	.20339	.19017	8.9955	.18724	.18371
#2	.04974	10.251	.18717	.20525	.20305	.19043	9.0321	.18690	.18333

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.18161	.18070	9.4402	9.6854	10.439	.20203	9.2521	.18764	.16838
Stddev	.00029	.00069	.0262	.0347	.172	.00142	.0381	.00062	.00112
%RSD	.15987	.38342	.27775	.35793	1.6440	.70211	.41177	.33249	.66514

#1	.18182	.18119	9.4217	9.6609	10.561	.20102	9.2790	.18808	.16917
#2	.18141	.18021	9.4588	9.7099	10.318	.20303	9.2251	.18720	.16759

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 {57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.18887	9.7391	.18342	.18430	.0215	.19177	.19005	9.8541	.19370
Stddev	.00045	.0442	.00076	.00156	.0006	.00011	.00147	.0488	.00024
%RSD	.24036	.45344	.41415	.84657	2.998	.05748	.77294	.49488	.12353

#1	.18919	9.7079	.18288	.18319	.0211	.19185	.19109	9.8196	.19387
#2	.18855	9.7703	.18395	.18540	.0220	.19169	.18901	9.8885	.19353

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20383	.17359	.18798	.17819	.17536
Stddev	.00041	.00049	.00296	.00100	.00105
%RSD	.20117	.28279	1.5763	.56058	.59896

#1	.20354	.17324	.19008	.17890	.17611
#2	.20412	.17394	.18589	.17749	.17462

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4562.7	7266.9	99731.	8221.4
Stddev	1.6	1.3	389.	14.2
%RSD	.03544	.01737	.39051	.17273

#1	4563.9	7266.0	99456.	8211.3
#2	4561.6	7267.8	100010.	8231.4

Sample Name: 480-47660-F-1-F MS Acquired: 10/18/2013 18:50:23 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04813	10.283	.20510	.20662	.20412	.20894	9.9331	.20376	.20090
Stddev	.00069	.057	.00059	.00028	.00013	.00093	.0551	.00014	.00004
%RSD	1.4369	.55317	.28943	.13482	.06299	.44410	.55476	.06919	.01874

#1	.04764	10.243	.20468	.20642	.20402	.20828	9.8941	.20386	.20092
#2	.04862	10.323	.20552	.20681	.20421	.20960	9.9721	.20367	.20087

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20054	.20023	10.365	9.9324	10.617	.20204	10.115	.20599	.18541
Stddev	.00048	.00038	.026	.0803	.181	.00225	.018	.00024	.00011
%RSD	.24123	.18802	.25199	.80868	1.7078	1.1138	.17640	.11418	.06009

#1	.20020	.19997	10.347	9.8756	10.745	.20045	10.103	.20582	.18549
#2	.20088	.20050	10.384	9.9892	10.489	.20363	10.128	.20615	.18533

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20651	9.9617	.20084	.19923	F 10.47	.20925	.20450	9.9295	.19140
Stddev	.00101	.0982	.00051	.00200	.01	.00234	.00071	.0491	.00121
%RSD	.48994	.98538	.25195	1.0057	.0601	1.1173	.34781	.49425	.63434

#1	.20579	9.8923	.20120	.20065	10.47	.21090	.20400	9.8948	.19226
#2	.20722	10.031	.20049	.19782	10.46	.20759	.20501	9.9642	.19054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20819	.19087	.20589	.19630	.19067
Stddev	.00137	.00080	.00163	.00021	.00089
%RSD	.66019	.41971	.79110	.10496	.46552

#1	.20722	.19144	.20704	.19616	.19005
#2	.20916	.19030	.20474	.19645	.19130

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4555.8	7256.9	99134.	8161.5
Stddev	.3	.4	95.	12.9
%RSD	.00705	.00590	.09544	.15811

#1	4556.0	7257.2	99201.	8170.6
#2	4555.6	7256.6	99067.	8152.4

Sample Name: 480-47660-F-1-G MSD Acquired: 10/18/2013 18:52:44 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04718	10.113	.20329	.20189	.19835	.20412	9.6511	.20033	.19677
Stddev	.00047	.027	.00306	.00049	.00123	.00060	.0107	.00004	.00010
%RSD	1.0061	.27138	1.5049	.24438	.62198	.29332	.11130	.01831	.05255

#1	.04685	10.093	.20545	.20224	.19748	.20454	9.6435	.20030	.19684
#2	.04752	10.132	.20113	.20154	.19922	.20369	9.6587	.20035	.19669

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19395	.19364	10.115	9.5983	10.335	.19779	9.8858	.20178	.18024
Stddev	.00181	.00195	.001	.0378	.005	.00044	.0085	.00000	.00204
%RSD	.93166	1.0076	.01357	.39341	.04553	.22001	.08602	.00156	1.1330

#1	.19268	.19226	10.116	9.5716	10.338	.19810	9.8918	.20178	.17880
#2	.19523	.19502	10.114	9.6250	10.331	.19748	9.8798	.20178	.18168

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20365	9.7051	.19688	.19788	F 10.27	.20461	.20062	9.6810	.18703
Stddev	.00011	.0157	.00023	.00041	.04	.00170	.00037	.0276	.00095
%RSD	.05360	.16182	.11792	.20724	.4126	.82929	.18479	.28535	.50589

#1	.20373	9.6940	.19672	.19817	10.24	.20341	.20088	9.7005	.18770
#2	.20358	9.7162	.19705	.19759	10.30	.20581	.20036	9.6615	.18636

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20330	.18727	.20350	.18989	.18807
Stddev	.00020	.00104	.00154	.00222	.00170
%RSD	.09744	.55665	.75474	1.1667	.90351

#1	.20344	.18653	.20242	.18833	.18687
#2	.20316	.18801	.20459	.19146	.18927

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4565.2	7264.9	99804.	8236.0
Stddev	1.9	12.4	488.	28.8
%RSD	.04198	.17116	.48862	.34935

#1	4563.9	7273.7	100150.	8215.6
#2	4566.6	7256.1	99459.	8256.3

Sample Name: MB 480-144226/1-A Acquired: 10/18/2013 18:55:03 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00007	.04174	.00153	.00383	.00006	-0.00006	.03616	-0.00006	.00001
Stddev	.00075	.03053	.00123	.00006	.00000	.00001	.00487	.00001	.00011
%RSD	1037.6	73.154	80.735	1.6832	5.6430	21.134	13.460	9.6390	884.02

#1	-0.00060	.06333	.00066	.00387	.00005	-0.00007	.03272	-0.00007	-0.00006
#2	.00046	.02015	.00240	.00378	.00006	-0.00005	.03960	-0.00006	.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	-0.00089	-0.00607	-0.06567	.00427	.00011	.00001	.00045	-0.00019
Stddev	.00028	.00001	.00024	.07031	.00013	.00127	.00146	.00004	.00031
%RSD	279.39	.59042	3.9952	107.07	2.9832	1190.7	11605.	8.4464	160.99

#1	.00030	-0.00089	-0.00625	-1.1538	.00418	.00100	-0.00102	.00042	-0.00041
#2	-0.00010	-0.00088	-0.00590	-0.01595	.00436	-0.00079	.00104	.00047	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	.01239	-0.00047	.00048	.0109	.00058	-0.00076	.01188	-0.00037
Stddev	.00016	.00977	.00002	.00105	.0015	.00024	.00228	.00512	.00041
%RSD	134.37	78.858	4.0101	218.66	13.85	41.648	300.25	43.126	111.67

#1	.00024	.00548	-0.00048	.00122	.0119	.00041	.00085	.00826	-0.00008
#2	.00001	.01930	-0.00046	-0.00026	.0098	.00075	-0.00237	.01550	-0.00066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00027	.00018	.00121	-0.00005	.00149
Stddev	.00004	.00027	.00095	.00016	.00016
%RSD	14.303	146.74	78.236	303.89	10.971

#1	.00025	-0.00001	.00054	.00006	.00137
#2	.00030	.00037	.00188	-0.00017	.00160

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4770.4	7400.7	101310.	8203.2
Stddev	.7	.3	213.	2.2
%RSD	.01416	.00346	.20994	.02736

#1	4770.0	7400.8	101460.	8201.6
#2	4770.9	7400.5	101160.	8204.8

Sample Name: LCS 480-144226/2-A Acquired: 10/18/2013 18:57:28 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04870	10.205	.20355	.20460	.20195	.20517	9.8193	.20304	.19944
Stddev	.00005	.038	.00003	.00037	.00037	.00006	.0566	.00005	.00015
%RSD	.10342	.36958	.01258	.18151	.18192	.02740	.57640	.02599	.07515

#1	.04873	10.179	.20354	.20486	.20169	.20513	9.7793	.20300	.19955
#2	.04866	10.232	.20357	.20434	.20221	.20521	9.8593	.20308	.19933

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19707	.19680	10.214	9.7153	10.567	.19976	10.147	.20384	.18226
Stddev	.00040	.00005	.028	.0229	.172	.00056	.002	.00048	.00032
%RSD	.20187	.02569	.27026	.23580	1.6319	.28174	.01546	.23363	.17404

#1	.19735	.19676	10.194	9.6991	10.445	.19936	10.146	.20350	.18203
#2	.19679	.19684	10.233	9.7315	10.689	.20016	10.148	.20418	.18248

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20361	9.7773	.19888	.20122	10.45	.20954	.20140	9.8131	.19120
Stddev	.00001	.0362	.00025	.00171	.01	.00032	.00082	.0844	.00069
%RSD	.00512	.36989	.12557	.85131	.1108	.15440	.40609	.86045	.36153

#1	.20361	9.7518	.19906	.20001	10.45	.20977	.20082	9.7534	.19071
#2	.20360	9.8029	.19871	.20243	10.44	.20931	.20198	9.8729	.19169

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20454	.18869	.20578	.19483	.18984
Stddev	.00003	.00002	.00223	.00054	.00050
%RSD	.01694	.01127	1.0817	.27833	.26448

#1	.20451	.18871	.20421	.19445	.19019
#2	.20456	.18868	.20735	.19521	.18948

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4575.0	7320.3	99357.	8220.0
Stddev	1.1	5.8	53.	44.0
%RSD	.02472	.07972	.05310	.53569

#1	4575.8	7316.1	99319.	8251.2
#2	4574.2	7324.4	99394.	8188.9

Sample Name: 480-47704-E-1-A Acquired: 10/18/2013 18:59:47 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00089	.05131	.00091	.24681	.02359	-0.00012	616.33	.00017	-0.00018
Stddev	.00015	.00215	.00017	.00157	.00001	.00001	2.30	.00004	.00012
%RSD	17.038	4.1989	18.672	.63632	.02663	6.2975	.37239	25.152	65.636

#1	-0.00099	.05284	.00103	.24792	.02358	-0.00012	617.95	.00021	-0.00009
#2	-0.00078	.04979	.00079	.24570	.02359	-0.00011	614.71	.00014	-0.00026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00074	.00027	.38590	4.1901	6.6480	.02118	45.988	.01178	.01187
Stddev	.00033	.00032	.00466	.0338	.0530	.00027	.090	.00003	.00101
%RSD	43.918	117.30	1.2081	.80590	.79773	1.2887	.19656	.23940	8.5463

#1	.00051	.00050	.38261	4.2140	6.6105	.02137	45.924	.01176	.01115
#2	.00097	.00005	.38920	4.1663	6.6855	.02098	46.051	.01180	.01258

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00144	65.418	.00079	-0.00180	F 506.8	-0.00019	.00346	7.4540	-0.00002
Stddev	.00017	.480	.00002	.00234	.0	.00038	.00277	.0060	.00026
%RSD	12.039	.73406	2.8455	129.63	.0079	199.43	80.037	.08090	1438.8

#1	.00156	65.757	.00081	-0.00346	506.8	.00008	.00542	7.4582	-0.00020
#2	.00132	65.078	.00078	-0.00015	506.8	-0.00046	.00150	7.4497	.00017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 13.739	.00254	.00043	-0.00021	.00029
Stddev	.060	.00021	.00356	.00019	.00040
%RSD	.43379	8.1185	832.79	89.640	134.97

#1	13.781	.00239	-0.00209	-0.00008	.00058
#2	13.697	.00269	.00295	-0.00035	.00001

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-0.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3818.5	6437.4	87839.	8036.6
Stddev	5.9	1.5	227.	16.7
%RSD	.15427	.02300	.25895	.20807

#1	3822.7	6438.5	88000.	8024.7
#2	3814.4	6436.4	87678.	8048.4

Sample Name: 480-47704-E-2-A Acquired: 10/18/2013 19:02:25 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0039	.05632	.00298	.24801	.02509	-0.0010	604.52	.00011	-0.0012
Stddev	.00092	.00513	.00159	.00124	.00001	.00009	.83	.00012	.00018
%RSD	232.97	9.1168	53.309	.49835	.05818	87.184	.13805	107.47	159.16

#1	.00025	.05995	.00410	.24888	.02508	-0.0016	605.11	.00003	-.00024
#2	-.00104	.05269	.00185	.24713	.02510	-0.0004	603.93	.00019	.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00060	.00326	.37756	4.0341	6.4058	.01960	44.784	.00870	.00861
Stddev	.00013	.00021	.00024	.0902	.0097	.00068	.022	.00007	.00008
%RSD	22.121	6.4948	.06299	2.2360	.15059	3.4807	.04858	.76119	.89123

#1	.00051	.00311	.37773	3.9703	6.3990	.01912	44.769	.00866	.00855
#2	.00070	.00341	.37740	4.0979	6.4126	.02008	44.800	.00875	.00866

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00107	59.899	.00107	-0.0135	F 502.5	-0.00172	.00133	7.5181	.00041
Stddev	.00005	.344	.00028	.00030	3.2	.00036	.00098	.0049	.00041
%RSD	4.8718	.57354	26.515	21.856	.6458	20.847	73.275	.06471	98.500

#1	.00103	60.142	.00127	-.00156	504.8	-.00146	.00064	7.5215	.00013
#2	.00110	59.657	.00087	-.00114	500.3	-.00197	.00203	7.5147	.00070

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 13.550	.00234	-0.00097	-0.00031	.00108
Stddev	.004	.00003	.00147	.00019	.00051
%RSD	.02895	1.1274	150.89	59.923	47.339

#1	13.547	.00232	.00007	-.00018	.00072
#2	13.552	.00236	-.00201	-.00045	.00144

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3811.9	6434.2	87470.	8030.7
Stddev	5.2	25.8	25.	43.9
%RSD	.13757	.40134	.02909	.54681

#1	3808.1	6415.9	87452.	7999.6
#2	3815.6	6452.5	87488.	8061.7

Sample Name: CCV Acquired: 10/18/2013 19:05:03 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48424	24.526	.49874	.48329	.49767	.50048	24.054	.49631	.49133	.47824	.47471	24.756
Stddev	.00047	.027	.00114	.00103	.00018	.00139	.019	.00036	.00017	.00035	.00194	.038
%RSD	.09740	.11008	.22866	.21319	.03543	.27701	.07952	.07162	.03387	.07278	.40795	.15538

#1	.48457	24.507	.49954	.48256	.49755	.49950	24.067	.49605	.49144	.47799	.47334	24.729
#2	.48391	24.545	.49793	.48401	.49779	.50146	24.040	.49656	.49121	.47848	.47608	24.783

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.930	27.343	.49481	24.037	.50382	.46170	.48898	24.358	.49917	.50126	26.28	.52060
Stddev	.007	.051	.00081	.042	.00038	.00178	.00023	.016	.00015	.00151	.06	.00097
%RSD	.02900	.18826	.16319	.17551	.07465	.38604	.04618	.06568	.03073	.30201	.2175	.18719

#1	24.925	27.307	.49423	24.067	.50409	.46044	.48882	24.346	.49928	.50233	26.32	.51991
#2	24.935	27.380	.49538	24.007	.50356	.46296	.48914	24.369	.49906	.50018	26.24	.52129

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	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49313	23.861	.48415	.50464	.48048	.51002	.46276	.47080
Stddev	.00075	.021	.00022	.00002	.00080	.00161	.00215	.00158
%RSD	.15158	.08892	.04613	.00429	.16586	.31486	.46504	.33455

#1	.49260	23.846	.48399	.50465	.47991	.51115	.46124	.47191
#2	.49366	23.876	.48431	.50462	.48104	.50888	.46428	.46969

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4413.3	7283.6	98341.	8225.2
Stddev	3.2	5.7	39.	8.1
%RSD	.07146	.07864	.03947	.09897
#1	4411.1	7287.6	98368.	8219.4
#2	4415.6	7279.5	98313.	8230.9

Sample Name: CCB Acquired: 10/18/2013 19:07:25 Type: QC
 Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00022	.03033	.00048	.00069	-.00004	-.00011	-.00389	-.00001	-.00019	.00003	-.00091	-.00868
Stddev	.00058	.02091	.00129	.00036	.00002	.00004	.00035	.00007	.00002	.00003	.00010	.00033
%RSD	268.47	68.959	266.18	51.755	60.585	33.094	9.0901	486.59	11.507	94.841	10.595	3.8276

#1	.00063	.01554	-.00043	.00094	-.00002	-.00008	-.00414	-.00006	-.00018	.00001	-.00084	-.00845
#2	-.00019	.04511	.00139	.00044	-.00006	-.00013	-.00364	.00003	-.00021	.00005	-.00098	-.00892

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.09594	.00071	-.00116	-.00159	-.00008	-.00027	.00016	.01041	-.00031	-.00022	F .0229	-.00003
Stddev	.02510	.00047	.00110	.00063	.00006	.00003	.00007	.00401	.00017	.00004	.0015	.00093
%RSD	26.163	66.325	94.702	39.866	76.715	10.510	41.063	38.550	54.330	17.459	6.646	3591.9

#1	-.07819	.00104	-.00194	-.00114	-.00004	-.00025	.00012	.01324	-.00043	-.00020	.0239	-.00069
#2	-.11369	.00037	-.00038	-.00204	-.00012	-.00029	.00021	.00757	-.00019	-.00025	.0218	-.00064

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00078	.00767	-.00023	.00006	.00001	-.00118	.00003	-.00003
Stddev	.00264	.00432	.00002	.00003	.00015	.00135	.00003	.00037
%RSD	337.53	56.403	9.6059	45.463	1340.3	114.08	84.842	1334.5

#1	.00109	.00461	-.00021	.00004	-.00010	-.00023	.00001	.00023
#2	-.00265	.01072	-.00025	.00008	.00012	-.00214	.00005	-.00029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4750.2	7343.4	99995.	8074.0
Stddev	2.4	5.6	56.	5.8
%RSD	.05140	.07626	.05614	.07127
#1	4751.9	7339.4	99955.	8078.0
#2	4748.5	7347.3	100030.	8069.9

Sample Name: CCVL Acquired: 10/18/2013 19:09:50 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00235	W .26529	.01147	.01997	.00199	.00202	.49915	.00093	.00395	.00354	.00878
Stddev	.00005	.00692	.00230	.00030	.00001	.00011	.00299	.00008	.00018	.00011	.00009
%RSD	2.1005	2.6070	20.070	1.5239	.43717	5.4982	.59865	8.9008	4.5843	2.9990	1.0574

#1	.00232	.26040	.00984	.01976	.00200	.00194	.49703	.00099	.00408	.00347	.00884
#2	.00239	.27019	.01310	.02019	.00199	.00210	.50126	.00087	.00382	.00362	.00871

Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.20000									
Range		30.000%									

Elem	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04398	.39079	.44529	F .00262	.19678	.00357	.00308	.01019	.94120	.00946	.00542
Stddev	.00172	.02295	.00009	.00052	.00185	.00004	.00034	.00023	.00131	.00009	.00065
%RSD	3.9163	5.8721	.02017	19.837	.94192	.99865	11.083	2.2663	.13959	.95693	11.914

#1	.04276	.37456	.44523	.00225	.19809	.00360	.00333	.01002	.94213	.00952	.00497
#2	.04519	.40701	.44535	.00298	.19547	.00355	.00284	.01035	.94027	.00940	.00588

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.03000							
Range				-50.000%							

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0152	.02090	.01489	.49476	.00915	.00505	.00475	.02088	.00457	.01011
Stddev	.0035	.00001	.00016	.00481	.00028	.00007	.00003	.00094	.00024	.00002
%RSD	22.92	.04498	1.0563	.97197	3.0690	1.3510	.66794	4.5023	5.1595	.23905

#1	.0177	.02089	.01478	.49816	.00895	.00510	.00477	.02154	.00441	.01012
#2	.0127	.02090	.01500	.49136	.00935	.00500	.00473	.02021	.00474	.01009

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2000									
Range	-50.00%									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4763.9	7396.2	101180.	8099.0
Stddev	3.6	8.5	141.	22.5
%RSD	.07587	.11467	.13886	.27780
#1	4766.4	7402.2	101080.	8083.1
#2	4761.3	7390.3	101280.	8114.9

Sample Name: 480-47704-E-3-A Acquired: 10/18/2013 19:12:14 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0027	.05089	-0.0013	.30176	.03049	-0.0009	581.74	.00022	-0.0019
Stddev	.00003	.00819	.00403	.00095	.00005	.00011	2.86	.00004	.00002
%RSD	10.639	16.094	3125.7	.31407	.17415	112.82	.49079	15.983	8.2631

#1	-0.0029	.04510	.00272	.30243	.03045	-0.0017	579.73	.00020	-0.0020
#2	-0.0025	.05669	-0.00298	.30109	.03053	-0.0002	583.76	.00025	-0.0018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00083	.00050	1.0365	4.0149	6.2107	.02094	46.950	.01487	.01407
Stddev	.00002	.00003	.0020	.0077	.0777	.00023	.101	.00000	.00086
%RSD	2.8042	6.4495	.19049	.19134	1.2513	1.1221	.21452	.02246	6.0990

#1	.00085	.00047	1.0351	4.0203	6.2656	.02110	47.021	.01487	.01346
#2	.00081	.00052	1.0379	4.0095	6.1557	.02077	46.879	.01487	.01467

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00078	54.566	.00083	-0.00178	F 477.3	.00101	.00136	7.1906	-0.00035
Stddev	.00012	.207	.00038	.00169	1.8	.00024	.00322	.0267	.00016
%RSD	14.942	.37943	46.413	95.206	.3754	23.605	237.34	.37173	46.958

#1	.00086	54.420	.00110	-0.00058	476.0	.00118	.00363	7.1717	-0.00023
#2	.00070	54.713	.00056	-0.00297	478.6	.00084	-0.00092	7.2095	-0.00047

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 13.281	.00212	-0.00014	-0.00044	.00033
Stddev	.010	.00012	.00105	.00021	.00020
%RSD	.07627	5.7949	758.98	47.942	60.733

#1	13.274	.00203	.00060	-0.00059	.00048
#2	13.288	.00220	-0.00088	-0.00029	.00019

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-0.0500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3835.9	6449.7	88054.	7995.3
Stddev	1.1	.0	31.	23.5
%RSD	.02861	.00056	.03502	.29432

#1	3836.7	6449.7	88076.	8011.9
#2	3835.1	6449.7	88032.	7978.7

Sample Name: 480-47704-E-3-A SD@5 Acquired: 10/18/2013 19:14:52 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.03054	.00219	.05953	.00625	-.00009	122.46	.00002	-.00018
Stddev	.00020	.00654	.00239	.00028	.00001	.00010	.61	.00010	.00006
%RSD	688.09	21.420	108.90	.46304	.12419	115.69	.49791	534.21	35.035

#1	-.00011	.02591	.00388	.05934	.00626	-.00002	122.89	.00009	-.00022
#2	.00017	.03517	.00050	.05972	.00625	-.00015	122.03	-.00005	-.00013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00055	-.00053	.20808	.69285	.91442	.00283	9.6106	.00286	.00266
Stddev	.00006	.00013	.00176	.01948	.00387	.00091	.0221	.00000	.00054
%RSD	10.167	25.287	.84408	2.8118	.42352	32.085	.22963	.07031	20.153

#1	.00059	-.00044	.20684	.70663	.91715	.00347	9.5950	.00286	.00228
#2	.00051	-.00063	.20932	.67907	.91168	.00218	9.6262	.00286	.00304

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	10.004	.00010	-.00032	F 94.62	-.00102	.00132	1.4644	-.00041
Stddev	.00009	.085	.00001	.00072	.07	.00056	.00080	.0185	.00007
%RSD	63.647	.85231	5.5954	222.91	.0722	55.332	60.339	1.2609	17.343

#1	.00008	10.064	.00010	-.00083	94.57	-.00141	.00076	1.4514	-.00036
#2	.00021	9.9439	.00011	.00019	94.67	-.00062	.00189	1.4775	-.00046

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.7496	.00050	.00167	-.00006	.00009
Stddev	.0044	.00024	.00038	.00012	.00017
%RSD	.16029	47.526	22.636	207.10	183.91

#1	2.7465	.00033	.00193	-.00014	-.00003
#2	2.7527	.00067	.00140	.00003	.00021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4367.8	7009.8	95395.	8069.3
Stddev	1.8	3.0	64.	13.6
%RSD	.04198	.04284	.06683	.16883

#1	4366.5	7012.0	95350.	8059.6
#2	4369.1	7007.7	95440.	8078.9

Sample Name: 480-47704-E-3-A PDS Acquired: 10/18/2013 19:17:14 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05362	11.093	.23105	.51804	.23827	.21192	579.55	.22334	.21033
Stddev	.00013	.047	.00255	.00069	.00050	.00069	1.78	.00043	.00023
%RSD	.24938	.42224	1.1058	.13328	.21163	.32690	.30756	.19058	.10861

#1	.05372	11.059	.22924	.51755	.23863	.21143	578.29	.22304	.21049
#2	.05353	11.126	.23286	.51853	.23791	.21241	580.81	.22364	.21017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20165	.21207	11.487	16.062	23.105	.26540	55.911	.22114	.21722
Stddev	.00071	.00008	.046	.121	.041	.00202	.011	.00032	.00031
%RSD	.34988	.03683	.40260	.75526	.17730	.76296	.01948	.14663	.14418

#1	.20214	.21212	11.455	15.977	23.076	.26397	55.904	.22137	.21744
#2	.20115	.21201	11.520	16.148	23.134	.26683	55.919	.22091	.21700

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21224	65.343	.21080	.21008	F 464.7	.23068	.23980	17.279	.20590
Stddev	.00020	.249	.00064	.00257	1.4	.00166	.00492	.093	.00101
%RSD	.09342	.38082	.30244	1.2237	.3087	.71995	2.0498	.53567	.48989

#1	.21210	65.167	.21125	.21189	463.7	.23185	.24327	17.213	.20661
#2	.21238	65.519	.21035	.20826	465.8	.22950	.23632	17.344	.20519

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 13.264	.19907	.20858	.20233	.18830
Stddev	.017	.00057	.00197	.00032	.00071
%RSD	.13038	.28383	.94224	.15582	.37760

#1	13.276	.19867	.20997	.20211	.18780
#2	13.252	.19947	.20719	.20256	.18880

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3805.3	6487.4	88429.	7948.6
Stddev	2.1	14.7	2.	12.5
%RSD	.05491	.22610	.00224	.15775

#1	3806.7	6497.7	88430.	7957.5
#2	3803.8	6477.0	88427.	7939.8

Sample Name: 480-47704-E-3-B MS Acquired: 10/18/2013 19:19:45 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05308	10.573	.22575	.51816	.23074	.20735	586.92	.21934	.20767
Stddev	.00051	.047	.00092	.00026	.00051	.00017	3.00	.00073	.00047
%RSD	.96641	.44906	.40848	.04957	.22289	.08373	.51173	.33489	.22681

#1	.05272	10.539	.22510	.51834	.23110	.20723	584.80	.21986	.20801
#2	.05344	10.606	.22640	.51798	.23038	.20747	589.05	.21882	.20734

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19691	.20979	11.209	15.624	22.749	.25230	56.591	.21654	.21333
Stddev	.00183	.00065	.023	.150	.392	.00081	.184	.00065	.00278
%RSD	.93028	.30930	.20127	.96053	1.7247	.32138	.32582	.29892	1.3051

#1	.19821	.21025	11.193	15.518	22.472	.25173	56.721	.21699	.21530
#2	.19562	.20933	11.225	15.730	23.027	.25288	56.461	.21608	.21136

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20924	65.764	.20627	.20557	F 484.8	.22524	.23705	17.307	.20124
Stddev	.00073	.000	.00036	.00160	.8	.00124	.00094	.180	.00116
%RSD	.34901	.00057	.17245	.77820	.1648	.55246	.39626	1.0391	.57447

#1	.20976	65.764	.20652	.20670	485.3	.22612	.23771	17.180	.20206
#2	.20872	65.764	.20602	.20443	484.2	.22436	.23638	17.434	.20042

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 13.409	.19666	.20453	.19961	.18428
Stddev	.235	.00024	.00197	.00038	.00046
%RSD	1.7520	.11973	.96208	.18893	.24697

#1	13.575	.19649	.20592	.19988	.18461
#2	13.243	.19682	.20314	.19934	.18396

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3791.4	6462.4	88396.	7989.2
Stddev	2.9	3.0	274.	60.1
%RSD	.07610	.04659	.30985	.75188

#1	3789.3	6460.3	88202.	8031.7
#2	3793.4	6464.6	88590.	7946.8

Sample Name: 480-47704-E-3-C MSD Acquired: 10/18/2013 19:22:17 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05311	10.680	.22419	.51971	.23052	.20723	589.53	.22088	.20810
Stddev	.00117	.043	.00062	.00089	.00129	.00021	2.36	.00081	.00002
%RSD	2.1937	.40481	.27870	.17078	.56164	.10132	.40067	.36634	.01087

#1	.05393	10.710	.22463	.52034	.23144	.20738	591.20	.22145	.20812
#2	.05228	10.649	.22374	.51908	.22961	.20708	587.86	.22031	.20809

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19552	.20799	11.244	15.699	22.688	.25425	56.731	.22081	.21435
Stddev	.00182	.00141	.014	.069	.160	.00141	.021	.00032	.00054
%RSD	.93047	.67633	.12125	.44045	.70518	.55294	.03670	.14499	.25012

#1	.19680	.20899	11.234	15.748	22.801	.25524	56.716	.22104	.21397
#2	.19423	.20700	11.254	15.651	22.575	.25325	56.745	.22059	.21473

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21031	65.900	.21036	.20808	F 491.3	.23005	.23265	17.435	.20139
Stddev	.00017	.266	.00009	.00005	.7	.00299	.00193	.048	.00093
%RSD	.07980	.40436	.04372	.02634	.1495	1.3010	.83001	.27714	.45972

#1	.21043	66.089	.21030	.20804	490.7	.23217	.23129	17.469	.20073
#2	.21020	65.712	.21043	.20812	491.8	.22793	.23402	17.401	.20204

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 13.364	.19617	.20783	.19778	.18539
Stddev	.010	.00119	.00078	.00150	.00227
%RSD	.07427	.60858	.37667	.75894	1.2223

#1	13.371	.19701	.20728	.19884	.18699
#2	13.357	.19532	.20839	.19672	.18379

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3782.8	6463.3	88562.	7962.0
Stddev	8.3	5.4	345.	41.7
%RSD	.21929	.08345	.38930	.52334

#1	3788.7	6459.5	88318.	7932.5
#2	3776.9	6467.1	88806.	7991.4

Sample Name: 480-47704-E-4-A Acquired: 10/18/2013 19:24:47 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0063	.05792	.00313	.49113	.01093	.00000	560.04	.00019	-0.0018
Stddev	.00078	.00255	.00038	.00169	.00003	.00003	.06	.00008	.00010
%RSD	123.50	4.3997	12.138	.34492	.25095	1758.2	.01156	41.784	55.614

#1	-0.00119	.05612	.00286	.49233	.01095	.00002	560.00	.00014	-0.0025
#2	-0.00008	.05972	.00339	.48994	.01091	-0.00002	560.09	.00025	-0.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00074	.00046	2.2137	5.5132	8.3800	.02660	45.580	.01646	.01596
Stddev	.00010	.00019	.0109	.0115	.1147	.00078	.119	.00014	.00044
%RSD	13.294	41.782	.49044	.20793	1.3684	2.9258	.26184	.85946	2.7706

#1	.00081	.00060	2.2214	5.5213	8.4611	.02715	45.665	.01656	.01627
#2	.00067	.00033	2.2060	5.5051	8.2989	.02605	45.496	.01636	.01565

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00090	26.822	.00083	-0.00102	F 467.5	-0.00142	.00752	8.4339	-0.00018
Stddev	.00002	.054	.00064	.00125	.5	.00141	.00216	.0414	.00016
%RSD	2.0814	.20003	77.059	122.01	.1137	98.969	28.687	.49132	85.195

#1	.00088	26.860	.00038	-0.00190	467.2	-0.00043	.00599	8.4632	-0.00029
#2	.00091	26.784	.00128	-0.00014	467.9	-0.00242	.00904	8.4046	-0.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 15.666	.00253	-0.00102	-0.00020	.00105
Stddev	.013	.00009	.00345	.00000	.00027
%RSD	.08589	3.7264	338.34	2.4667	26.090

#1	15.657	.00247	-0.00346	-0.00019	.00086
#2	15.676	.00260	.00142	-0.00020	.00125

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-0.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3877.1	6481.5	88360.	7944.9
Stddev	3.2	.6	375.	52.9
%RSD	.08214	.00941	.42399	.66555

#1	3874.8	6481.9	88095.	7907.6
#2	3879.3	6481.1	88624.	7982.3

Sample Name: 480-47704-E-5-A Acquired: 10/18/2013 19:27:25 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00047	.05448	.00074	3.3521	.00423	-0.00015	538.02	.00027	-0.00026
Stddev	.00019	.01710	.00058	.0007	.00002	.00000	.38	.00006	.00001
%RSD	40.224	31.385	78.469	.02192	.47181	.63837	.07138	22.370	3.7728

#1	-0.00060	.06658	.00033	3.3516	.00424	-0.00015	538.29	.00031	-0.00025
#2	-0.00033	.04239	.00115	3.3526	.00421	-0.00015	537.75	.00023	-0.00026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00050	.00009	.62476	27.095	35.602	.12809	80.594	.03216	.03145
Stddev	.00020	.00006	.00310	.009	.285	.00102	.306	.00014	.00009
%RSD	39.252	64.309	.49556	.03442	.79998	.79290	.37959	.42933	.29066

#1	.00036	.00013	.62695	27.102	35.803	.12737	80.810	.03226	.03138
#2	.00064	.00005	.62257	27.089	35.400	.12880	80.377	.03206	.03151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 {57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00051	38.224	.00019	-0.00055	F 579.0	.00178	.00652	6.1141	-0.00041
Stddev	.00027	.126	.00003	.00035	1.0	.00246	.00354	.0064	.00014
%RSD	52.884	.33074	15.867	63.562	.1756	137.91	54.311	.10482	34.938

#1	.00032	38.135	.00021	-0.00079	579.8	.00352	.00903	6.1096	-0.00051
#2	.00070	38.314	.00017	-0.00030	578.3	.00004	.00402	6.1187	-0.00031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 11.771	.00230	-0.00031	-0.00011	.00054
Stddev	.005	.00037	.00199	.00018	.00025
%RSD	.03937	16.278	632.18	162.63	47.021

#1	11.775	.00203	.00109	.00002	.00036
#2	11.768	.00256	-0.00172	-0.00023	.00072

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-0.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3850.6	6453.9	88097.	7917.4
Stddev	5.7	6.3	208.	19.6
%RSD	.14808	.09733	.23619	.24783

#1	3846.6	6449.4	87950.	7903.5
#2	3854.7	6458.3	88244.	7931.3

Sample Name: 480-47704-E-6-A Acquired: 10/18/2013 19:30:03 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00014	.06971	.00213	1.1397	.01775	-0.00007	456.62	.00021	-0.00026
Stddev	.00042	.01569	.00083	.0003	.00007	.00004	1.60	.00006	.00023
%RSD	295.29	22.501	38.979	.02247	.41427	49.165	.35125	27.046	89.497

#1	.00016	.05862	.00154	1.1395	.01769	-0.00010	457.76	.00025	-0.00009
#2	-.00044	.08081	.00272	1.1398	.01780	-0.00005	455.49	.00017	-0.00042

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00085	.00069	.74889	9.9970	14.322	.04168	64.598	.02739	.02562
Stddev	.00013	.00031	.00303	.1263	.040	.00139	.290	.00020	.00133
%RSD	15.193	44.507	.40439	1.2636	.27638	3.3349	.44905	.72640	5.1970

#1	.00094	.00090	.75103	9.9077	14.294	.04070	64.803	.02753	.02656
#2	.00076	.00047	.74675	10.086	14.350	.04266	64.393	.02725	.02468

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00096	21.850	.00100	-0.00131	F 411.6	-0.00001	.00409	7.8641	-0.00007
Stddev	.00037	.264	.00005	.00017	1.6	.00010	.00095	.0726	.00045
%RSD	38.351	1.2061	5.2709	13.099	.3812	1020.3	23.293	.92370	641.72

#1	.00070	21.663	.00097	-0.00119	412.7	-0.00008	.00342	7.8128	.00025
#2	.00122	22.036	.00104	-0.00143	410.5	.00006	.00477	7.9155	-0.00039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 13.105	.00235	.00098	-0.00016	.00082
Stddev	.037	.00017	.00024	.00036	.00005
%RSD	.28584	7.4119	24.069	226.97	5.6575

#1	13.079	.00247	.00082	-0.00041	.00079
#2	13.132	.00222	.00115	.00009	.00085

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3915.2	6527.7	89399.	7950.8
Stddev	3.7	6.4	219.	23.5
%RSD	.09568	.09759	.24532	.29620

#1	3912.6	6532.2	89244.	7967.4
#2	3917.9	6523.2	89555.	7934.1

Sample Name: 480-47704-E-7-A Acquired: 10/18/2013 19:32:40 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0070	.06264	.00375	3.4651	.00468	-0.0008	586.53	.00032	-0.0016
Stddev	.00102	.01402	.00280	.0061	.00001	.00000	1.43	.00002	.00003
%RSD	146.06	22.387	74.748	.17478	.23773	5.9900	.24382	7.6043	19.661

#1	.00002	.05272	.00573	3.4694	.00467	-0.0008	585.52	.00030	-0.0014
#2	-.00143	.07256	.00177	3.4608	.00468	-0.0008	587.54	.00033	-0.0018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00086	.00104	.65579	30.054	38.722	.07879	68.144	.02888	.02811
Stddev	.00007	.00002	.00217	.013	.204	.00011	.057	.00008	.00051
%RSD	8.1273	1.8221	.33036	.04363	.52631	.13693	.08369	.26607	1.8018

#1	.00081	.00102	.65426	30.063	38.578	.07871	68.104	.02893	.02847
#2	.00091	.00105	.65732	30.045	38.866	.07887	68.185	.02883	.02776

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00064	37.170	.00074	-.00140	F 559.8	-0.00066	.00614	8.1422	-0.00002
Stddev	.00007	.135	.00000	.00011	1.1	.00286	.00026	.0019	.00088
%RSD	11.480	.36352	.53359	8.1434	.1917	437.19	4.2765	.02271	4210.9

#1	.00069	37.075	.00075	-.00132	559.0	.00137	.00632	8.1409	.00060
#2	.00059	37.266	.00074	-.00148	560.6	-.00268	.00595	8.1435	-.00065

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 12.594	.00221	.00175	-.00039	.00216
Stddev	.004	.00028	.00003	.00001	.00003
%RSD	.03268	12.462	1.5878	1.8809	1.5045

#1	12.591	.00241	.00173	-.00038	.00219
#2	12.597	.00202	.00177	-.00039	.00214

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3801.1	6411.0	87848.	7880.9
Stddev	1.7	4.1	211.	3.7
%RSD	.04504	.06424	.23994	.04753

#1	3802.3	6408.1	87997.	7883.6
#2	3799.9	6414.0	87699.	7878.3

Sample Name: CCV Acquired: 10/18/2013 19:35:18 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48585	24.558	.50388	.48978	.50086	.49913	24.040	.49625	.49127	.48142	.47840	24.713
Stddev	.00321	.010	.00114	.00005	.00057	.00096	.078	.00030	.00011	.00527	.00357	.012
%RSD	.65977	.04061	.22709	.01035	.11390	.19275	.32506	.06068	.02252	1.0948	.74728	.05049

#1	.48812	24.551	.50469	.48982	.50126	.49845	24.095	.49646	.49135	.48515	.48093	24.721
#2	.48358	24.565	.50307	.48975	.50046	.49981	23.984	.49603	.49119	.47770	.47587	24.704

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.249	F 27.656	.50239	24.087	.50478	.45950	.48954	24.648	.49837	.50225	26.28	.52356
Stddev	.047	.079	.00205	.180	.00291	.00588	.00038	.090	.00061	.00186	.01	.00230
%RSD	.18661	.28664	.40822	.74679	.57599	1.2788	.07746	.36545	.12317	.37104	.0441	.43941

#1	25.216	27.712	.50384	24.214	.50684	.46366	.48981	24.711	.49881	.50093	26.29	.52519
#2	25.282	27.600	.50094	23.960	.50273	.45535	.48927	24.584	.49794	.50356	26.27	.52193

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25.000										
Range		10.000%										

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49513	23.925	.48430	.50462	.48272	.50655	.46685	.47331
Stddev	.00025	.103	.00123	.00038	.00136	.00088	.00306	.00594
%RSD	.04953	.43124	.25396	.07629	.28071	.17411	.65553	1.2543

#1	.49531	23.998	.48343	.50435	.48368	.50717	.46901	.47751
#2	.49496	23.852	.48517	.50489	.48176	.50592	.46469	.46911

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4420.3	7284.3	98070.	8158.2
Stddev	7.3	14.8	743.	8.4
%RSD	.16409	.20312	.75730	.10244
#1	4425.4	7294.7	97545.	8164.1
#2	4415.2	7273.8	98595.	8152.3

Sample Name: CCB Acquired: 10/18/2013 19:37:40 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00062	.01257	.00048	.00379	-.00004	-.00004	-.00348	-.00010	-.00018	.00001	-.00094	-.00433
Stddev	.00046	.01489	.00172	.00030	.00000	.00003	.00057	.00006	.00006	.00007	.00019	.00013
%RSD	73.227	118.48	355.24	8.0032	7.7882	62.954	16.443	57.625	32.159	998.03	20.441	2.8896

#1	-.00030	.00204	-.00073	.00358	-.00004	-.00002	-.00308	-.00015	-.00014	.00006	-.00081	-.00442
#2	-.00095	.02309	.00170	.00401	-.00004	-.00006	-.00389	-.00006	-.00022	-.00004	-.00108	-.00424

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.07240	.00092	-.00058	-.00167	-.00009	-.00038	.00022	.01181	-.00036	-.00005	F .0481	.00073
Stddev	.07624	.00044	.00183	.00019	.00002	.00036	.00022	.01275	.00009	.00056	.0019	.00102
%RSD	105.30	47.468	313.59	11.612	25.682	96.050	97.635	107.89	25.834	1092.5	3.927	138.93

#1	-.01849	.00123	-.00188	-.00154	-.00011	-.00012	.00038	.00280	-.00030	.00035	.0495	.00145
#2	-.12631	.00061	.00071	-.00181	-.00008	-.00064	.00007	.02083	-.00043	-.00045	.0468	.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00139	-.00295	-.00004	.00008	.00009	.00029	-.00004	.00025
Stddev	.00029	.02403	.00050	.00013	.00027	.00067	.00005	.00016
%RSD	20.912	813.43	1208.2	160.53	288.92	230.05	117.23	61.222

#1	.00118	.01404	.00031	.00017	-.00010	-.00018	-.00007	.00014
#2	.00159	-.01995	-.00039	-.00001	.00029	.00077	-.00001	.00037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4751.5	7350.4	99950.	8060.9
Stddev	12.0	9.4	797.	1.3
%RSD	.25317	.12852	.79774	.01632
#1	4743.0	7343.7	99386.	8061.8
#2	4760.0	7357.1	100510.	8059.9

Sample Name: CCVL Acquired: 10/18/2013 19:40:06 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00289	.23322	.01225	.02224	.00200	.00203	.50053	.00086	.00384	.00355	.00890	.04126
Stddev	.00007	.01816	.00021	.00008	.00000	.00005	.00947	.00002	.00008	.00059	.00009	.00109
%RSD	2.4955	7.7858	1.7111	.35157	.13277	2.5506	1.8917	1.9049	2.0535	16.675	1.0424	2.6356

#1	.00284	.24606	.01240	.02219	.00200	.00206	.49383	.00087	.00389	.00397	.00883	.04049
#2	.00294	.22038	.01211	.02230	.00200	.00199	.50722	.00085	.00378	.00313	.00896	.04202

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.38917	.44763	F .00264	.20109	.00353	.00266	.01038	.93564	.00967	.00498	F .0432	.02158
Stddev	.00518	.00548	.00065	.00516	.00001	.00033	.00006	.01355	.00009	.00093	.0044	.00201
%RSD	1.3321	1.2248	24.452	2.5645	.37816	12.248	.53586	1.4483	.95922	18.608	10.21	9.3336

#1	.38551	.44375	.00310	.20474	.00352	.00289	.01042	.92605	.00960	.00433	.0463	.02015
#2	.39284	.45150	.00219	.19744	.00354	.00243	.01034	.94522	.00973	.00564	.0400	.02300

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01504	.49514	.00856	.00541	.00451	.02035	.00485	.00955
Stddev	.00043	.02267	.00060	.00007	.00008	.00122	.00007	.00000
%RSD	2.8740	4.5790	7.0675	1.2423	1.8644	5.9809	1.3449	.01060

#1	.01474	.47911	.00813	.00545	.00457	.02121	.00481	.00955
#2	.01535	.51117	.00899	.00536	.00445	.01948	.00490	.00954

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4745.2	7384.3	100330.	8094.6
Stddev	6.7	4.1	67.	60.1
%RSD	.14216	.05572	.06641	.74220

#1	4750.0	7387.2	100280.	8137.1
#2	4740.5	7381.4	100380.	8052.1

Sample Name: 480-47680-C-1-A Acquired: 10/18/2013 19:42:31 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	.05111	.01828	.10321	.02231	-.00014	160.47	.00013	.00022
Stddev	.00005	.00521	.00085	.00052	.00011	.00004	.15	.00001	.00005
%RSD	29.993	10.203	4.6507	.50037	.47234	26.088	.09640	5.3546	24.021

#1	.00020	.05480	.01768	.10357	.02239	-.00016	160.57	.00014	.00026
#2	.00013	.04742	.01888	.10284	.02224	-.00011	160.36	.00013	.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00070	.00038	1.0763	2.4137	3.6229	.02218	63.946	.07809	.07201
Stddev	.00013	.00009	.0085	.0008	.0280	.00018	.150	.00002	.00025
%RSD	18.343	23.042	.79039	.03306	.77388	.79900	.23408	.02388	.35147

#1	.00079	.00032	1.0703	2.4143	3.6427	.02205	64.052	.07811	.07184
#2	.00061	.00045	1.0824	2.4131	3.6031	.02230	63.840	.07808	.07219

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04272	70.564	.00114	-.00299	F 135.0	-.00094	.00219	9.4747	-.00026
Stddev	.00011	.079	.00041	.00041	.4	.00026	.00109	.0179	.00034
%RSD	.25430	.11257	35.730	13.597	.2992	27.246	49.586	.18896	132.92

#1	.04264	70.620	.00085	-.00270	135.3	-.00076	.00142	9.4873	-.00002
#2	.04280	70.508	.00143	-.00328	134.7	-.00112	.00296	9.4620	-.00050

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	8.4438	.00079	.00334	-.00010	.00119
Stddev	.0179	.00014	.00068	.00001	.00006
%RSD	.21177	17.857	20.464	14.232	4.7252

#1	8.4565	.00069	.00286	-.00011	.00115
#2	8.4312	.00089	.00382	-.00009	.00123

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4101.9	6757.3	92178.	8006.7
Stddev	1.9	3.7	228.	14.9
%RSD	.04519	.05527	.24754	.18575

#1	4103.2	6754.6	92017.	8017.2
#2	4100.6	6759.9	92339.	7996.2

Sample Name: 480-47680-C-2-A Acquired: 10/18/2013 19:44:57 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00027	.04663	.00742	1.0847	.46524	.44245	-0.00008	74.573	.00017
Stddev	.00033	.02779	.00126	.0023	.00213	.00022	.00002	.272	.00003
%RSD	123.26	59.605	17.047	.20916	.45743	.04915	26.580	.36520	16.820

#1	-0.00003	.06628	.00831	1.0863	.46374	.44261	-0.00007	74.380	.00019
#2	-0.00050	.02698	.00653	1.0831	.46675	.44230	-0.00010	74.765	.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576
Line	228.616 {447}	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	.00081	.00009	1.9675	6.5022	9.8463	.03714	45.507	.10583
Stddev	.00010	.00035	.00005	.0059	.0574	.0665	.00243	.070	.00006
%RSD	78.911	42.821	58.958	.29956	.88278	.67506	6.5549	.15368	.05349

#1	.00020	.00056	.00012	1.9717	6.4616	9.7993	.03542	45.556	.10587
#2	.00006	.00105	.00005	1.9634	6.5428	9.8933	.03887	45.457	.10579

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mn2576-2	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	257.610 {131}2	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09967	.00571	255.79	.00023	-.00166	.1444	-.00138	.00149	4.4250
Stddev	.00055	.00011	.76	.00006	.00010	.0008	.00352	.00209	.0639
%RSD	.54777	1.9935	.29886	27.446	6.0407	.5676	254.95	139.86	1.4443

#1	.09929	.00579	255.25	.00019	-.00174	.1438	.00111	.00297	4.3798
#2	.10006	.00563	256.33	.00028	-.00159	.1449	-.00386	.00002	4.4702

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00038	F 14.080	.00060	-0.00092	-0.00025	-0.00004
Stddev	.00030	.020	.00011	.00348	.00022	.00004
%RSD	79.953	.14524	17.474	376.62	89.864	91.581

#1	-0.00059	14.066	.00068	-.00338	-0.00009	-0.00007
#2	-0.00017	14.095	.00053	.00153	-0.00041	-0.00002

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		10.000				
Low Limit		-.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4013.6	6755.0	90723.	8021.6
Stddev	9.4	17.7	206.	19.9
%RSD	.23421	.26134	.22729	.24750

#1	4006.9	6742.6	90869.	8035.6
#2	4020.2	6767.5	90577.	8007.5

Sample Name: 480-47680-C-3-A Acquired: 10/18/2013 19:47:41 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00034	.06546	.00609	.10543	.06425	-0.00012	124.85	.00019	.00020
Stddev	.00029	.00215	.00038	.00033	.00010	.00004	.34	.00001	.00002
%RSD	84.339	3.2809	6.3214	.31047	.15237	29.855	.27284	6.4628	9.8053

#1	-0.00054	.06394	.00582	.10566	.06418	-0.00010	125.09	.00019	.00019
#2	-0.00014	.06698	.00636	.10520	.06432	-0.00015	124.61	.00018	.00022

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00051	.00225	2.9353	2.7012	3.8758	.01997	57.707	.09643	.08958
Stddev	.00004	.00003	.0109	.0129	.0114	.00016	.055	.00010	.00015
%RSD	8.5090	1.1487	.36981	.47558	.29418	.82312	.09453	.10012	.16688

#1	.00048	.00223	2.9276	2.6921	3.8678	.01985	57.745	.09650	.08948
#2	.00054	.00227	2.9430	2.7103	3.8839	.02009	57.668	.09636	.08969

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01731	64.584	.01227	-0.00272	F 111.0	-0.00120	.00192	9.4352	.00012
Stddev	.00013	.365	.00068	.00110	.1	.00038	.00141	.0196	.00046
%RSD	.73164	.56466	5.5159	40.359	.0580	31.475	73.234	.20746	370.74

#1	.01722	64.842	.01275	-0.00349	110.9	-0.00146	.00292	9.4213	-0.00020
#2	.01740	64.326	.01179	-0.00194	111.0	-0.00093	.00093	9.4490	.00045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	5.9258	.00073	.00152	-0.00021	.02043
Stddev	.0005	.00015	.00006	.00006	.00009
%RSD	.00888	20.957	4.0025	26.758	.42175

#1	5.9262	.00062	.00148	-0.00017	.02049
#2	5.9254	.00084	.00156	-0.00025	.02037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4176.0	6832.7	93091.	8027.1
Stddev	1.9	3.5	51.	15.9
%RSD	.04438	.05109	.05524	.19782

#1	4174.7	6830.2	93055.	8015.9
#2	4177.3	6835.2	93128.	8038.3

Sample Name: 480-47680-C-4-A Acquired: 10/18/2013 19:50:08 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00047	.08190	.02159	.06023	.01319	-0.00006	337.36	.00029	.00244
Stddev	.00023	.01225	.00074	.00041	.00001	.00000	1.02	.00012	.00009
%RSD	50.178	14.958	3.4272	.67594	.05863	7.6342	.30318	43.670	3.7223

#1	-0.00063	.09056	.02106	.05995	.01319	-0.00006	336.64	.00020	.00238
#2	-0.00030	.07324	.02211	.06052	.01320	-0.00006	338.08	.00037	.00251

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00393	.00017	5.1945	4.7671	7.7518	.06559	157.62	.48413	.47095
Stddev	.00038	.00016	.00086	.0745	.0208	.00026	.01	.00030	.00226
%RSD	9.5693	93.148	.16529	1.5629	.26809	.39663	.00358	.06256	.47922

#1	.00367	.00006	5.1884	4.8198	7.7371	.06578	157.62	.48391	.47255
#2	.00420	.00028	5.2006	4.7144	7.7665	.06541	157.61	.48434	.46935

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01053	183.15	.00394	-0.00332	F 492.7	-0.00226	.00126	11.876	-0.00053
Stddev	.00015	.16	.00063	.00100	1.0	.00078	.00112	.054	.00057
%RSD	1.4203	.08475	15.888	30.117	.2046	34.650	89.081	.45179	107.65

#1	.01042	183.04	.00350	-0.00261	492.0	-0.00171	.00047	11.838	-0.00013
#2	.01063	183.26	.00439	-0.00402	493.4	-0.00281	.00205	11.914	-0.00093

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	4.9108	.00174	-0.00003	-0.00019	.00424
Stddev	.0156	.00032	.00434	.00011	.00048
%RSD	.31682	18.539	15707.	57.569	11.309

#1	4.9218	.00197	.00304	-0.00027	.00458
#2	4.8998	.00151	-0.00310	-0.00011	.00390

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3821.3	6467.2	87766.	7927.1
Stddev	3.3	7.4	121.	79.2
%RSD	.08543	.11473	.13749	.99863

#1	3823.6	6472.5	87852.	7983.1
#2	3819.0	6462.0	87681.	7871.1

Sample Name: 480-47680-C-5-A Acquired: 10/18/2013 19:52:46 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.04131	.00120	.06869	.00969	-.00009	480.76	.00026	.00318
Stddev	.00054	.00251	.00027	.00005	.00001	.00005	1.41	.00001	.00014
%RSD	2170.5	6.0740	22.491	.07040	.06125	62.420	.29253	4.3095	4.4395

#1	-.00036	.03954	.00139	.06866	.00968	-.00005	481.75	.00025	.00308
#2	.00041	.04309	.00101	.06873	.00969	-.00013	479.76	.00027	.00328

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00124	.00027	3.0270	5.2870	8.1508	.04236	115.58	1.9059	1.8464
Stddev	.00021	.00017	.0067	.0024	.0129	.00055	.21	.0021	.0013
%RSD	16.716	65.616	.22161	.04534	.15878	1.3098	.17757	.11019	.07232

#1	.00138	.00014	3.0223	5.2887	8.1417	.04275	115.73	1.9073	1.8474
#2	.00109	.00039	3.0318	5.2853	8.1600	.04197	115.44	1.9044	1.8455

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00062	55.163	.00626	.00036	F 540.3	-.00046	.00634	7.3651	-.00044
Stddev	.00020	.380	.00044	.00021	.1	.00047	.00121	.0239	.00003
%RSD	32.608	.68920	7.0633	57.554	.0224	102.16	19.086	.32508	7.4287

#1	.00048	55.432	.00657	.00021	540.2	-.00013	.00720	7.3820	-.00046
#2	.00076	54.894	.00594	.00051	540.4	-.00079	.00549	7.3482	-.00041

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 10.904	.00193	.00096	-.00042	.00412
Stddev	.127	.00006	.00009	.00010	.00001
%RSD	1.1659	3.2873	9.0459	22.701	.31855

#1	10.994	.00188	.00090	-.00049	.00411
#2	10.815	.00197	.00102	-.00035	.00413

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3865.7	6499.4	88756.	7895.9
Stddev	1.8	12.9	200.	8.3
%RSD	.04628	.19806	.22527	.10506

#1	3867.0	6508.5	88614.	7890.0
#2	3864.4	6490.3	88897.	7901.7

Sample Name: 480-47680-C-6-A Acquired: 10/18/2013 19:55:23 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0035	.06198	.00296	1.7749	.03649	-0.0004	104.12	.00022	-0.0004
Stddev	.00018	.01040	.00103	.0019	.00011	.00000	.28	.00006	.00003
%RSD	51.717	16.788	34.893	.10519	.30653	4.1705	.26483	28.158	63.780

#1	-0.00048	.05462	.00223	1.7762	.03641	-0.0004	103.93	.00018	-0.0006
#2	-0.00022	.06933	.00369	1.7736	.03657	-0.0004	104.32	.00027	-0.0002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00258	.00010	.28440	11.716	17.768	.13014	65.576	.04846	.04636
Stddev	.00006	.00017	.00362	.006	.070	.00083	.002	.00003	.00110
%RSD	2.4800	166.68	1.2739	.05118	.39270	.63730	.00273	.05241	2.3691

#1	.00263	-0.00002	.28184	11.711	17.818	.12956	65.575	.04847	.04558
#2	.00254	.00022	.28697	11.720	17.719	.13073	65.577	.04844	.04714

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 {41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02956	319.37	.00074	-0.0121	F 44.19	-0.00020	.00025	4.3280	-0.00026
Stddev	.00039	.02	.00003	.00153	.05	.00134	.00226	.0251	.00013
%RSD	1.3126	.00474	3.7947	126.19	.1080	661.23	902.36	.57994	52.403

#1	.02983	319.36	.00072	-0.00229	44.16	-0.00115	.00185	4.3458	-0.00035
#2	.02928	319.38	.00076	-0.00013	44.23	.00075	-0.00135	4.3103	-0.00016

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 25.166	.00056	.00115	-0.00013	.00072
Stddev	.064	.00019	.00014	.00006	.00014
%RSD	.25519	33.748	12.119	41.331	19.314

#1	25.121	.00043	.00125	-0.00009	.00062
#2	25.212	.00070	.00105	-0.00017	.00082

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-0.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3924.1	6630.0	89140.	8005.3
Stddev	.1	7.5	157.	23.2
%RSD	.00287	.11271	.17599	.28974

#1	3924.0	6624.7	89251.	8021.7
#2	3924.2	6635.3	89029.	7988.9

Sample Name: 480-47680-C-7-A Acquired: 10/18/2013 19:58:01 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00095	.05963	.00447	1.9804	1.0259	-0.00009	288.48	.00040	-0.00004
Stddev	.00024	.00875	.00149	.0024	.0016	.00004	.73	.00005	.00014
%RSD	25.609	14.679	33.274	.11985	.15843	45.279	.25164	11.733	316.46

#1	-0.00078	.06582	.00341	1.9820	1.0270	-0.00006	287.97	.00037	.00005
#2	-0.00113	.05344	.00552	1.9787	1.0247	-0.00012	289.00	.00044	-0.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00128	.00080	3.2125	25.613	41.406	.54334	183.71	.16927	.17128
Stddev	.00023	.00029	.0161	.000	.111	.00092	.25	.00023	.00067
%RSD	17.921	36.968	.50065	.00077	.26744	.16958	.13588	.13495	.39190

#1	.00144	.00100	3.2012	25.613	41.485	.54269	183.54	.16911	.17080
#2	.00112	.00059	3.2239	25.612	41.328	.54399	183.89	.16943	.17175

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00043	1072.2	.00070	-0.00048	.0628	-0.00156	.00371	4.6266	-0.00058
Stddev	.00023	1.4	.00007	.00071	.0046	.00288	.00128	.0302	.00008
%RSD	53.940	.13422	9.9543	147.90	7.279	184.22	34.537	.65290	13.200

#1	.00027	1071.2	.00065	.00002	.0660	-0.00360	.00462	4.6053	-0.00064
#2	.00060	1073.2	.00075	-0.00098	.0596	.00047	.00281	4.6480	-0.00053

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 25.200	.00098	.00080	-0.00058	.00035
Stddev	.161	.00013	.00266	.00008	.00093
%RSD	.64038	13.244	332.41	12.999	269.54

#1	25.086	.00088	-0.00108	-0.00063	.00101
#2	25.314	.00107	.00268	-0.00053	-0.00031

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-0.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3449.0	6135.6	81478.	7800.9
Stddev	.1	2.2	139.	2.5
%RSD	.00298	.03527	.17117	.03249

#1	3449.1	6134.1	81576.	7802.7
#2	3449.0	6137.2	81379.	7799.2

Sample Name: 480-47680-C-8-A Acquired: 10/18/2013 20:00:50 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.04574	.00211	.18879	.04257	-.00008	101.25	.00014	.00017
Stddev	.00015	.03088	.00149	.00021	.00021	.00004	.60	.00001	.00000
%RSD	97.951	67.497	70.321	.10898	.48339	42.816	.59365	9.1496	1.1145

#1	.00005	.02391	.00106	.18864	.04272	-.00006	100.83	.00013	.00017
#2	.00025	.06758	.00316	.18894	.04243	-.00011	101.68	.00015	.00017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00103	.00019	.01102	5.3641	7.4068	.02570	35.654	.41190	.37867
Stddev	.00013	.00009	.00223	.0209	.0166	.00132	.058	.00075	.00136
%RSD	12.544	49.100	20.272	.38994	.22384	5.1337	.16259	.18309	.35842

#1	.00094	.00013	.01260	5.3493	7.3951	.02476	35.695	.41243	.37962
#2	.00112	.00026	.00944	5.3789	7.4185	.02663	35.613	.41137	.37771

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00850	73.185	.00215	-.00256	F 48.34	-.00056	.00170	6.7221	-.00037
Stddev	.00007	.606	.00050	.00127	.05	.00025	.00317	.0844	.00024
%RSD	.84869	.82822	23.452	49.567	.0983	44.811	186.43	1.2563	64.105

#1	.00845	72.756	.00179	-.00346	48.37	-.00073	.00394	6.6624	-.00020
#2	.00855	73.614	.00250	-.00166	48.31	-.00038	-.00054	6.7818	-.00053

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	9.0092	.00047	.00283	-.00015	.00212
Stddev	.0200	.00012	.00184	.00021	.00045
%RSD	.22223	26.710	64.841	140.85	21.467

#1	9.0234	.00038	.00153	-.00030	.00244
#2	8.9951	.00055	.00413	-.00000	.00180

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4210.5	6871.3	93332.	8038.0
Stddev	3.9	2.5	172.	37.7
%RSD	.09193	.03579	.18444	.46926

#1	4213.2	6873.0	93210.	8064.7
#2	4207.7	6869.5	93454.	8011.3

Sample Name: 480-47680-C-9-A Acquired: 10/18/2013 20:03:22 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0036	.06526	.00617	.15648	.10992	.00000	83.537	.00018	-0.0017
Stddev	.00090	.04029	.00239	.00035	.00008	.00001	.086	.00001	.00002
%RSD	251.81	61.736	38.774	.22432	.07511	560.40	.10260	3.5071	13.757

#1	-0.00100	.09375	.00786	.15672	.10998	-0.00001	83.598	.00019	-0.0015
#2	.00028	.03677	.00448	.15623	.10986	.00001	83.477	.00018	-0.0018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00160	-0.0014	.94854	3.8682	5.3037	.01652	33.574	.05430	.04956
Stddev	.00026	.00014	.00115	.0217	.0130	.00016	.074	.00015	.00001
%RSD	16.187	99.809	.12144	.56040	.24540	.96367	.22049	.27629	.02470

#1	.00141	-0.00024	.94936	3.8835	5.3129	.01663	33.522	.05420	.04956
#2	.00178	-0.00004	.94773	3.8529	5.2945	.01641	33.627	.05441	.04955

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02465	57.480	.00070	-0.00251	F 30.14	-0.00109	-0.00147	8.1445	.00042
Stddev	.00008	.073	.00006	.00049	.11	.00315	.00066	.0171	.00067
%RSD	.31532	.12777	8.5681	19.599	.3520	290.00	44.689	.21056	160.14

#1	.02460	57.532	.00075	-0.00216	30.07	.00114	-0.00101	8.1566	-0.00006
#2	.02471	57.428	.00066	-0.00286	30.22	-0.00331	-0.00194	8.1324	.00089

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	7.4775	.00051	.00132	-0.00011	.00060
Stddev	.0061	.00022	.00280	.00026	.00013
%RSD	.08192	44.242	212.59	235.04	21.994

#1	7.4731	.00035	.00330	.00007	.00051
#2	7.4818	.00067	-0.00066	-0.00030	.00069

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4263.5	6937.6	93955.	7998.4
Stddev	1.5	4.3	115.	7.6
%RSD	.03544	.06220	.12203	.09481

#1	4262.5	6934.5	94036.	8003.8
#2	4264.6	6940.6	93874.	7993.1

Sample Name: CCV Acquired: 10/18/2013 20:05:50 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49057	24.894	.50190	.48640	.50762	.49994	24.331	.49568	.49141	.48602	.48568	24.766
Stddev	.00134	.006	.00484	.00050	.00082	.00029	.067	.00050	.00085	.00085	.00218	.074
%RSD	.27217	.02331	.96427	.10319	.16092	.05850	.27612	.10156	.17217	.17556	.44977	.30048

#1	.48963	24.898	.49848	.48676	.50704	.49974	24.379	.49603	.49201	.48542	.48414	24.818
#2	.49152	24.890	.50532	.48605	.50820	.50015	24.284	.49532	.49081	.48662	.48723	24.713

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.681	F 28.358	.51192	24.073	.50610	.45525	.48843	25.124	.49936	.49928	26.24	.52277
Stddev	.067	.048	.00107	.011	.00043	.00221	.00040	.016	.00044	.00160	.02	.00148
%RSD	.26049	.17082	.20897	.04497	.08406	.48602	.08265	.06216	.08769	.32042	.0821	.28240

#1	25.634	28.393	.51116	24.081	.50640	.45368	.48814	25.135	.49967	.50041	26.25	.52172
#2	25.729	28.324	.51268	24.065	.50580	.45681	.48871	25.113	.49905	.49814	26.22	.52381

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25.000										
Range		10.000%										

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49218	24.167	.48473	.50467	.48097	.50981	.47135	.47547
Stddev	.00219	.074	.00058	.00070	.00014	.00218	.00063	.00386
%RSD	.44409	.30740	.11936	.13959	.02965	.42762	.13328	.81168

#1	.49373	24.115	.48432	.50417	.48087	.50827	.47091	.47820
#2	.49064	24.220	.48514	.50517	.48107	.51135	.47180	.47274

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4415.4	7273.7	97593.	8056.5
Stddev	4.0	5.7	216.	26.3
%RSD	.09154	.07814	.22105	.32585
#1	4412.5	7269.7	97746.	8037.9
#2	4418.2	7277.7	97441.	8075.1

Sample Name: CCB Acquired: 10/18/2013 20:08:12 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00005	.03944	.00250	.00211	-0.00004	-0.00010	-0.00092	-0.00011	-0.00002	-0.00007	-0.00088	-0.00627
Stddev	.00065	.01319	.00191	.00011	.00000	.00001	.00107	.00012	.00002	.00012	.00007	.00034
%RSD	1422.1	33.452	76.286	5.2176	3.2270	15.080	115.81	106.11	125.36	178.14	8.1574	5.3791

#1	-0.00051	.03011	.00115	.00219	-0.00004	-0.00009	-0.00017	-0.00020	-0.00004	-0.00016	-0.00093	-0.00651
#2	.00042	.04877	.00386	.00203	-0.00004	-0.00011	-0.00167	-0.00003	-0.00000	.00002	-0.00083	-0.00603

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.08254	.00071	-0.00095	.00164	-0.00005	.00001	.00026	.02900	-0.00020	-0.00041	F .0282	.00185
Stddev	.02583	.00022	.00075	.00241	.00002	.00006	.00000	.00113	.00006	.00108	.0006	.00068
%RSD	31.300	31.222	78.429	146.73	32.295	631.70	.13990	3.9022	32.994	262.75	2.030	36.574

#1	-0.10081	.00087	-0.00148	-0.00006	-0.00004	-0.00003	.00026	.02980	-0.00015	.00035	.0286	.00137
#2	-0.06427	.00056	-0.00042	.00335	-0.00007	.00005	.00026	.02820	-0.00024	-0.00117	.0278	.00232

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00112	.00577	-0.00044	.00040	.00042	-0.00111	.00005	.00007
Stddev	.00295	.00323	.00008	.00002	.00043	.00002	.00040	.00030
%RSD	263.59	56.084	17.369	5.9368	100.46	2.0169	833.55	416.17

#1	-0.00097	.00348	-0.00049	.00038	.00072	-0.00112	-0.00024	.00028
#2	.00321	.00805	-0.00039	.00042	.00012	-0.00109	.00033	-0.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4733.2	7334.9	100150.	7976.0
Stddev	.9	6.1	106.	11.2
%RSD	.01931	.08260	.10556	.13987
#1	4733.8	7330.6	100220.	7968.1
#2	4732.5	7339.2	100070.	7983.9

Sample Name: CCVL Acquired: 10/18/2013 20:10:39 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00276	.23957	.01084	.02157	.00202	.00203	.49423	.00085	.00389	.00395	.00921	.04753
Stddev	.00012	.00796	.00051	.00024	.00000	.00002	.00557	.00002	.00001	.00020	.00012	.00260
%RSD	4.3095	3.3220	4.7106	1.1126	.07296	.88174	1.1274	1.9673	.18679	5.1783	1.2667	5.4682

#1	.00284	.23394	.01120	.02140	.00202	.00202	.49817	.00086	.00389	.00381	.00930	.04569
#2	.00268	.24520	.01048	.02174	.00202	.00204	.49029	.00083	.00390	.00410	.00913	.04936

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.38037	.45392	F .00129	.20389	.00349	.00320	.01034	.96692	.00976	.00492	F .0238	.02092
Stddev	.04347	.00267	.00000	.00460	.00002	.00065	.00013	.00891	.00048	.00151	.0017	.00140
%RSD	11.427	.58760	.27151	2.2550	.59770	20.176	1.2524	.92182	4.9387	30.680	7.251	6.6676

#1	.41111	.45580	.00129	.20064	.00351	.00366	.01043	.96061	.01010	.00386	.0226	.02191
#2	.34964	.45203	.00129	.20714	.00348	.00275	.01025	.97322	.00942	.00599	.0251	.01994

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.03000								.2000	
Range			-50.000%								-50.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01528	.50035	.00923	.00533	.00501	.02107	.00470	.00978
Stddev	.00215	.00084	.00031	.00000	.00015	.00182	.00011	.00015
%RSD	14.046	.16793	3.3710	.06490	2.9537	8.6178	2.2646	1.5292

#1	.01377	.49976	.00901	.00533	.00511	.01979	.00463	.00989
#2	.01680	.50094	.00944	.00533	.00490	.02236	.00478	.00967

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4729.1	7355.9	100040.	7989.9
Stddev	6.4	1.3	514.	37.3
%RSD	.13429	.01734	.51378	.46651
#1	4724.6	7355.0	99679.	7963.5
#2	4733.6	7356.9	100410.	8016.2

Sample Name: 480-47680-C-10-A Acquired: 10/18/2013 20:13:04 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0047	.36881	.00291	.36515	.11311	-0.0007	54.463	.00006	.00047
Stddev	.00008	.00411	.00049	.00071	.00011	.00001	.101	.00018	.00001
%RSD	16.448	1.1145	16.767	.19558	.09518	9.8339	.18472	314.94	1.1823

#1	-0.0041	.37172	.00257	.36565	.11303	-0.0007	54.534	-0.0007	.00047
#2	-0.0052	.36590	.00326	.36464	.11319	-0.0008	54.392	.00019	.00047

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00094	.00011	1.2191	3.6242	5.0041	.01061	23.180	.10508	.09649
Stddev	.00023	.00032	.0068	.0003	.0073	.00065	.035	.00008	.00116
%RSD	24.810	286.02	.55778	.00776	.14549	6.1682	.15013	.07414	1.2073

#1	.00077	.00034	1.2239	3.6240	4.9990	.01107	23.204	.10514	.09566
#2	.00110	-0.0012	1.2143	3.6244	5.0093	.01014	23.155	.10503	.09731

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00322	95.059	.00068	-0.0123	.5434	-0.0069	.00053	6.7568	.00041
Stddev	.00012	.560	.00009	.00243	.0004	.00004	.00350	.0055	.00022
%RSD	3.6766	.58872	13.856	198.19	.0741	5.5887	664.65	.08106	55.105

#1	.00314	94.664	.00061	-0.0294	.5431	-0.0067	-0.00195	6.7529	.00025
#2	.00331	95.455	.00074	.00049	.5437	-0.0072	.00300	6.7607	.00056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	5.0114	.00477	.00146	.00037	.00277
Stddev	.0297	.00033	.00030	.00003	.00002
%RSD	.59323	6.8627	20.423	8.8175	.89572

#1	4.9904	.00500	.00125	.00040	.00279
#2	5.0324	.00454	.00167	.00035	.00275

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4267.8	6985.9	94182.	8024.8
Stddev	.1	4.6	28.	.9
%RSD	.00258	.06586	.03009	.01069

#1	4267.7	6989.1	94203.	8025.4
#2	4267.9	6982.6	94162.	8024.2

Sample Name: 480-47680-C-11-A Acquired: 10/18/2013 20:15:25 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.09959	.00929	.05235	.00576	-.00012	484.14	.00040	.00105
Stddev	.00003	.00969	.00343	.00086	.00001	.00002	3.89	.00007	.00004
%RSD	11.145	9.7256	36.921	1.6409	.12140	15.001	.80451	18.910	3.9980

#1	.00022	.10644	.00686	.05296	.00575	-.00013	486.90	.00045	.00102
#2	.00026	.09274	.01171	.05174	.00576	-.00010	481.39	.00034	.00108

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00078	.00027	7.8216	6.3031	9.8060	.07510	221.94	.95511	.93380
Stddev	.00032	.00000	.0006	.0540	.0281	.00026	.56	.00196	.00284
%RSD	40.977	.35390	.00759	.85732	.28690	.34149	.25026	.20474	.30368

#1	.00056	.00027	7.8220	6.2649	9.7861	.07528	222.33	.95649	.93180
#2	.00101	.00027	7.8212	6.3413	9.8259	.07492	221.54	.95372	.93581

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00883	86.425	.00271	.00045	F 705.5	-.00051	.00368	5.8899	-.00090
Stddev	.00031	.010	.00013	.00025	.5	.00004	.00231	.0092	.00025
%RSD	3.4699	.01100	4.6428	55.784	.0777	8.2959	62.661	.15568	27.676

#1	.00861	86.419	.00280	.00063	705.9	-.00048	.00205	5.8834	-.00073
#2	.00904	86.432	.00263	.00027	705.1	-.00054	.00531	5.8964	-.00108

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 16.377	.00185	.00204	-.00036	.00071
Stddev	.004	.00001	.00029	.00005	.00011
%RSD	.02749	.69321	14.250	15.069	16.020

#1	16.374	.00184	.00224	-.00032	.00079
#2	16.380	.00186	.00183	-.00040	.00063

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3758.3	6324.7	86322.	7841.6
Stddev	5.4	2.1	246.	35.1
%RSD	.14415	.03391	.28545	.44700

#1	3762.2	6323.2	86147.	7816.8
#2	3754.5	6326.2	86496.	7866.4

Sample Name: 480-47680-C-12-A Acquired: 10/18/2013 20:18:03 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0077	.03911	.01057	.06388	.02910	-0.0014	176.40	.00020	.00129
Stddev	.00015	.00239	.00082	.00006	.00011	.00001	.12	.00008	.00006
%RSD	19.560	6.1007	7.7247	.08709	.38926	9.3909	.06663	38.251	4.3043

#1	-0.0087	.04080	.01115	.06384	.02918	-0.0013	176.32	.00025	.00125
#2	-0.0066	.03743	.00999	.06392	.02902	-0.0015	176.49	.00014	.00133

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00171	.00014	5.7126	4.3667	6.1407	.02532	62.792	.34744	.32378
Stddev	.00002	.00012	.0101	.0300	.0216	.00036	.070	.00067	.00049
%RSD	1.2398	80.080	.17679	.68784	.35098	1.4076	.11191	.19269	.15181

#1	.00169	.00006	5.7198	4.3879	6.1559	.02557	62.742	.34697	.32343
#2	.00172	.00023	5.7055	4.3454	6.1255	.02507	62.842	.34792	.32413

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01677	70.738	.00378	-0.00259	F 175.7	.00007	.00271	8.7217	.00076
Stddev	.00009	.270	.00038	.00239	.2	.00081	.00290	.0165	.00034
%RSD	.51415	.38199	9.9652	92.577	.0920	1227.3	107.05	.18908	44.422

#1	.01683	70.929	.00351	-0.0089	175.6	-0.0051	.00066	8.7100	.00100
#2	.01671	70.547	.00405	-0.0428	175.8	.00064	.00476	8.7334	.00052

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	5.5397	.00110	.00117	-0.0029	.00356
Stddev	.0004	.00017	.00002	.00002	.00004
%RSD	.00779	15.753	1.4456	5.3333	1.2463

#1	5.5394	.00098	.00116	-0.0028	.00359
#2	5.5400	.00123	.00118	-0.0030	.00353

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4088.4	6733.3	91613.	7985.4
Stddev	1.1	4.8	111.	.5
%RSD	.02726	.07153	.12083	.00590

#1	4089.1	6736.7	91534.	7985.8
#2	4087.6	6729.9	91691.	7985.1

Sample Name: MB 480-144276/11-B Acquired: 10/18/2013 20:20:30 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00059	.06105	.00296	.00346	.00008	-0.00005	.03184	-0.00008	-0.00006
Stddev	.00069	.00075	.00068	.00031	.00001	.00006	.00375	.00003	.00014
%RSD	116.18	1.2299	22.828	8.8707	15.828	108.47	11.775	33.950	231.67

#1	-0.00011	.06052	.00248	.00324	.00007	-0.00010	.02919	-0.00009	.00004
#2	-0.00108	.06158	.00344	.00368	.00009	-0.00001	.03449	-0.00006	-0.00016

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	-0.00031	.00323	-0.05379	.00106	-0.00044	.00399	.00000	-0.00034
Stddev	.00027	.00026	.00064	.06941	.00055	.00006	.00373	.00003	.00000
%RSD	557.09	84.820	19.727	129.05	51.867	13.133	93.537	971.14	.79614

#1	-0.00014	-0.00050	.00278	-0.10286	.00067	-0.00040	.00663	-0.00002	-0.00034
#2	.00024	-0.00012	.00368	-0.00471	.00144	-0.00049	.00135	.00002	-0.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00022	.03559	-0.00023	.00054	.0448	.00052	-0.00140	.00138	-0.00005
Stddev	.00002	.00350	.00048	.00004	.0046	.00094	.00230	.00734	.00016
%RSD	7.7261	9.8287	209.13	7.5382	10.29	180.82	164.10	531.24	310.11

#1	.00021	.03806	-0.00057	.00057	.0480	-0.00014	.00023	.00658	-0.00016
#2	.00023	.03312	.00011	.00051	.0415	.00118	-0.00303	-0.00381	.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00027	.00014	-0.00030	-0.00010	.00085
Stddev	.00005	.00016	.00016	.00005	.00043
%RSD	20.449	114.70	53.162	44.007	49.913

#1	.00030	.00026	-0.00019	-0.00007	.00055
#2	.00023	.00003	-0.00041	-0.00014	.00115

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4761.7	7377.3	101020.	8046.1
Stddev	7.9	7.6	175.	9.5
%RSD	.16500	.10332	.17344	.11752

#1	4767.3	7382.7	101150.	8052.8
#2	4756.2	7371.9	100900.	8039.4

Sample Name: LCS 480-144276/12-B Acquired: 10/18/2013 20:22:54 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04954	10.329	.20670	.20882	.20561	.20745	9.9259	.20532	.20180
Stddev	.00012	.012	.00135	.00049	.00094	.00012	.0009	.00023	.00004
%RSD	.24039	.11190	.65175	.23420	.45717	.05947	.00895	.11240	.01931

#1	.04962	10.321	.20765	.20917	.20627	.20754	9.9265	.20516	.20183
#2	.04945	10.337	.20575	.20848	.20494	.20737	9.9253	.20548	.20177

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20119	.20080	10.328	10.151	10.990	.20586	10.307	.20676	.18203
Stddev	.00082	.00103	.018	.094	.048	.00020	.008	.00029	.00046
%RSD	.40999	.51120	.17245	.92269	.43618	.09735	.07539	.14083	.25133

#1	.20177	.20152	10.315	10.217	11.024	.20572	10.312	.20697	.18171
#2	.20061	.20007	10.340	10.085	10.956	.20600	10.301	.20656	.18235

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20689	10.100	.20205	.20296	10.63	.21167	.20418	9.9446	.19197
Stddev	.00030	.009	.00050	.00186	.01	.00035	.00380	.0349	.00013
%RSD	.14512	.09118	.24578	.91687	.0485	.16529	1.8626	.35093	.06579

#1	.20667	10.093	.20240	.20428	10.63	.21192	.20149	9.9199	.19188
#2	.20710	10.106	.20170	.20165	10.64	.21142	.20687	9.9692	.19206

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20828	.19241	.20886	.19785	.19407
Stddev	.00002	.00042	.00126	.00091	.00096
%RSD	.00864	.21764	.60513	.45916	.49403

#1	.20827	.19212	.20975	.19849	.19339
#2	.20830	.19271	.20796	.19720	.19475

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4549.5	7274.9	98673.	8043.2
Stddev	2.2	1.7	32.	3.6
%RSD	.04736	.02400	.03196	.04505

#1	4551.0	7276.1	98695.	8045.8
#2	4548.0	7273.6	98651.	8040.7

Sample Name: 480-47759-D-1-A Acquired: 10/18/2013 20:25:14 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0010	.06114	.00457	.04088	.12792	-0.0009	90.825	.00003	-0.0007
Stddev	.00011	.00874	.00074	.00010	.00074	.00009	.598	.00018	.00002
%RSD	107.89	14.301	16.313	.24283	.58077	99.575	.65847	579.17	27.903

#1	-0.00002	.05496	.00404	.04081	.12845	-0.00016	91.248	.00016	-0.00006
#2	-0.00018	.06733	.00509	.04095	.12740	-0.00003	90.403	-0.00010	-0.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00044	-0.0002	1.6229	1.6793	2.4231	.00818	58.573	.06989	.06365
Stddev	.00012	.00020	.0003	.0349	.0166	.00016	.127	.00017	.00042
%RSD	27.572	1246.8	.01931	2.0784	.68348	1.9109	.21606	.23977	.65674

#1	.00052	.00013	1.6231	1.7040	2.4348	.00807	58.662	.07001	.06395
#2	.00035	-0.00016	1.6226	1.6547	2.4114	.00829	58.483	.06977	.06336

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00373	41.983	.00397	-0.00306	F 25.02	.00013	-0.00021	8.8044	.00009
Stddev	.00004	.108	.00042	.00015	.01	.00013	.00330	.0376	.00012
%RSD	1.1118	.25759	10.658	5.0342	.0312	103.94	1608.5	.42704	128.18

#1	.00376	42.059	.00427	-0.00295	25.03	.00003	.00213	8.8310	.00017
#2	.00370	41.906	.00367	-0.00317	25.02	.00023	-0.00254	8.7779	.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.63465	.00098	.00040	-0.00015	.00225
Stddev	.00122	.00011	.00197	.00030	.00042
%RSD	.19291	11.365	494.87	200.72	18.804

#1	.63552	.00105	-0.00099	-0.00036	.00195
#2	.63379	.00090	.00179	.00006	.00254

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4234.8	6913.2	9394.4	8013.3
Stddev	.7	2.9	336.	35.0
%RSD	.01657	.04185	.35716	.43662

#1	4235.3	6911.1	93707.	7988.6
#2	4234.3	6915.2	94181.	8038.1

Sample Name: 480-47759-D-2-A Acquired: 10/18/2013 20:27:35 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00030	.07031	.00164	.51089	.05954	.00003	31.516	-0.00003	-0.00004
Stddev	.00015	.00548	.00093	.00067	.00036	.00000	.035	.00008	.00022
%RSD	49.268	7.7974	56.583	.13071	.61170	.24986	.10988	298.37	565.37

#1	-0.00019	.07419	.00098	.51136	.05980	.00003	31.491	-0.00008	.00012
#2	-0.00040	.06644	.00230	.51041	.05928	.00003	31.540	.00003	-0.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00043	-0.00039	.55598	1.8074	2.5180	.00827	20.187	.02113	.01868
Stddev	.00029	.00002	.00495	.0144	.0124	.00068	.038	.00003	.00035
%RSD	66.319	4.3345	.89118	.79807	.49456	8.1716	.18855	.15386	1.8659

#1	.00063	-0.00038	.55948	1.8176	2.5092	.00875	20.214	.02116	.01843
#2	.00023	-0.00040	.55247	1.7972	2.5268	.00780	20.160	.02111	.01893

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06402	66.418	-0.00015	-0.00283	F 40.76	-0.00217	.00119	8.9881	-0.00030
Stddev	.00008	.135	.00022	.00073	.09	.00009	.00020	.0010	.00043
%RSD	.12909	.20313	148.96	26.004	.2141	4.0034	16.408	.01128	142.34

#1	.06396	66.513	-0.00030	-0.00231	40.82	-0.00211	.00105	8.9889	.00000
#2	.06407	66.323	.00001	-0.00335	40.70	-0.00223	.00133	8.9874	-0.00060

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49928	.00010	.00056	.00001	.00060
Stddev	.00038	.00005	.00022	.00012	.00018
%RSD	.07653	51.163	38.468	2064.5	29.409

#1	.49955	.00007	.00071	-0.00008	.00073
#2	.49901	.00014	.00041	.00009	.00048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4387.1	7070.5	95504.	8060.9
Stddev	3.9	3.6	344.	48.3
%RSD	.08958	.05056	.35978	.59877

#1	4384.3	7068.0	95261.	8095.0
#2	4389.9	7073.0	95747.	8026.8

Sample Name: 480-47759-D-3-A Acquired: 10/18/2013 20:29:55 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00047	.05804	.00253	.49799	.05710	-0.00008	30.854	.00006	-0.00000
Stddev	.00034	.00450	.00039	.00043	.00008	.00011	.211	.00008	.00007
%RSD	72.151	7.7532	15.283	.08714	.13487	138.90	.68493	120.71	1788.8

#1	-0.00023	.06122	.00226	.49769	.05704	-0.00000	30.705	.00001	-0.00006
#2	-0.00071	.05485	.00280	.49830	.05715	-0.00015	31.004	.00012	.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	.00014	.49879	1.8486	2.5445	.00739	19.618	.01991	.01777
Stddev	.00025	.00012	.00062	.0037	.0111	.00050	.016	.00005	.00009
%RSD	97.251	87.179	.12343	.20007	.43733	6.7265	.07980	.24440	.48456

#1	.00044	.00023	.49836	1.8460	2.5366	.00704	19.607	.01988	.01783
#2	.00008	.00005	.49923	1.8512	2.5524	.00774	19.629	.01994	.01771

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06245	66.026	.00063	-0.00268	F 39.50	-0.00126	.00217	8.8088	-0.00018
Stddev	.00016	.149	.00031	.00064	.05	.00142	.00162	.0888	.00037
%RSD	.25935	.22616	48.617	23.864	.1356	113.40	74.530	1.0080	208.25

#1	.06233	65.921	.00041	-0.00313	39.47	-0.00226	.00332	8.7460	-0.00044
#2	.06256	66.132	.00085	-0.00223	39.54	-0.00025	.00103	8.8716	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48073	.00031	.00505	.00004	.00248
Stddev	.00275	.00018	.00105	.00009	.00004
%RSD	.57296	57.779	20.876	234.44	1.5797

#1	.48268	.00019	.00431	-0.00003	.00250
#2	.47878	.00044	.00580	.00010	.00245

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4393.4	7054.4	95182.	7989.2
Stddev	.5	4.7	22.	49.0
%RSD	.01241	.06646	.02275	.61344

#1	4393.0	7051.1	95166.	8023.8
#2	4393.7	7057.7	95197.	7954.5

Sample Name: 480-47759-D-4-A Acquired: 10/18/2013 20:32:15 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00045	.04124	.00567	.10180	.17559	-0.00009	108.36	.00027	-0.00012
Stddev	.00019	.02033	.00094	.00039	.00083	.00005	.35	.00003	.00015
%RSD	42.693	49.298	16.489	.38793	.47151	52.270	.32575	10.538	118.93

#1	-0.00058	.02686	.00501	.10152	.17500	-0.00006	108.11	.00029	-0.00023
#2	-0.00031	.05562	.00633	.10208	.17617	-0.00012	108.61	.00025	-0.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00057	.00005	3.3150	3.3204	5.0270	.00768	55.537	.03995	.03748
Stddev	.00020	.00007	.0209	.0578	.0606	.00142	.155	.00007	.00007
%RSD	34.190	124.01	.63033	1.7412	1.2048	18.489	.27867	.17909	.18123

#1	.00043	.00001	3.3298	3.2795	4.9841	.00868	55.427	.03990	.03753
#2	.00071	.00010	3.3003	3.3613	5.0698	.00668	55.646	.04000	.03743

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00256	143.52	.00041	-0.00310	F 16.59	-0.00123	.00083	8.7845	.00012
Stddev	.00049	.13	.00035	.00127	.03	.00232	.00082	.0479	.00010
%RSD	19.057	.09213	84.046	41.107	.2077	188.76	98.347	.54501	84.630

#1	.00221	143.42	.00017	-0.00220	16.57	.00041	.00141	8.7506	.00019
#2	.00290	143.61	.00066	-0.00399	16.62	-0.00287	.00025	8.8183	.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.53625	.00070	.00206	-0.00021	.00015
Stddev	.00069	.00016	.00074	.00020	.00006
%RSD	.12866	22.541	36.060	93.446	41.650

#1	.53673	.00081	.00153	-0.00035	.00011
#2	.53576	.00059	.00258	-0.00007	.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4098.4	6783.0	91722.	7988.0
Stddev	.2	5.2	239.	38.9
%RSD	.00393	.07630	.26073	.48649

#1	4098.5	6786.6	91891.	8015.5
#2	4098.3	6779.3	91553.	7960.5

Sample Name: CCV Acquired: 10/18/2013 20:34:37 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48910	24.780	.50354	.48580	.50526	.49883	24.185	.49819	.49197	.48251	.48423	24.701
Stddev	.00170	.004	.00273	.00088	.00086	.00104	.020	.00014	.00181	.00050	.00145	.072
%RSD	.34795	.01573	.54126	.18186	.17027	.20938	.08425	.02747	.36867	.10363	.29927	.29031

#1	.49030	24.778	.50161	.48642	.50587	.49957	24.171	.49809	.49069	.48215	.48525	24.752
#2	.48789	24.783	.50547	.48517	.50465	.49810	24.200	.49828	.49325	.48286	.48320	24.651

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.581	F 28.042	.50793	23.989	.50345	.45621	.49078	25.038	.49868	.50135	26.19	.52012
Stddev	.130	.323	.00080	.040	.00076	.00026	.00028	.052	.00179	.00169	.03	.00209
%RSD	.50816	1.1522	.15662	.16693	.15062	.05704	.05665	.20805	.35841	.33698	.1071	.40253

#1	25.672	28.270	.50849	23.961	.50292	.45602	.49058	25.075	.49742	.50015	26.21	.52160
#2	25.489	27.813	.50737	24.017	.50399	.45639	.49097	25.002	.49995	.50254	26.17	.51863

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25.000										
Range		10.000%										

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49287	24.055	.48726	.50581	.48504	.50739	.47164	.47573
Stddev	.00255	.071	.00098	.00178	.00104	.00104	.00007	.00162
%RSD	.51735	.29444	.20015	.35218	.21344	.20518	.01520	.33987

#1	.49107	24.005	.48657	.50707	.48431	.50813	.47159	.47458
#2	.49468	24.105	.48795	.50455	.48577	.50665	.47169	.47687

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4399.8	7232.6	97698.	8065.8
Stddev	5.3	2.4	178.	6.8
%RSD	.11976	.03364	.18170	.08418
#1	4403.6	7234.3	97824.	8061.0
#2	4396.1	7230.9	97573.	8070.6

Sample Name: CCB Acquired: 10/18/2013 20:36:58 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	.04454	.00164	.00106	-.00004	-.00004	-.00538	-.00007	-.00007	-.00013	-.00076	-.00872
Stddev	.00015	.00291	.00011	.00029	.00002	.00006	.00449	.00001	.00011	.00029	.00002	.00210
%RSD	261.07	6.5344	6.8395	27.384	35.023	159.30	83.443	14.739	166.01	226.16	2.5879	24.127

#1	.00016	.04248	.00172	.00126	-.00005	.00000	-.00221	-.00008	.00001	.00008	-.00074	-.01021
#2	-.00005	.04660	.00156	.00085	-.00003	-.00008	-.00856	-.00007	-.00015	-.00034	-.00077	-.00723

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.06391	.00039	-.00045	.00295	-.00011	.00041	.00045	.01675	.00017	-.00076	F .0223	.00035
Stddev	.02043	.00008	.00016	.00012	.00005	.00023	.00011	.00952	.00009	.00019	.0021	.00089
%RSD	31.960	20.374	36.386	4.1608	49.676	56.209	23.812	56.824	52.948	24.592	9.223	254.28

#1	-.07835	.00044	-.00034	.00304	-.00014	.00058	.00052	.01002	.00010	-.00089	.0238	.00098
#2	-.04947	.00033	-.00057	.00287	-.00007	.00025	.00037	.02349	.00023	-.00062	.0209	-.00028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00040	-.02126	-.00027	.00020	-.00003	.00086	-.00009	.00041
Stddev	.00167	.02242	.00006	.00003	.00017	.00005	.00008	.00024
%RSD	412.73	105.46	22.634	15.981	540.61	5.6944	92.916	57.774

#1	-.00158	-.03711	-.00023	.00022	.00009	.00089	-.00015	.00024
#2	.00078	-.00541	-.00032	.00018	-.00015	.00082	-.00003	.00058

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4723.4	7289.6	99513.	7985.9
Stddev	5.7	3.7	186.	47.8
%RSD	.12051	.05126	.18673	.59808
#1	4719.3	7287.0	99645.	7952.1
#2	4727.4	7292.3	99382.	8019.6

Sample Name: CCVL Acquired: 10/18/2013 20:39:25 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00265	.22759	.01142	.02031	.00202	.00207	.49427	.00085	.00386	.00390	.00902
Stddev	.00054	.00972	.00022	.00016	.00000	.00002	.00904	.00004	.00002	.00015	.00013
%RSD	20.323	4.2725	1.9333	.76333	.11056	1.1419	1.8283	4.5159	.38910	3.9653	1.4054

#1	.00227	.23446	.01127	.02042	.00202	.00209	.50066	.00087	.00387	.00401	.00893
#2	.00303	.22071	.01158	.02020	.00202	.00206	.48788	.00082	.00385	.00379	.00911

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	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04839	.36064	.45160	F .00221	.19776	F .00460	W .00413	.01047	.95645	.00988	.00456
Stddev	.00223	.02153	.00065	.00162	.00077	.00004	.00009	.00017	.00220	.00011	.00002
%RSD	4.6002	5.9702	.14341	73.170	.39108	.97359	2.1309	1.6367	.22958	1.0644	.49467

#1	.04682	.34542	.45114	.00107	.19830	.00463	.00407	.01059	.95490	.00981	.00457
#2	.04997	.37587	.45205	.00336	.19721	.00457	.00419	.01035	.95800	.00996	.00454

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.03000		.00300	.00300				
Range				-50.000%		50.000%	30.000%				

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	F .0166	.02161	.01698	.47837	.00919	.00525	.00456	.02167	.00448	.01007	
Stddev	.0021	.00178	.00132	.00316	.00025	.00003	.00021	.00031	.00009	.00010	
%RSD	12.43	8.2473	7.7951	.65987	2.7356	.54463	4.5406	1.4368	2.0665	.97379	

#1	.0181	.02287	.01791	.47614	.00901	.00527	.00471	.02189	.00455	.01000	
#2	.0152	.02035	.01604	.48060	.00937	.00523	.00441	.02145	.00441	.01014	

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value	.2000										
Range	-50.00%										

Int. Std.	In2306	Y_2243	Y_3600	Y_3774							
Units	Cts/S	Cts/S	Cts/S	Cts/S							
Avg	4739.2	7346.8	100070.	8004.3							
Stddev	4.1	2.3	380.	20.0							
%RSD	.08609	.03192	.37988	.24983							

#1	4742.1	7345.1	100340.	8018.4							
#2	4736.3	7348.4	99806.	7990.1							

Sample Name: 480-47759-D-4-A SD@5 Acquired: 10/18/2013 20:41:50 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0039	.04238	.00285	.02021	.03644	-0.0012	22.208	-0.0009	-0.0010
Stddev	.00050	.00594	.00183	.00007	.00009	.00002	.180	.00006	.00013
%RSD	128.28	14.006	64.073	.35839	.24809	17.697	.81231	68.007	129.35

#1	-0.00074	.04658	.00414	.02016	.03651	-0.0013	22.336	-0.0005	-0.0019
#2	-0.0004	.03818	.00156	.02026	.03638	-0.0010	22.081	-0.0013	-0.0001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00051	-0.0062	.67464	.52404	.73306	.00079	11.177	.00801	.00729
Stddev	.00048	.00006	.00053	.06756	.00450	.00176	.062	.00013	.00023
%RSD	94.198	9.7083	.07827	12.893	.61347	222.04	.55774	1.6276	3.1652

#1	.00017	-0.00058	.67427	.57182	.73623	-0.0045	11.221	.00810	.00745
#2	.00085	-0.00067	.67501	.47627	.72988	.00204	11.133	.00792	.00712

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00054	26.556	-0.0011	-0.0045	3.231	-0.00026	.00061	1.7776	-0.0018
Stddev	.00000	.242	.00026	.00031	.016	.00051	.00076	.0368	.00013
%RSD	.34086	.91017	246.91	68.617	.4808	194.60	123.44	2.0722	71.586

#1	.00054	26.727	-0.00029	-0.00067	3.242	.00010	.00115	1.8036	-0.00026
#2	.00054	26.385	.00008	-0.00023	3.220	-0.00062	.00008	1.7515	-0.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.10944	.00010	.00051	.00002	.00012
Stddev	.00053	.00036	.00052	.00000	.00021
%RSD	.48609	363.08	102.39	10.738	178.86

#1	.10906	.00036	.00088	.00002	-0.00003
#2	.10982	-0.00016	.00014	.00002	.00026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4513.8	7168.3	97323.	8089.5
Stddev	12.2	21.2	533.	17.5
%RSD	.27114	.29532	.54730	.21604
#1	4522.5	7183.3	96947.	8077.1
#2	4505.2	7153.3	97700.	8101.8

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05539	6.1781	.22453	.22343	.29192	.21179	117.70	.21617	.20993
Stddev	.00081	.0006	.00106	.00116	.00036	.00016	.21	.00022	.00060
%RSD	1.4619	.01039	.47099	.51888	.12432	.07364	.17763	.10193	.28675

#1	.05597	6.1777	.22378	.22425	.29217	.21168	117.55	.21632	.21036
#2	.05482	6.1786	.22528	.22261	.29166	.21190	117.85	.21601	.20951

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20438	.20930	13.713	10.145	14.564	.14244	64.931	.24589	.23079
Stddev	.00210	.00045	.040	.095	.057	.00230	.155	.00060	.00221
%RSD	1.0290	.21532	.29463	.93856	.39196	1.6165	.23887	.24342	.95749

#1	.20587	.20962	13.685	10.212	14.605	.14407	65.041	.24631	.22923
#2	.20290	.20898	13.742	10.078	14.524	.14081	64.822	.24547	.23235

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21395	149.38	.20919	.20498	F 16.15	.21864	.21779	18.726	.20500
Stddev	.00095	.20	.00117	.00151	.04	.00051	.00529	.010	.00098
%RSD	.44332	.13100	.55712	.73887	.2186	.23340	2.4304	.05305	.47938

#1	.21462	149.25	.20837	.20391	16.13	.21900	.22154	18.733	.20569
#2	.21328	149.52	.21002	.20605	16.18	.21828	.21405	18.719	.20430

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.65136	.19889	.20872	.20476	.19458
Stddev	.00020	.00010	.00009	.00088	.00026
%RSD	.03123	.05228	.04316	.42852	.13482

#1	.65151	.19896	.20865	.20538	.19439
#2	.65122	.19882	.20878	.20414	.19476

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4054.6	6821.4	91895.	7944.3
Stddev	7.4	.4	132.	22.2
%RSD	.18326	.00632	.14356	.27903

#1	4059.8	6821.7	91802.	7960.0
#2	4049.3	6821.1	91988.	7928.6

Sample Name: 480-47759-D-4-B MS Acquired: 10/18/2013 20:46:32 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04984	10.102	.21161	.30362	.36435	.20322	116.28	.20793	.20224
Stddev	.00034	.003	.00340	.00028	.00074	.00026	.46	.00012	.00024
%RSD	.68968	.02656	1.6045	.09262	.20419	.12909	.39867	.05684	.11761

#1	.04959	10.100	.21401	.30382	.36383	.20304	116.61	.20784	.20208
#2	.05008	10.104	.20921	.30342	.36488	.20341	115.95	.20801	.20241

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19147	.19675	13.280	14.470	19.807	.22679	64.144	.23642	.22293
Stddev	.00056	.00061	.025	.128	.155	.00024	.017	.00015	.00029
%RSD	.29356	.30842	.18930	.88499	.78216	.10676	.02719	.06393	.12960

#1	.19187	.19632	13.298	14.561	19.917	.22697	64.132	.23653	.22272
#2	.19107	.19718	13.263	14.380	19.698	.22662	64.156	.23631	.22313

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20499	154.11	.20239	.20015	F 27.28	.21114	.21147	18.378	.19604
Stddev	.00022	.87	.00049	.00113	.01	.00283	.00243	.043	.00105
%RSD	.10814	.56384	.24051	.56696	.0509	1.3426	1.1505	.23618	.53332

#1	.20515	154.73	.20205	.19935	27.27	.20913	.21319	18.409	.19530
#2	.20484	153.50	.20274	.20096	27.29	.21314	.20975	18.348	.19678

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.74129	.19055	.20364	.19135	.18419
Stddev	.00066	.00047	.00063	.00062	.00135
%RSD	.08950	.24787	.30838	.32267	.73527

#1	.74176	.19022	.20320	.19091	.18515
#2	.74082	.19089	.20409	.19179	.18323

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4035.2	6830.0	92870.	7986.9
Stddev	8.8	5.9	6.	20.8
%RSD	.21731	.08703	.00597	.26046

#1	4041.4	6834.2	92866.	7972.2
#2	4029.0	6825.8	92874.	8001.6

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05006	10.297	.21810	.30466	.37001	.20532	117.63	.20883	.20336
Stddev	.00034	.034	.00009	.00050	.00034	.00038	.35	.00006	.00001
%RSD	.68426	.33277	.04032	.16321	.09090	.18504	.29471	.02704	.00461

#1	.05030	10.321	.21804	.30501	.37024	.20559	117.38	.20887	.20335
#2	.04982	10.272	.21816	.30431	.36977	.20505	117.87	.20879	.20337

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19706	.20248	13.403	14.725	20.526	.23061	64.560	.23892	.22371
Stddev	.00095	.00024	.004	.109	.012	.00071	.093	.00010	.00012
%RSD	.48241	.11696	.02795	.73706	.05650	.30601	.14481	.04358	.05496

#1	.19773	.20231	13.406	14.802	20.534	.23111	64.493	.23885	.22379
#2	.19639	.20265	13.400	14.649	20.518	.23012	64.626	.23900	.22362

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20601	153.62	.20295	.20182	F 27.08	.21284	.21270	18.669	.19787
Stddev	.00019	.03	.00081	.00096	.06	.00234	.00785	.042	.00023
%RSD	.09402	.01896	.39875	.47606	.2254	1.0985	3.6920	.22607	.11583

#1	.20615	153.60	.20238	.20114	27.03	.21449	.20715	18.699	.19803
#2	.20587	153.64	.20352	.20250	27.12	.21119	.21826	18.640	.19771

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.73531	.19239	.20665	.19782	.18994
Stddev	.00065	.00112	.00010	.00040	.00049
%RSD	.08860	.58203	.04747	.20105	.25933

#1	.73577	.19160	.20658	.19810	.18959
#2	.73485	.19318	.20672	.19753	.19029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4040.2	6840.1	91743.	7882.5
Stddev	3.2	1.4	172.	38.1
%RSD	.08043	.01998	.18779	.48311

#1	4042.5	6839.2	91865.	7909.4
#2	4037.9	6841.1	91621.	7855.5

Sample Name: 480-47765-A-1-A Acquired: 10/18/2013 20:51:12 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00022	.10929	.00537	.11016	.01894	-.00007	13.650	.00003	-.00005
Stddev	.00031	.02588	.00394	.00033	.00006	.00004	.056	.00008	.00001
%RSD	138.91	23.678	73.302	.30018	.32802	52.017	.41305	274.44	10.775

#1	.00044	.12759	.00259	.10993	.01889	-.00010	13.689	.00008	-.00006
#2	.00000	.09099	.00816	.11039	.01898	-.00005	13.610	-.00003	-.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	-.00004	-.00027	3.5467	4.7296	.01904	45.976	.00077	.00069
Stddev	.00052	.00014	.00103	.0042	.0046	.00082	.145	.00001	.00014
%RSD	388.36	367.76	376.12	.11815	.09624	4.3015	.31592	.96266	20.608

#1	-.00023	-.00014	-.00100	3.5497	4.7328	.01846	45.873	.00077	.00059
#2	.00050	.00006	.00045	3.5437	4.7264	.01962	46.078	.00076	.00080

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00458	65.450	-.00013	-.00121	F 66.48	-.00065	.00037	1.9303	.00004
Stddev	.00013	.303	.00002	.00109	.01	.00051	.00155	.0236	.00030
%RSD	2.8750	.46235	15.446	90.019	.0119	77.804	416.79	1.2245	843.34

#1	.00448	65.236	-.00012	-.00044	66.48	-.00101	.00147	1.9470	.00025
#2	.00467	65.664	-.00015	-.00197	66.47	-.00029	-.00072	1.9136	-.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.23354	.00024	.00079	-.00012	.01508
Stddev	.00018	.00001	.00006	.00011	.00014
%RSD	.07919	2.1587	7.7304	93.497	.91547

#1	.23367	.00024	.00084	-.00004	.01498
#2	.23341	.00023	.00075	-.00020	.01518

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4388.6	7044.1	95723.	8090.2
Stddev	3.6	6.0	333.	42.2
%RSD	.08272	.08522	.34757	.52141

#1	4386.0	7039.8	95959.	8060.4
#2	4391.1	7048.3	95488.	8120.0

Sample Name: 480-47765-B-2-A Acquired: 10/18/2013 20:53:34 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0024	.04075	.00686	.09398	.13621	-0.0003	63.441	.00006	-0.0011
Stddev	.00037	.00835	.00474	.00003	.00005	.00001	.044	.00018	.00000
%RSD	150.03	20.489	68.989	.03670	.03394	16.450	.06990	317.31	2.0244

#1	-0.00050	.03485	.01021	.09400	.13618	-0.00004	63.409	.00019	-0.00011
#2	.00001	.04666	.00352	.09395	.13625	-0.00003	63.472	-0.00007	-0.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00038	.00006	.18850	2.4565	3.2701	.01215	30.097	.08923	.08044
Stddev	.00046	.00033	.00187	.0748	.0138	.00008	.021	.00016	.00018
%RSD	119.76	533.00	.99127	3.0453	.42230	.68097	.06869	.17585	.22523

#1	.00006	.00030	.18982	2.5094	3.2603	.01209	30.083	.08912	.08031
#2	.00071	-0.00017	.18718	2.4036	3.2799	.01221	30.112	.08934	.08057

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00321	44.971	.00035	-0.00289	F 11.60	.00106	.00039	6.3993	.00011
Stddev	.00041	.187	.00033	.00196	.01	.00041	.00016	.0117	.00013
%RSD	12.937	.41621	93.673	67.811	.0857	38.592	41.816	.18278	123.67

#1	.00291	45.104	.00012	-0.00150	11.59	.00077	.00028	6.3911	.00001
#2	.00350	44.839	.00059	-0.00428	11.61	.00135	.00051	6.4076	.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.64708	.00028	-0.00038	-0.00032	.00324
Stddev	.00015	.00010	.00346	.00026	.00006
%RSD	.02297	34.106	911.13	82.102	1.9799

#1	.64719	.00021	.00207	-0.00013	.00319
#2	.64698	.00035	-0.00283	-0.00050	.00328

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4319.7	6986.2	94933.	8014.3
Stddev	.4	5.6	112.	43.3
%RSD	.00889	.08073	.11827	.54054

#1	4320.0	6990.1	95013.	8044.9
#2	4319.4	6982.2	94854.	7983.6

Sample Name: 480-47765-B-3-A Acquired: 10/18/2013 20:55:56 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00000	.03058	.03402	.08576	.26113	-.00011	67.673	-.00003	-.00015
Stddev	.00029	.00662	.00068	.00041	.00008	.00010	.076	.00009	.00004
%RSD	9250.1	21.643	1.9939	.47743	.03017	92.255	.11281	305.98	29.142

#1	.00021	.02590	.03354	.08547	.26107	-.00018	67.619	.00003	-.00018
#2	-.00020	.03526	.03450	.08605	.26118	-.00004	67.727	-.00009	-.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00038	-.00039	.88612	1.6458	2.2551	.00935	27.708	.01151	.00987
Stddev	.00017	.00018	.00719	.0197	.0099	.00106	.008	.00007	.00021
%RSD	44.291	46.514	.81166	1.1976	.44044	11.389	.02781	.63685	2.0914

#1	.00050	-.00026	.88103	1.6597	2.2480	.00860	27.703	.01156	.01002
#2	.00026	-.00052	.89120	1.6319	2.2621	.01010	27.714	.01146	.00973

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00428	43.439	.00031	-.00315	7.350	-.00150	.00220	8.9913	.00017
Stddev	.00006	.028	.00004	.00095	.013	.00129	.00084	.0759	.00023
%RSD	1.4083	.06548	12.769	30.347	.1801	86.046	38.028	.84394	135.43

#1	.00424	43.459	.00028	-.00247	7.359	-.00059	.00161	8.9377	.00001
#2	.00432	43.419	.00033	-.00382	7.340	-.00241	.00279	9.0450	.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.66634	.00016	.00216	-.00040	.00223
Stddev	.00073	.00014	.00219	.00005	.00005
%RSD	.10994	87.652	101.42	12.186	2.1359

#1	.66686	.00026	.00371	-.00043	.00226
#2	.66582	.00006	.00061	-.00036	.00220

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4316.5	6991.0	95334.	7981.8
Stddev	1.9	3.9	208.	3.3
%RSD	.04414	.05585	.21856	.04098

#1	4315.2	6993.7	95481.	7984.1
#2	4317.8	6988.2	95187.	7979.4

Sample Name: 480-47765-A-4-A Acquired: 10/18/2013 20:58:18 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00044	.05985	.02724	.10065	.14386	-0.00006	65.661	.00003	-0.00021
Stddev	.00037	.00461	.00298	.00017	.00068	.00001	.247	.00016	.00008
%RSD	84.215	7.7048	10.930	.16912	.47424	11.114	.37679	497.52	36.897

#1	-0.00018	.05659	.02514	.10053	.14338	-0.00006	65.836	-0.00008	-0.00026
#2	-0.00071	.06311	.02935	.10077	.14434	-0.00005	65.487	.00015	-0.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	-0.00013	.60017	1.8391	2.4504	.01171	29.628	.03279	.02901
Stddev	.00013	.00017	.00207	.0160	.0005	.00095	.137	.00007	.00066
%RSD	27.619	132.30	.34410	.87058	.01971	8.1499	.46325	.22077	2.2769

#1	.00039	-0.00001	.59871	1.8504	2.4508	.01239	29.531	.03274	.02855
#2	.00058	-0.00025	.60163	1.8278	2.4501	.01104	29.725	.03284	.02948

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_2243)	(Y_3774)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00860	48.574	51.367	.00023	-0.00353	9.929	.00096	.00511	8.4880
Stddev	.00006	.064	.083	.00015	.00022	.023	.00265	.00032	.0029
%RSD	.64280	.13117	.16223	66.853	6.1434	.2350	275.09	6.3174	.03404

#1	.00856	48.619	51.308	.00012	-0.00368	9.946	-0.00091	.00534	8.4901
#2	.00864	48.529	51.426	.00034	-0.00337	9.913	.00284	.00489	8.4860

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	.57069	.00020	.00173	-0.00035	.02945
Stddev	.00025	.00177	.00043	.00097	.00002	.00045
%RSD	476.99	.31004	209.90	55.768	4.3776	1.5328

#1	.00023	.56943	-0.00010	.00241	-0.00036	.02913
#2	-0.00012	.57194	.00051	.00105	-0.00034	.02977

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4309.6	6966.9	94793.	8029.3
Stddev	9.1	7.0	632.	3.9
%RSD	.21187	.10035	.66665	.04897

#1	4316.1	6971.9	95240.	8032.1
#2	4303.2	6962.0	94347.	8026.5

Sample Name: 480-47765-A-5-A Acquired: 10/18/2013 21:00:39 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00042	.06893	.01488	.30012	.42218	-0.00008	86.699	.00010	.00049
Stddev	.00067	.01522	.00306	.00073	.00410	.00003	.046	.00007	.00008
%RSD	160.61	22.079	20.554	.24275	.97154	35.501	.05330	66.447	16.501

#1	-0.00089	.05817	.01704	.29961	.42508	-0.00010	86.667	.00005	.00055
#2	.00006	.07969	.01272	.30064	.41928	-0.00006	86.732	.00015	.00043

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00112	.00077	2.3165	2.7858	4.0741	.01752	45.605	.02025	.01840
Stddev	.00032	.00004	.0050	.0790	.0169	.00002	.090	.00004	.00031
%RSD	28.191	4.6615	.21795	2.8344	.41404	.09493	.19680	.19486	1.7079

#1	.00089	.00080	2.3201	2.8417	4.0860	.01753	45.541	.02028	.01862
#2	.00134	.00075	2.3130	2.7300	4.0622	.01751	45.668	.02022	.01818

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00504	99.605	.01635	-0.00364	3.375	-0.00078	.00014	10.056	.00013
Stddev	.00024	.192	.00035	.00016	.001	.00072	.00326	.007	.00002
%RSD	4.7226	.19260	2.1256	4.3255	.0143	91.527	2366.5	.06582	14.142

#1	.00487	99.469	.01610	-0.00375	3.374	-0.00028	.00244	10.052	.00012
#2	.00521	99.740	.01659	-0.00353	3.375	-0.00129	-0.00217	10.061	.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0949	.00037	.00072	.00003	.02195
Stddev	.0003	.00008	.00093	.00013	.00001
%RSD	.02429	20.380	130.15	380.28	.06475

#1	1.0947	.00042	.00138	.00012	.02196
#2	1.0951	.00032	.00006	-0.00006	.02194

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4172.6	6844.2	92968.	7945.4
Stddev	.6	10.2	30.	18.4
%RSD	.01487	.14924	.03246	.23098

#1	4173.0	6851.5	92990.	7958.4
#2	4172.2	6837.0	92947.	7932.5

Sample Name: CCV Acquired: 10/18/2013 21:03:07 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49027	24.994	.50308	.48819	.50912	.49700	24.334	.49823	.49212	.48722	.48643	24.616
Stddev	.00116	.011	.00262	.00115	.00075	.00124	.033	.00020	.00021	.00098	.00222	.080
%RSD	.23715	.04296	.52054	.23535	.14789	.24993	.13643	.03934	.04299	.20030	.45552	.32354

#1	.48945	25.002	.50494	.48900	.50859	.49613	24.311	.49837	.49197	.48653	.48486	24.560
#2	.49109	24.987	.50123	.48738	.50965	.49788	24.358	.49809	.49227	.48791	.48800	24.672

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.926	F 28.034	.51677	24.168	.50617	.45820	.49112	25.503	.49851	.49973	26.02	.52001
Stddev	.010	.217	.00076	.072	.00202	.00053	.00061	.030	.00013	.00285	.05	.00084
%RSD	.03920	.77542	.14755	.29651	.40006	.11482	.12353	.11752	.02681	.56969	.1833	.16148

#1	25.933	28.188	.51623	24.117	.50474	.45857	.49069	25.481	.49842	.50174	25.99	.52060
#2	25.919	27.880	.51731	24.219	.50760	.45782	.49155	25.524	.49860	.49772	26.06	.51942

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25.000										
Range		10.000%										

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49326	24.345	.48827	.50541	.48861	.50823	.47510	.48289
Stddev	.00075	.051	.00109	.00173	.00106	.00310	.00239	.00349
%RSD	.15230	.21066	.22370	.34187	.21617	.60933	.50403	.72199

#1	.49273	24.308	.48904	.50419	.48786	.50604	.47340	.48042
#2	.49380	24.381	.48750	.50663	.48935	.51042	.47679	.48535

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4398.4	7230.2	96961.	8052.1
Stddev	5.3	2.2	457.	41.7
%RSD	.12030	.03022	.47171	.51779
#1	4402.2	7231.8	97284.	8081.6
#2	4394.7	7228.7	96637.	8022.6

Sample Name: CCB Acquired: 10/18/2013 21:05:29 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00026	.03220	.00332	.00074	-.00004	-.00009	-.00566	-.00009	-.00009	-.00014	-.00076	-.00432
Stddev	.00021	.00787	.00229	.00010	.00000	.00006	.00064	.00006	.00004	.00005	.00010	.00292
%RSD	79.325	24.444	68.950	13.926	3.9262	67.951	11.353	74.641	47.115	36.856	13.502	67.444

#1	-.00011	.02663	.00170	.00066	-.00004	-.00005	-.00520	-.00013	-.00006	-.00010	-.00083	-.00639
#2	-.00041	.03777	.00494	.00081	-.00004	-.00014	-.00611	-.00004	-.00012	-.00017	-.00069	-.00226

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.07833	-.00066	-.00041	.00065	-.00008	-.00049	.00031	.02275	-.00029	.00046	F .0129	.00014
Stddev	.01347	.00012	.00055	.00547	.00006	.00030	.00009	.00089	.00006	.00035	.0013	.00071
%RSD	17.198	18.675	135.16	844.95	73.640	61.899	28.999	3.9012	20.894	76.964	9.799	497.30

#1	-.06880	-.00057	-.00079	.00452	-.00012	-.00027	.00025	.02338	-.00025	.00071	.0138	-.00036
#2	-.08785	-.00074	-.00002	-.00322	-.00004	-.00070	.00037	.02213	-.00033	.00021	.0120	.00065

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00142	.00015	-.00053	.00006	.00005	.00014	-.00019	.00009
Stddev	.00250	.01105	.00023	.00028	.00006	.00149	.00007	.00031
%RSD	176.77	7213.7	43.903	446.73	127.95	1068.2	37.187	334.71

#1	-.00035	-.00766	-.00070	.00026	.00009	-.00092	-.00024	.00031
#2	.00319	.00797	-.00037	-.00013	.00000	.00119	-.00014	-.00013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4721.8	7286.3	99387.	7939.8
Stddev	8.2	6.0	387.	30.2
%RSD	.17420	.08273	.38965	.38096
#1	4716.0	7282.0	99661.	7918.4
#2	4727.7	7290.5	99113.	7961.2

Sample Name: CCVL Acquired: 10/18/2013 21:07:56 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00259	.24219	.01186	.02011	.00202	.00196	.49417	.00090	.00393	.00393	.00923
Stddev	.00105	.01103	.00094	.00024	.00001	.00011	.00125	.00011	.00010	.00015	.00015
%RSD	40.465	4.5531	7.9191	1.1704	.38280	5.5540	.25270	12.281	2.6226	3.8620	1.6598

#1	.00333	.24999	.01119	.02027	.00202	.00189	.49505	.00097	.00386	.00403	.00912
#2	.00185	.23439	.01252	.01994	.00203	.00204	.49329	.00082	.00401	.00382	.00934

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	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04102	.39251	.45612	F .00220	.19846	.00352	.00290	.01019	.97098	.00967	W .00349
Stddev	.00244	.00383	.00223	.00001	.00161	.00007	.00030	.00044	.00856	.00036	.00038
%RSD	5.9488	.97620	.48920	.60292	.80924	1.9743	10.444	4.2942	.88161	3.6753	10.962

#1	.03929	.38980	.45454	.00221	.19732	.00348	.00311	.01050	.96493	.00992	.00376
#2	.04274	.39522	.45770	.00219	.19960	.00357	.00269	.00988	.97703	.00942	.00322

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value				.03000							.00500
Range				-50.000%							-30.000%

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0088	.01987	.01321	.49853	.00922	.00529	.00489	.02121	.00474	.00963
Stddev	.0006	.00119	.00164	.01671	.00031	.00005	.00014	.00078	.00009	.00032
%RSD	6.792	5.9823	12.411	3.3509	3.3995	.97754	2.9410	3.6873	1.8511	3.3750

#1	.0084	.01903	.01437	.51035	.00944	.00526	.00479	.02176	.00480	.00940
#2	.0093	.02071	.01205	.48672	.00899	.00533	.00499	.02065	.00468	.00986

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2000									
Range	-50.00%									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4722.4	7320.4	100150.	7993.3
Stddev	9.7	10.9	515.	70.2
%RSD	.20495	.14929	.51387	.87878

#1	4729.2	7328.1	100520.	8042.9
#2	4715.5	7312.7	99790.	7943.6

Sample Name: 480-47773-B-1-A Acquired: 10/18/2013 21:10:20 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00037	.06217	.00420	.03674	.11226	-0.00006	90.088	.00008	-0.00010
Stddev	.00060	.00790	.00083	.00028	.00001	.00003	.287	.00005	.00018
%RSD	161.77	12.706	19.898	.77472	.00596	51.188	.31905	64.491	176.09

#1	-0.00079	.05658	.00361	.03654	.11225	-0.00009	89.884	.00004	-0.00023
#2	.00005	.06775	.00479	.03694	.11226	-0.00004	90.291	.00011	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00098	-0.00017	2.2449	2.3547	3.2242	.00253	47.031	.15229	.13972
Stddev	.00014	.00021	.0035	.0068	.0228	.00036	.012	.00008	.00094
%RSD	14.620	124.62	.15578	.28857	.70712	14.159	.02624	.05437	.67631

#1	.00087	-0.00002	2.2424	2.3595	3.2081	.00228	47.040	.15223	.14039
#2	.00108	-0.00032	2.2473	2.3499	3.2403	.00279	47.022	.15235	.13905

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00015	64.771	.00022	-0.00143	.2868	-0.00170	-0.00019	8.2882	-0.00056
Stddev	.00019	.193	.00029	.00043	.0076	.00117	.00112	.0092	.00008
%RSD	125.92	.29835	131.59	30.205	2.641	68.864	591.17	.11135	14.627

#1	-0.00002	64.908	.00002	-0.00173	.2814	-0.00252	-0.00098	8.2817	-0.00062
#2	-0.00028	64.634	.00042	-0.00112	.2921	-0.00087	.00060	8.2948	-0.00050

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.17117	.00104	.00024	.00145	.00062
Stddev	.00062	.00018	.00124	.00025	.00032
%RSD	.36357	17.449	526.44	17.091	51.697

#1	.17161	.00092	-0.00064	.00128	.00085
#2	.17073	.00117	.00111	.00163	.00039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4206.3	6892.7	93934.	8045.4
Stddev	2.2	11.4	202.	2.4
%RSD	.05171	.16601	.21539	.02963
#1	4207.8	6900.8	93791.	8043.7
#2	4204.7	6884.6	94077.	8047.1

Sample Name: 480-47773-B-2-A Acquired: 10/18/2013 21:12:42 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00055	.05415	.00232	.03912	.14413	-0.00002	105.28	.00013	-0.00013
Stddev	.00057	.00591	.00045	.00005	.00042	.00001	.39	.00005	.00017
%RSD	104.45	10.913	19.419	.14010	.29095	71.943	.36885	40.312	132.58

#1	-0.00014	.04998	.00263	.03908	.14443	-0.00003	105.00	.00009	-0.00001
#2	-0.00095	.05833	.00200	.03916	.14384	-0.00001	105.55	.00016	-0.00024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00080	-0.00009	4.3341	2.0305	2.8124	.00757	47.066	.10120	.09309
Stddev	.00012	.00021	.0006	.0041	.0023	.00164	.169	.00009	.00033
%RSD	15.138	235.72	.01336	.20314	.08190	21.667	.35863	.08674	.35119

#1	.00072	.00006	4.3337	2.0334	2.8107	.00641	46.947	.10113	.09332
#2	.00089	-0.00024	4.3346	2.0275	2.8140	.00873	47.185	.10126	.09286

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01115	36.123	.00031	-0.00193	.2012	-0.00246	.00068	8.7292	-0.00035
Stddev	.00008	.136	.00035	.00010	.0008	.00062	.00268	.0162	.00007
%RSD	.67306	.37574	112.36	5.3937	.4207	25.214	394.28	.18517	20.700

#1	.01110	36.027	.00006	-0.00200	.2018	-0.00202	-0.00122	8.7178	-0.00030
#2	.01121	36.219	.00055	-0.00185	.2006	-0.00290	.00258	8.7406	-0.00040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.23481	.00061	.00162	.00019	.00026
Stddev	.00078	.00022	.00096	.00003	.00000
%RSD	.33353	35.570	59.207	13.410	1.4397

#1	.23536	.00077	.00094	.00017	.00027
#2	.23426	.00046	.00229	.00021	.00026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4225.4	6902.6	93911.	8075.0
Stddev	5.1	11.6	152.	34.8
%RSD	.12001	.16873	.16191	.43123

#1	4229.0	6910.8	94018.	8099.6
#2	4221.8	6894.3	93803.	8050.3

Sample Name: 480-47773-B-3-A Acquired: 10/18/2013 21:15:04 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.07539	.00340	.03955	.14205	-.00010	104.94	.00008	-.00023
Stddev	.00040	.03016	.00131	.00006	.00026	.00001	.07	.00011	.00003
%RSD	1227.0	40.007	38.478	.14760	.18305	7.0177	.06579	149.04	13.693

#1	-.00025	.09671	.00433	.03951	.14186	-.00010	104.99	-.00000	-.00021
#2	.00032	.05406	.00248	.03959	.14223	-.00009	104.89	.00016	-.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00060	.00006	4.3283	2.0250	2.8090	.00710	46.356	.09971	.09045
Stddev	.00013	.00014	.0089	.0141	.0351	.00068	.074	.00045	.00019
%RSD	21.532	248.13	.20438	.69398	1.2511	9.5396	.15925	.45153	.21135

#1	.00069	-.00004	4.3221	2.0349	2.7841	.00758	46.408	.10003	.09059
#2	.00051	.00015	4.3346	2.0151	2.8338	.00662	46.304	.09939	.09032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01148	35.812	.00009	-.00349	.2035	-.00102	.00492	8.6458	-.00024
Stddev	.00010	.084	.00001	.00099	.0033	.00024	.00019	.0111	.00025
%RSD	.86188	.23573	16.319	28.256	1.636	23.567	3.8407	.12884	108.06

#1	.01155	35.872	.00010	-.00279	.2059	-.00119	.00505	8.6380	-.00006
#2	.01141	35.752	.00008	-.00419	.2012	-.00085	.00478	8.6537	-.00042

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.23137	.00056	.00105	-.00003	.00103
Stddev	.00030	.00035	.00143	.00009	.00013
%RSD	.13009	62.543	136.22	286.53	12.987

#1	.23158	.00031	.00004	-.00010	.00112
#2	.23115	.00081	.00207	.00003	.00093

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4221.7	6898.4	93917.	7967.9
Stddev	2.7	3.4	199.	24.5
%RSD	.06404	.04871	.21233	.30753

#1	4223.6	6896.0	93776.	7985.2
#2	4219.8	6900.8	94059.	7950.6

Sample Name: 480-47786-C-1-A Acquired: 10/18/2013 21:17:26 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	.06619	.00207	.01843	.03729	-.00007	194.47	.00021	.00036
Stddev	.00027	.00670	.00287	.00013	.00005	.00001	.40	.00001	.00003
%RSD	281.52	10.124	138.15	.67906	.13530	16.229	.20566	5.6373	7.8121

#1	-.00010	.07093	.00410	.01834	.03733	-.00006	194.75	.00020	.00038
#2	.00029	.06145	.00005	.01852	.03726	-.00008	194.19	.00021	.00034

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00093	.00034	.02096	13.365	17.341	.04563	34.128	.17397	.15995
Stddev	.00001	.00004	.00231	.061	.140	.00111	.039	.00015	.00109
%RSD	1.1168	10.882	11.035	.45681	.80714	2.4337	.11307	.08497	.67985

#1	.00093	.00031	.02259	13.408	17.440	.04485	34.100	.17387	.15918
#2	.00094	.00036	.01932	13.322	17.242	.04642	34.155	.17408	.16072

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00039	45.466	.00270	-.00485	F 23.46	-.00141	.00422	11.961	-.00043
Stddev	.00024	.056	.00077	.00210	.03	.00059	.00275	.022	.00029
%RSD	60.566	.12207	28.717	43.374	.1136	41.906	65.113	.18359	66.787

#1	.00022	45.505	.00324	-.00634	23.48	-.00099	.00616	11.977	-.00023
#2	.00056	45.427	.00215	-.00336	23.44	-.00183	.00227	11.945	-.00063

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.68575	.00199	.00140	.00011	.00939
Stddev	.00075	.00025	.00088	.00020	.00032
%RSD	.10985	12.752	62.650	175.70	3.4351

#1	.68522	.00181	.00078	-.00003	.00962
#2	.68628	.00217	.00202	.00026	.00916

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4114.5	6761.7	92499.	8006.4
Stddev	1.8	16.8	243.	19.3
%RSD	.04345	.24781	.26242	.24159

#1	4115.7	6773.6	92671.	7992.7
#2	4113.2	6749.9	92328.	8020.1

Sample Name: 480-47786-C-2-A Acquired: 10/18/2013 21:19:52 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00043	.04595	.00386	.01076	.05644	-0.0002	213.44	.00064	.00038
Stddev	.00054	.00133	.00203	.00000	.00003	.00015	1.25	.00006	.00009
%RSD	126.70	2.8946	52.565	.01292	.05550	792.17	.58447	9.5275	22.389

#1	.00081	.04689	.00529	.01076	.05646	.00009	214.33	.00060	.00044
#2	.00004	.04501	.00242	.01076	.05641	-.00013	212.56	.00068	.00032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00072	.00216	.00575	15.603	20.123	.05305	60.303	.04248	.03900
Stddev	.00028	.00031	.00189	.011	.016	.00082	.161	.00006	.00042
%RSD	38.290	14.270	32.828	.07054	.07973	1.5371	.26698	.13080	1.0713

#1	.00092	.00194	.00442	15.611	20.135	.05363	60.189	.04252	.03871
#2	.00053	.00237	.00709	15.595	20.112	.05247	60.416	.04244	.03930

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00022	45.709	.03724	-0.0422	F 11.78	.00007	.00204	11.858	.00001
Stddev	.00000	.118	.00076	.00116	.01	.00136	.00172	.062	.00090
%RSD	.84887	.25869	2.0428	27.466	.0706	1921.6	84.275	.52086	7639.4

#1	.00022	45.792	.03670	-.00340	11.77	.00103	.00325	11.902	-.00062
#2	.00022	45.625	.03778	-.00503	11.79	-.00089	.00082	11.815	.00065

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.4369	.00109	-0.00023	-0.00002	.01943
Stddev	.0034	.00002	.00320	.00001	.00030
%RSD	.23747	2.0749	1415.5	88.521	1.5443

#1	1.4345	.00110	.00203	-.00001	.01965
#2	1.4393	.00107	-.00249	-.00003	.01922

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4059.6	6712.5	91674.	7954.0
Stddev	2.0	3.0	285.	32.5
%RSD	.04823	.04461	.31118	.40855

#1	4061.0	6714.6	91875.	7931.0
#2	4058.2	6710.4	91472.	7977.0

Sample Name: 480-47786-C-3-A Acquired: 10/18/2013 21:22:19 Type: Unk

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00144	.03318	.10723	.68550	.05931	-0.00002	109.51	-0.00002	.10739
Stddev	.00048	.01403	.00174	.00180	.00015	.00003	.37	.00010	.00012
%RSD	33.183	42.293	1.6197	.26318	.25223	134.23	.34106	480.14	.11455

#1	.00178	.04311	.10601	.68678	.05921	-0.00000	109.77	.00005	.10748
#2	.00110	.02326	.10846	.68423	.05942	-0.00004	109.25	-0.00009	.10730

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00336	.00014	20.759	13.542	17.954	.00404	18.915	11.411	11.177
Stddev	.00007	.00002	.051	.061	.093	.00026	.030	.020	.006
%RSD	2.0895	17.391	.24326	.44980	.51699	6.3339	.15743	.17507	.05311

#1	.00341	.00012	20.794	13.585	18.020	.00423	18.936	11.425	11.173
#2	.00331	.00016	20.723	13.499	17.888	.00386	18.894	11.397	11.181

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00081	100.18	.01272	.00153	F 21.39	-0.00099	.00881	9.0884	.00039
Stddev	.00018	.37	.00011	.00024	.04	.00066	.00198	.0683	.00081
%RSD	21.665	.36534	.88143	16.031	.1862	66.841	22.488	.75192	206.37

#1	.00094	100.44	.01264	.00135	21.42	-0.00052	.01021	9.1367	.00096
#2	.00069	99.918	.01280	.00170	21.37	-0.00145	.00741	9.0401	-0.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.67548	.00088	.00442	.00142	.00452
Stddev	.00088	.00004	.00150	.00002	.00045
%RSD	.12986	5.0574	33.989	1.7537	9.9395

#1	.67610	.00085	.00549	.00140	.00483
#2	.67486	.00091	.00336	.00144	.00420

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4147.6	6845.5	92488.	7881.5
Stddev	1.9	10.1	32.	14.3
%RSD	.04581	.14747	.03413	.18141

#1	4148.9	6838.4	92510.	7871.4
#2	4146.2	6852.6	92465.	7891.6

Sample Name: 480-47786-C-4-A Acquired: 10/18/2013 21:24:49 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00145	.16547	.00953	.01993	.06015	-.00006	36.766	.00008	.07968
Stddev	.00001	.00265	.00184	.00011	.00020	.00001	.105	.00002	.00005
%RSD	.54347	1.5995	19.268	.57232	.33624	16.434	.28610	22.244	.06856

#1	.00144	.16360	.00824	.01985	.06030	-.00005	36.840	.00009	.07965
#2	.00145	.16734	.01083	.02001	.06001	-.00006	36.691	.00007	.07972

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00209	.00186	4.8192	35.754	41.020	-.00010	6.6160	8.8447	8.5698
Stddev	.00001	.00002	.0282	.115	.594	.00028	.0045	.0165	.0036
%RSD	.42272	1.2905	.58524	.32291	1.4478	286.15	.06790	.18620	.04176

#1	.00208	.00187	4.8391	35.672	40.601	.00010	6.6128	8.8563	8.5723
#2	.00209	.00184	4.7992	35.835	41.440	-.00029	6.6192	8.8330	8.5672

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00949	130.49	.02043	-.00049	F 20.15	-.00105	.00436	5.7816	-.00010
Stddev	.00007	.06	.00038	.00019	.02	.00158	.00305	.0243	.00027
%RSD	.76084	.04221	1.8665	39.224	.0954	149.89	70.034	.42031	268.51

#1	.00944	130.45	.02070	-.00063	20.16	-.00216	.00651	5.7644	.00009
#2	.00954	130.53	.02016	-.00035	20.13	.00006	.00220	5.7988	-.00029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.71757	.00052	.00814	.00172	.00756
Stddev	.00144	.00026	.00176	.00025	.00032
%RSD	.19998	50.429	21.669	14.258	4.1810

#1	.71655	.00070	.00939	.00155	.00734
#2	.71858	.00033	.00689	.00189	.00778

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4235.6	6937.4	93110.	8045.2
Stddev	7.1	5.6	236.	11.2
%RSD	.16825	.08117	.25369	.13900

#1	4230.6	6941.3	92943.	8037.3
#2	4240.7	6933.4	93277.	8053.1

Sample Name: 480-47786-C-5-A Acquired: 10/18/2013 21:27:20 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00191	.05673	.08975	.76461	.05795	-0.00003	102.82	-0.00007	.09113
Stddev	.00030	.00725	.00419	.00107	.00034	.00001	.31	.00007	.00003
%RSD	15.681	12.777	4.6711	.14026	.58219	38.144	.30220	102.49	.03059

#1	.00170	.05161	.09271	.76385	.05771	-0.00003	103.04	-0.00011	.09115
#2	.00212	.06186	.08678	.76537	.05819	-0.00002	102.60	-0.00002	.09111

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00294	.00039	15.209	13.153	17.114	.00384	18.668	11.619	11.433
Stddev	.00037	.00021	.018	.033	.086	.00107	.127	.048	.100
%RSD	12.609	53.464	.11782	.24985	.50347	27.737	.68047	.41181	.87703

#1	.00267	.00024	15.196	13.130	17.175	.00309	18.578	11.586	11.362
#2	.00320	.00054	15.222	13.176	17.053	.00460	18.758	11.653	11.504

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00130	100.04	.01195	.00051	F 20.26	-0.00232	.00715	9.3397	.00010
Stddev	.00007	.67	.00002	.00048	.00	.00071	.00297	.0112	.00050
%RSD	5.6648	.66628	.16766	94.306	.0193	30.661	41.484	.12029	511.82

#1	.00125	99.573	.01193	.00017	20.27	-0.00182	.00924	9.3318	-.00025
#2	.00135	100.52	.01196	.00085	20.26	-0.00282	.00505	9.3477	.00045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.64731	.00075	.00756	.00125	.00450
Stddev	.00239	.00005	.00322	.00001	.00021
%RSD	.36861	6.9355	42.612	.91833	4.7163

#1	.64562	.00071	.00983	.00126	.00435
#2	.64900	.00079	.00528	.00125	.00465

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4161.8	6852.4	92919.	7995.2
Stddev	1.1	5.4	542.	14.5
%RSD	.02703	.07846	.58315	.18097

#1	4161.0	6848.6	93303.	7984.9
#2	4162.6	6856.2	92536.	8005.4

Sample Name: 47722-4 tot raw Acquired: 10/18/2013 21:29:49 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00086	.19457	-0.00565	.36426	.03686	-0.00014	48.695	-0.00011	.00047
Stddev	.00007	.03654	.00017	.00027	.00002	.00000	.193	.00012	.00009
%RSD	7.8196	18.780	3.0781	.07375	.05680	3.1497	.39700	109.75	18.053

#1	-0.00091	.22041	-0.00577	.36445	.03684	-0.00014	48.832	-0.00002	.00053
#2	-0.00081	.16873	-0.00553	.36407	.03687	-0.00015	48.559	-0.00019	.00041

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00284	.00100	.26777	6.6244	9.3785	.00106	7.6464	.01655	.01512
Stddev	.00043	.00005	.00159	.0172	.1003	.00028	.0087	.00006	.00089
%RSD	.21186	5.4497	.59507	.25994	1.0698	26.785	.11423	.35630	5.8971

#1	.02053	.00096	.26664	6.6122	9.4494	.00127	7.6526	.01659	.01449
#2	.00314	.00104	.26889	6.6366	9.3076	.00086	7.6402	.01651	.01575

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00048	88.544	.00566	-0.00203	F 15.85	-0.00131	.00145	7.2824	-0.00041
Stddev	.00000	.012	.00022	.00084	.07	.00131	.00109	.0145	.00031
%RSD	.34424	.01392	3.9215	41.210	.4111	99.825	75.189	.19915	76.799

#1	.00048	88.553	.00550	-0.00262	15.90	-0.00039	.00221	7.2926	-0.00063
#2	.00048	88.536	.00581	-0.00144	15.80	-0.00223	.00068	7.2721	-0.00019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2.000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.34104	.01090	.00217	.00112	.00886
Stddev	.00037	.00089	.00058	.00002	.00025
%RSD	.10971	8.1619	26.870	1.4605	2.7938

#1	.34130	.01027	.00175	.00110	.00869
#2	.34077	.01153	.00258	.00113	.00904

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4494.3	7319.1	97220.	8265.9
Stddev	7.7	15.5	474.	29.3
%RSD	.17083	.21130	.48739	.35481

#1	4499.7	7330.1	97555.	8245.2
#2	4488.9	7308.2	96885.	8286.6

Sample Name: CCV Acquired: 10/18/2013 21:32:17 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49098	25.109	.50612	.48921	.51348	.49701	24.447	.49897	.49200	.48465	.48723	24.494
Stddev	.00162	.083	.00276	.00095	.00006	.00162	.058	.00036	.00012	.00248	.00523	.092
%RSD	.33071	.33172	.54513	.19324	.01076	.32551	.23590	.07289	.02418	.51270	1.0729	.37526

#1	.49213	25.050	.50416	.48855	.51352	.49587	24.406	.49923	.49208	.48641	.49093	24.429
#2	.48983	25.168	.50807	.48988	.51344	.49816	24.487	.49871	.49192	.48289	.48354	24.559

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.291	F 28.854	.52204	23.998	.50305	.45098	.49287	25.680	.49772	.49893	26.04	.52085
Stddev	.059	.066	.00095	.014	.00015	.00485	.00048	.062	.00068	.00219	.07	.00115
%RSD	.22626	.22708	.18127	.05840	.03019	1.0744	.09803	.24116	.13650	.43978	.2878	.22039

#1	26.333	28.808	.52271	24.008	.50316	.45440	.49252	25.724	.49724	.50048	25.99	.52004
#2	26.249	28.900	.52137	23.988	.50294	.44755	.49321	25.636	.49820	.49738	26.10	.52166

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25.000										
Range		10.000%										

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49290	24.469	.48992	.50337	.48615	.50687	.47290	.47591
Stddev	.00388	.055	.00080	.00175	.00018	.00223	.00206	.00039
%RSD	.78800	.22440	.16292	.34825	.03725	.43972	.43482	.08223

#1	.49015	24.430	.49048	.50213	.48602	.50530	.47436	.47563
#2	.49565	24.507	.48935	.50461	.48628	.50845	.47145	.47619

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4361.0	7150.8	96410.	7896.1
Stddev	2.9	1.6	279.	38.9
%RSD	.06595	.02239	.28948	.49208
#1	4359.0	7152.0	96213.	7923.6
#2	4363.0	7149.7	96608.	7868.6

Sample Name: CCB Acquired: 10/18/2013 21:34:38 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00067	.03275	.00185	.00098	-0.00006	-0.00005	-0.00528	-0.00011	-0.00002	-0.00019	-0.00076	-0.00482
Stddev	.00013	.00338	.00213	.00016	.00001	.00000	.00179	.00004	.00006	.00002	.00036	.00462
%RSD	19.099	10.312	115.34	16.624	12.634	3.4357	33.874	40.037	233.05	8.4732	47.022	95.867

#1	-0.00076	.03036	.00034	.00110	-0.00007	-0.00004	-0.00655	-0.00014	-0.00007	-0.00020	-0.00101	-0.00809
#2	-0.00058	.03513	.00336	.00087	-0.00006	-0.00005	-0.00402	-0.00008	.00002	-0.00018	-0.00051	-0.00155

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00855	.00040	-0.00041	-0.00039	-0.00003	-0.00043	.00016	.00931	-0.00021	-0.00049	F .0113	-0.00035
Stddev	.00634	.00000	.00002	.00026	.00003	.00069	.00024	.00346	.00052	.00101	.0027	.00151
%RSD	74.171	.04661	3.8541	67.194	91.709	162.79	150.97	37.140	240.67	207.14	23.90	434.59

#1	-0.00406	.00040	-0.00042	-0.00021	-0.00001	.00006	-0.00001	.01176	-0.00058	-0.00120	.0133	.00072
#2	-0.01303	.00040	-0.00040	-0.00058	-0.00005	-0.00092	.00033	.00687	.00015	.00023	.0094	-0.00141

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-0.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00333	.00706	-0.00010	-0.00008	.00009	-0.00052	.00002	-0.00021
Stddev	.00102	.02121	.00027	.00033	.00036	.00095	.00001	.00025
%RSD	30.631	300.46	266.04	389.48	407.65	182.66	59.439	115.97

#1	.00405	.02206	.00009	.00015	.00034	.00015	.00003	-0.00039
#2	.00261	-0.00794	-0.00029	-0.00032	-0.00016	-0.00120	.00001	-0.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4716.5	7261.6	99283.	7954.2
Stddev	6.5	9.4	148.	36.1
%RSD	.13877	.12893	.14954	.45354
#1	4711.9	7255.0	99388.	7928.7
#2	4721.1	7268.2	99178.	7979.7

Sample Name: CCVL Acquired: 10/18/2013 21:37:04 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00255	.23914	.01070	.02039	.00202	.00198	.49318	.00089	.00391	.00376	.00903
Stddev	.00021	.00482	.00082	.00029	.00003	.00006	.00627	.00005	.00001	.00013	.00032
%RSD	8.4024	2.0148	7.7071	1.4193	1.3739	2.9678	1.2718	5.7434	.14789	3.4368	3.5036

#1	.00240	.24255	.01011	.02019	.00200	.00202	.49762	.00085	.00392	.00385	.00880
#2	.00271	.23574	.01128	.02060	.00204	.00194	.48875	.00093	.00391	.00367	.00925

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	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04334	.42025	.45035	F .00309	.19778	W .00420	.00291	.01031	.95489	.00960	.00401
Stddev	.00143	.03489	.00104	.00068	.00286	.00005	.00131	.00006	.00482	.00012	.00023
%RSD	3.3109	8.3023	.23070	21.950	1.4475	1.1002	45.116	.55837	.50467	1.2906	5.6293

#1	.04232	.44492	.44961	.00356	.19981	.00416	.00384	.01035	.95830	.00969	.00417
#2	.04435	.39558	.45108	.00261	.19576	.00423	.00198	.01027	.95149	.00952	.00385

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.03000		.00300					
Range				-50.000%		30.000%					

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0081	.02115	.01645	.49694	.00925	.00518	.00475	.02034	.00478	.00977
Stddev	.0009	.00108	.00280	.00287	.00023	.00022	.00038	.00113	.00042	.00020
%RSD	11.21	5.1141	17.036	.57792	2.4618	4.1751	8.0852	5.5419	8.7349	2.0591

#1	.0087	.02038	.01843	.49897	.00941	.00533	.00502	.01954	.00449	.00963
#2	.0074	.02191	.01447	.49491	.00909	.00503	.00447	.02114	.00508	.00992

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2000									
Range	-50.00%									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4731.7	7318.7	99816.	8035.5
Stddev	2.6	7.3	401.	20.1
%RSD	.05490	.10033	.40166	.25046
#1	4729.8	7323.9	100100.	8021.3
#2	4733.5	7313.5	99533.	8049.8

Sample Name: 47632-2 tot raw Acquired: 10/18/2013 21:39:30 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00035	.05374	.00414	.03403	.02031	-0.00010	22.101	-0.00023	.00135
Stddev	.00023	.00908	.00099	.00020	.00007	.00001	.161	.00000	.00007
%RSD	67.010	16.896	24.032	.59844	.36311	14.903	.72982	.19708	4.8682

#1	-0.00051	.04732	.00344	.03389	.02037	-0.00011	22.215	-0.00023	.00139
#2	-0.00018	.06016	.00484	.03418	.02026	-0.00009	21.987	-0.00023	.00130

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00028	.00103	1.1043	4.7086	5.5434	-0.00002	8.5603	.57431	.50658
Stddev	.00038	.00015	.0112	.0062	.0657	.00068	.0176	.00104	.00061
%RSD	134.65	14.713	1.0151	.13138	1.1854	3352.6	.20518	.18109	.12087

#1	.00055	.00114	1.1122	4.7042	5.5899	.00046	8.5727	.57504	.50702
#2	.00001	.00093	1.0963	4.7130	5.4969	-0.00050	8.5479	.57357	.50615

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00077	3.9588	.00208	-0.00030	F 16.54	-0.00166	.00005	1.5986	-0.00051
Stddev	.00014	.0101	.00033	.00073	.02	.00146	.00028	.0042	.00005
%RSD	17.920	.25576	15.791	242.51	.1201	87.883	535.34	.26342	9.6789

#1	.00067	3.9660	.00232	-0.00082	16.52	-0.00269	.00025	1.5956	-0.00054
#2	.00087	3.9517	.00185	.00021	16.55	-0.00063	-0.00015	1.6016	-0.00047

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-2000				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.07586	.00033	.00378	.00034	.00173
Stddev	.00032	.00003	.00241	.00013	.00057
%RSD	.41851	9.8631	63.892	36.928	33.192

#1	.07563	.00035	.00548	.00043	.00132
#2	.07608	.00031	.00207	.00025	.00213

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4781.0	7509.6	100720.	8348.5
Stddev	20.3	39.9	158.	7.3
%RSD	.42519	.53087	.15679	.08685

#1	4795.3	7537.8	100830.	8353.7
#2	4766.6	7481.4	100600.	8343.4

Sample Name: 47632-3 tot raw Acquired: 10/18/2013 21:41:57 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00077	.02749	.00198	.51018	.19084	-0.00011	16.599	-0.00015	.00037
Stddev	.00054	.00332	.00027	.00076	.00025	.00002	.003	.00001	.00006
%RSD	69.346	12.089	13.761	.14925	.13203	17.368	.02051	4.3831	15.056

#1	-0.00039	.02514	.00179	.50964	.19101	-0.00010	16.601	-0.00014	.00041
#2	-0.00115	.02984	.00217	.51071	.19066	-0.00013	16.596	-0.00015	.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	.00002	16.589	35.833	38.878	-0.00020	14.684	.02640	.02302
Stddev	.00006	.00006	.007	.270	.147	.00085	.011	.00002	.00011
%RSD	143.12	263.47	.04338	.75276	.37717	431.70	.07471	.09169	.46142

#1	-0.00000	.00006	16.583	35.643	38.982	.00041	14.677	.02642	.02294
#2	.00009	-0.00002	16.594	36.024	38.774	-0.00080	14.692	.02638	.02309

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00012	29.329	.00250	.00066	9.984	-0.00083	-0.00134	2.2645	.00011
Stddev	.00004	.205	.00028	.00003	.012	.00140	.00129	.0141	.00030
%RSD	31.645	.69831	11.139	4.9416	.1219	169.62	96.107	.62358	262.35

#1	-0.00014	29.184	.00269	.00069	9.993	.00016	-0.00043	2.2545	-0.00010
#2	-0.00009	29.474	.00230	.00064	9.975	-0.00182	-0.00225	2.2745	.00032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.13439	-0.00022	.00170	-0.00021	.02837
Stddev	.00006	.00024	.00033	.00016	.00053
%RSD	.04283	107.84	19.641	76.660	1.8538

#1	.13444	-0.00005	.00147	-0.00010	.02874
#2	.13435	-0.00039	.00194	-0.00032	.02800

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4543.5	7300.1	98529.	8319.3
Stddev	14.4	31.0	216.	5.5
%RSD	.31724	.42398	.21964	.06562

#1	4553.7	7322.0	98682.	8323.2
#2	4533.4	7278.2	98376.	8315.4

Sample Name: 47580-1 sol raw Acquired: 10/18/2013 21:44:22 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00074	.03029	.00874	.14243	.10413	-0.00006	120.94	-0.00007	.00180
Stddev	.00036	.01319	.00234	.00064	.00029	.00003	.65	.00004	.00004
%RSD	48.636	43.534	26.725	.45052	.27688	47.972	.53866	62.488	2.2195

#1	-0.00049	.02097	.00709	.14289	.10393	-0.00004	120.48	-0.00010	.00183
#2	-0.00100	.03961	.01040	.14198	.10434	-0.00007	121.40	-0.00004	.00177

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	.00027	1.7611	6.4334	8.6849	.00226	24.044	1.2356	1.1374
Stddev	.00001	.00010	.00051	.0831	.0848	.00061	.040	.0019	.0023
%RSD	1.8302	35.619	.28812	1.2920	.97653	26.949	.16459	.15519	.19907

#1	.00049	.00034	1.7575	6.3746	8.6249	.00183	24.072	1.2370	1.1390
#2	.00048	.00021	1.7647	6.4922	8.7448	.00269	24.016	1.2343	1.1358

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00057	41.753	.00872	-0.00294	5.080	-0.00190	-0.00022	8.1518	-0.00044
Stddev	.00015	.441	.00020	.00189	.009	.00056	.00212	.1224	.00016
%RSD	27.265	1.0571	2.2963	64.297	.1855	29.742	966.71	1.5009	35.621

#1	.00067	41.441	.00857	-0.00160	5.073	-0.00229	.00128	8.0653	-0.00055
#2	.00046	42.065	.00886	-0.00427	5.086	-0.00150	-0.00172	8.2383	-0.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.13610	.00046	.00292	.00006	.34033
Stddev	.00039	.00028	.00074	.00019	.00243
%RSD	.28339	61.084	25.321	311.76	.71547

#1	.13637	.00026	.00344	.00020	.34205
#2	.13582	.00066	.00239	-0.00007	.33861

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4333.5	7057.0	94719.	8117.7
Stddev	8.7	19.3	88.	71.9
%RSD	.20096	.27401	.09255	.88532

#1	4339.6	7070.7	94781.	8168.5
#2	4327.3	7043.3	94657.	8066.9

Sample Name: 47580-12 sol raw Acquired: 10/18/2013 21:46:48 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0001	.02104	.00229	.01373	.05729	-0.0012	64.107	-0.0009	-0.0010
Stddev	.00036	.00861	.00122	.00019	.00030	.00000	.391	.00006	.00003
%RSD	6927.4	40.934	53.346	1.3814	.52118	.32009	.60987	69.562	33.251

#1	.00025	.02713	.00142	.01387	.05708	-0.0012	64.383	-0.0004	-0.0008
#2	-0.00026	.01495	.00315	.01360	.05750	-0.0012	63.830	-0.0013	-0.0012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	.00046	.60631	.97905	1.2107	.00227	23.132	.03487	.03118
Stddev	.00006	.00006	.00056	.06795	.0053	.00124	.042	.00007	.00123
%RSD	16.933	13.138	.09312	6.9400	.43891	54.488	.18067	.20351	3.9527

#1	.00032	.00042	.60592	.93101	1.2069	.00315	23.102	.03492	.03205
#2	.00041	.00050	.60671	1.0271	1.2144	.00140	23.161	.03482	.03031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00067	4.6574	.00027	-0.00181	2.680	-0.00079	-0.00081	6.2448	-0.00006
Stddev	.00019	.0412	.00000	.00069	.001	.00140	.00229	.0207	.00015
%RSD	28.506	.88431	.40837	38.293	.0321	176.57	283.74	.33085	257.77

#1	.00081	4.6865	.00027	-0.00132	2.681	.00020	-0.00243	6.2594	.00005
#2	.00054	4.6282	.00027	-0.00230	2.679	-0.00178	.00081	6.2302	-0.00016

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08794	.00032	.00249	-0.00017	2.0609
Stddev	.00021	.00009	.00046	.00010	.0106
%RSD	.23929	29.120	18.560	62.249	.51627

#1	.08779	.00038	.00216	-0.00024	2.0534
#2	.08809	.00025	.00281	-0.00009	2.0684

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4541.8	7242.4	97295.	8131.2
Stddev	7.5	17.6	625.	9.5
%RSD	.16622	.24248	.64237	.11710

#1	4547.2	7254.8	97737.	8124.5
#2	4536.5	7229.9	96853.	8138.0

Sample Name: 47580-7 sol raw Acquired: 10/18/2013 21:49:09 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	.01534	.01060	.03342	.16324	-.00008	87.294	-.00008	.00406
Stddev	.00018	.03360	.00128	.00001	.00040	.00004	.021	.00001	.00001
%RSD	186.92	219.01	12.044	.04418	.24343	54.816	.02415	17.238	.33508

#1	-.00003	-.00842	.01150	.03343	.16352	-.00005	87.279	-.00007	.00405
#2	.00022	.03910	.00970	.03341	.16296	-.00010	87.309	-.00009	.00407

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00048	-.00011	.48823	1.1498	1.5530	.00176	32.177	.56945	.51425
Stddev	.00007	.00034	.00018	.0080	.0109	.00022	.019	.00043	.00122
%RSD	14.638	303.04	.03673	.69420	.69953	12.190	.05909	.07518	.23755

#1	.00043	-.00035	.48836	1.1442	1.5606	.00161	32.190	.56975	.51511
#2	.00052	.00013	.48811	1.1555	1.5453	.00192	32.164	.56914	.51338

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00891	15.906	.04483	-.00271	7.668	-.00016	.00091	7.5512	-.00030
Stddev	.00032	.102	.00037	.00113	.010	.00037	.00071	.0210	.00004
%RSD	3.5999	.64045	.82440	41.553	.1254	227.55	77.893	.27776	11.791

#1	.00913	15.834	.04509	-.00351	7.661	-.00042	.00141	7.5660	-.00033
#2	.00868	15.978	.04457	-.00191	7.675	.00010	.00041	7.5364	-.00028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09597	.00049	.00450	.00034	.00072
Stddev	.00020	.00013	.00140	.00021	.00003
%RSD	.20853	26.068	31.212	63.350	3.9811

#1	.09611	.00058	.00351	.00019	.00074
#2	.09583	.00040	.00549	.00049	.00070

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4420.2	7139.1	95265.	8011.5
Stddev	3.8	15.4	151.	4.3
%RSD	.08584	.21547	.15813	.05368

#1	4422.9	7150.0	95372.	8014.5
#2	4417.5	7128.3	95158.	8008.4

Sample Name: RB Acquired: 10/18/2013 21:51:30 Type: Unk
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00039	.04378	.00149	.00017	-0.00005	-0.00001	-0.00231	-0.00012	-0.00002
Stddev	.00044	.00461	.00037	.00015	.00002	.00004	.00339	.00013	.00001
%RSD	110.72	10.530	24.982	91.427	33.155	249.97	147.23	102.41	35.688

#1	-0.00009	.04052	.00123	.00027	-0.00007	-0.00004	.00009	-0.00003	-0.00001
#2	-0.00070	.04704	.00176	.00006	-0.00004	.00001	-.00471	-0.00021	-0.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00017	-0.00058	-0.00680	-0.01554	-0.00076	-0.00144	-0.00047	-0.00006	.00019
Stddev	.00018	.00026	.00086	.03691	.00009	.00034	.00784	.00001	.00036
%RSD	104.81	45.101	12.607	237.59	11.296	23.902	1662.7	20.942	190.95

#1	-0.00030	-0.00039	-0.00741	-.04164	-0.00070	-0.00168	-0.00602	-0.00005	-0.00007
#2	-0.00004	-0.00076	-0.00619	.01057	-0.00083	-0.00119	.00507	-0.00007	.00044

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	-0.00228	-0.00036	-0.00038	.00079	-0.00070	.00027	.00512	-0.00015
Stddev	.00010	.00493	.00033	.00052	.0021	.00087	.00365	.00364	.00008
%RSD	78.502	216.02	90.598	138.96	26.34	122.98	1375.7	71.188	53.161

#1	.00020	.00120	-0.00060	-0.00001	.0064	-0.00009	.00285	.00254	-0.00010
#2	.00006	-.00577	-0.00013	-0.00075	.0093	-0.00132	-.00232	.00769	-0.00021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00007	-0.00001	-0.00127	.00005	.00063
Stddev	.00012	.00018	.00099	.00004	.00005
%RSD	181.08	1417.7	77.919	72.300	7.5836

#1	.00015	.00012	-0.00057	.00008	.00066
#2	-0.00002	-0.00014	-0.00197	.00003	.00059

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4661.2	7181.5	97929.	7882.2
Stddev	8.3	10.5	462.	64.5
%RSD	.17833	.14650	.47150	.81879

#1	4655.3	7174.0	97602.	7836.6
#2	4667.0	7188.9	98255.	7927.9

Sample Name: CCVL-1680809 Acquired: 10/18/2013 21:53:55 Type: QC

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00219	.23253	W .01320	.02010	.00205	.00193	.49823	.00084	.00390	.00370	.00941
Stddev	.00026	.00838	.00093	.00036	.00002	.00008	.00261	.00008	.00009	.00008	.00005
%RSD	11.817	3.6041	7.0680	1.7843	.92226	4.3748	.52448	9.2379	2.3992	2.2794	.56459

#1	.00237	.23846	.01254	.02036	.00206	.00187	.49639	.00089	.00384	.00364	.00938
#2	.00201	.22661	.01386	.01985	.00203	.00199	.50008	.00078	.00397	.00376	.00945

Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.01000								
Range			30.000%								

Elem	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04568	.40724	.45769	F .00241	.19940	W .00424	.00349	.01042	.95532	.00968	.00467
Stddev	.00302	.01997	.00322	.00209	.00159	.00000	.00008	.00026	.00404	.00001	.00057
%RSD	6.6160	4.9034	.70307	86.900	.79729	.06960	2.3540	2.4590	.42302	.13146	12.220

#1	.04782	.42136	.45541	.00093	.19828	.00424	.00355	.01060	.95247	.00967	.00427
#2	.04354	.39312	.45996	.00389	.20053	.00424	.00343	.01024	.95818	.00969	.00508

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.03000		.00300					
Range				-50.000%		30.000%					

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0086	.02017	.01643	.48229	.00927	.00510	.00483	.02190	.00480	.00986
Stddev	.0007	.00028	.00093	.00209	.00043	.00002	.00034	.00144	.00003	.00015
%RSD	7.727	1.4015	5.6666	.43316	4.6613	.40720	6.9848	6.5958	.54753	1.5079

#1	.0091	.01997	.01709	.48377	.00896	.00512	.00459	.02087	.00478	.00976
#2	.0081	.02037	.01577	.48081	.00957	.00509	.00507	.02292	.00482	.00997

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2000									
Range	-50.00%									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4702.5	7277.8	99001.	7922.0
Stddev	.6	8.2	93.	4.1
%RSD	.01331	.11236	.09421	.05236

#1	4702.0	7272.1	98935.	7924.9
#2	4702.9	7283.6	99067.	7919.1

Sample Name: ICSA-1674798 Acquired: 10/18/2013 21:56:20 Type: QC

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00000	521.37	-.00099	.00272	.00172	-.00006	467.76	.00061	-.00128	.00094	.00153	185.43
Stddev	.00042	2.74	.00403	.00069	.00001	.00000	1.46	.00019	.00011	.00013	.00025	.73
%RSD	1136900.	.52524	407.00	25.533	.51081	4.8305	.31302	30.614	8.6647	13.791	16.272	.39293

#1	-.00029	519.43	.00186	.00321	.00171	-.00006	466.73	.00074	-.00135	.00104	.00171	184.92
#2	.00029	523.31	-.00384	.00223	.00173	-.00007	468.80	.00047	-.00120	.00085	.00135	185.95

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.08648	.00491	.00119	489.76	.00111	.00102	-.00075	.08565	-.00019	.00584	-.0841	-.02098
Stddev	.02272	.00039	.00052	1.77	.00004	.00027	.00040	.00530	.00115	.00007	.0014	.00135
%RSD	26.267	7.9730	43.424	.36123	3.9261	26.391	54.181	6.1863	618.00	1.1432	1.714	6.4513

#1	-.10255	.00519	.00083	488.51	.00114	.00083	-.00046	.08190	-.00100	.00589	-.0831	-.02002
#2	-.07042	.00464	.00156	491.01	.00108	.00121	-.00103	.08940	.00062	.00579	-.0852	-.02194

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00006	.04529	.00171	.00488	.00317	.00302	-.00080	.00326
Stddev	.00204	.01774	.00109	.00014	.00004	.00697	.00019	.00041
%RSD	3619.1	39.173	63.499	2.8980	1.3966	230.57	23.598	12.542

#1	.00138	.03275	.00248	.00498	.00320	.00796	-.00067	.00297
#2	-.00150	.05784	.00094	.00478	.00314	-.00191	-.00093	.00355

Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3548.3	6468.3	85169.	7424.9
Stddev	1.7	1.3	202.	2.9
%RSD	.04920	.02002	.23671	.03858
#1	3547.0	6467.4	85312.	7426.9
#2	3549.5	6469.2	85027.	7422.8

Sample Name: ICSAB-1674815 Acquired: 10/18/2013 21:58:54 Type: QC

Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21774	505.60	.09607	.00793	.52313	.50142	465.75	1.0084	.49070	.45419	.51423	89.517
Stddev	.00100	.06	.00147	.00009	.00075	.00111	.24	.0008	.00188	.00418	.00397	.016
%RSD	.45852	.01106	1.5286	1.1317	.14399	.22222	.05177	.07666	.38234	.91995	.77216	.01761

#1	.21845	505.64	.09503	.00799	.52367	.50221	465.58	1.0089	.48937	.45715	.51703	89.505
#2	.21704	505.57	.09711	.00787	.52260	.50063	465.92	1.0079	.49203	.45124	.51142	89.528

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02496	.02183	.58767	490.41	.46017	.45080	-.00029	.07166	.95652	.04931	F .4145	.59150
Stddev	.00913	.00000	.00075	3.55	.00196	.00203	.00052	.00391	.00027	.00054	.0020	.00012
%RSD	36.567	.00117	.12686	.72487	.42514	.44998	178.25	5.4557	.02816	1.1029	.4929	.01954

#1	.01851	.02183	.58715	492.92	.46155	.45223	-.00066	.06889	.95671	.04970	.4159	.59141
#2	.03141	.02183	.58820	487.89	.45878	.44936	.00008	.07442	.95633	.04893	.4130	.59158

Check ?	None	None	None	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value											.2000	
Range											20.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05381	1.0920	.00046	.51365	.00300	.10013	.45195	.88008
Stddev	.00481	.0315	.00124	.00133	.00007	.00251	.00496	.00583
%RSD	8.9329	2.8867	268.51	.25864	2.3722	2.5059	1.0984	.66275

#1	.05041	1.1143	.00133	.51459	.00305	.10190	.45546	.88420
#2	.05721	1.0697	-.00041	.51271	.00295	.09835	.44844	.87595

Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3544.8	6504.5	86023.	7416.8
Stddev	1.1	.4	442.	7.1
%RSD	.03162	.00660	.51385	.09635
#1	3545.6	6504.8	85710.	7421.9
#2	3544.0	6504.2	86335.	7411.8

Sample Name: CCV Acquired: 10/18/2013 22:01:26 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49593	25.204	.50623	.48865	.51411	.49832	24.668	.49789	.49241	.49315	.49501	24.661
Stddev	.00105	.011	.00174	.00103	.00209	.00126	.007	.00042	.00048	.00085	.00151	.001
%RSD	.21135	.04185	.34417	.20977	.40689	.25300	.02704	.08357	.09743	.17140	.30463	.00533

#1	.49519	25.212	.50500	.48793	.51263	.49743	24.673	.49819	.49275	.49255	.49395	24.660
#2	.49667	25.197	.50746	.48938	.51559	.49922	24.664	.49760	.49207	.49375	.49608	24.662

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.461	F 29.105	.52340	24.232	.50728	.45262	.49198	25.790	.49790	.49840	25.93	.52150
Stddev	.041	.478	.00179	.001	.00072	.00013	.00070	.052	.00032	.00063	.04	.00263
%RSD	.15465	1.6425	.34151	.00543	.14131	.02955	.14291	.20202	.06338	.12557	.1382	.50510

#1	26.432	29.443	.52214	24.233	.50678	.45271	.49248	25.754	.49767	.49884	25.90	.51964
#2	26.490	28.767	.52467	24.232	.50779	.45252	.49148	25.827	.49812	.49796	25.95	.52336

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25.000										
Range		10.000%										

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49389	24.618	.49038	.50285	.48825	.50614	.48238	.48488
Stddev	.00266	.092	.00030	.00101	.00120	.00024	.00129	.00110
%RSD	.53807	.37545	.06144	.20011	.24489	.04646	.26781	.22770

#1	.49201	24.553	.49060	.50214	.48740	.50598	.48146	.48410
#2	.49577	24.684	.49017	.50357	.48909	.50631	.48329	.48566

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4393.6	7200.3	96281.	7885.2
Stddev	4.0	7.5	17.	2.3
%RSD	.09001	.10349	.01719	.02902
#1	4396.4	7205.6	96269.	7883.5
#2	4390.8	7195.0	96292.	7886.8

Sample Name: CCB Acquired: 10/18/2013 22:03:48 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00023	.00202	.00111	.00021	-0.00006	-0.00007	-0.00191	-0.00017	-0.00010	.000005	-0.00057	-0.00594
Stddev	.00015	.03098	.00085	.00031	.00000	.00003	.00070	.00008	.00002	.00024	.00000	.00075
%RSD	66.729	1534.3	76.515	148.03	2.0454	39.168	36.655	48.350	19.690	523.72	.17467	12.595

#1	-0.00012	.02392	.00171	.00043	-0.00006	-0.00005	-0.00141	-0.00023	-0.00009	.00022	-0.00057	-0.00647
#2	-0.00034	-.01988	.00051	-0.00001	-0.00006	-0.00009	-0.00240	-0.00011	-0.00012	-0.00013	-0.00058	-0.00541

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.08860	-0.00123	-0.00066	.00110	-0.00006	-0.00054	.00025	-0.00762	-0.00018	.00063	F .0114	.00095
Stddev	.02195	.00032	.00036	.00110	.00001	.00045	.00023	.00430	.00023	.00017	.0030	.00061
%RSD	24.771	25.997	55.121	100.23	19.086	83.668	90.392	56.436	132.78	26.510	26.31	63.993

#1	-.10412	-.00101	-.00040	.00032	-0.00007	-0.00022	.00009	-.01066	-.00034	.00051	.0135	.00052
#2	-.07308	-.00146	-.00091	.00188	-0.00005	-0.00086	.00041	-.00458	-0.00001	.00075	.0093	.00138

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00332	-0.01374	.00012	.00001	-0.00000	.00164	.00003	.00034
Stddev	.00178	.01747	.00013	.00013	.00023	.00144	.00001	.00024
%RSD	53.583	127.17	103.21	953.57	14158.	87.558	28.362	71.070

#1	.00206	-.02609	.00003	-0.00008	.00016	.00063	.00004	.00052
#2	.00458	-.00138	.00021	.00011	-0.00016	.00266	.00003	.00017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4719.3	7270.0	99300.	7869.0
Stddev	1.3	4.9	264.	100.9
%RSD	.02836	.06736	.26565	1.2821
#1	4720.2	7273.5	99487.	7797.6
#2	4718.4	7266.6	99114.	7940.3

Sample Name: CCV Acquired: 10/18/2013 22:06:13 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48996	24.883	.50534	.48728	.51033	.49775	24.302	.49814	.49077	.48376	.48565	24.467
Stddev	.00041	.091	.00212	.00067	.00017	.00124	.006	.00171	.00075	.00143	.00056	.049
%RSD	.08403	.36492	.41972	.13760	.03384	.24952	.02666	.34388	.15333	.29517	.11434	.19935

#1	.48967	24.947	.50684	.48776	.51021	.49862	24.306	.49693	.49131	.48275	.48525	24.502
#2	.49026	24.818	.50384	.48681	.51045	.49687	24.297	.49936	.49024	.48477	.48604	24.433

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	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.120	F 28.180	.51928	24.035	.50349	.45025	.49148	25.298	.50009	.49873	26.35	.52146
Stddev	.028	.122	.00245	.025	.00046	.00098	.00156	.024	.00038	.00220	.13	.00050
%RSD	.10578	.43295	.47192	.10565	.09191	.21685	.31712	.09476	.07528	.44108	.5019	.09648

#1	26.140	28.266	.52102	24.018	.50316	.44956	.49037	25.315	.49982	.50028	26.25	.52182
#2	26.100	28.093	.51755	24.053	.50381	.45094	.49258	25.281	.50035	.49717	26.44	.52111

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25.000										
Range		10.000%										

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49146	24.255	.48230	.50307	.48497	.50965	.47280	.47703
Stddev	.00081	.009	.00001	.00146	.00175	.00071	.00227	.00140
%RSD	.16562	.03830	.00129	.29114	.36123	.13897	.47966	.29274

#1	.49088	24.248	.48230	.50410	.48373	.50915	.47120	.47604
#2	.49204	24.261	.48231	.50203	.48621	.51015	.47440	.47801

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4389.7	7206.7	97291.	8008.9
Stddev	.4	17.9	324.	.1
%RSD	.01015	.24892	.33326	.00126
#1	4390.0	7219.4	97520.	8008.9
#2	4389.4	7194.0	97061.	8008.8

Sample Name: CCB Acquired: 10/18/2013 22:08:34 Type: QC
Method: ICAP1(v459) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00011	.01539	.00140	.00064	-.00006	-.00007	-.00024	-.00013	-.00012	-.00010	-.00067	-.00908
Stddev	.00029	.00193	.00081	.00005	.00001	.00000	.00123	.00002	.00002	.00033	.00017	.00040
%RSD	276.68	12.557	58.124	8.1901	16.955	5.8229	502.56	18.510	14.445	345.68	26.116	4.3660

#1	.00031	.01402	.00082	.00067	-.00005	-.00007	.00062	-.00015	-.00011	.00014	-.00055	-.00936
#2	-.00010	.01676	.00198	.00060	-.00006	-.00006	-.00111	-.00011	-.00014	-.00033	-.00079	-.00880

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												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00342	-.00078	-.00055	.00000	-.00008	-.00010	.00033	-.00146	-.00015	.00004	F .0086	.00046
Stddev	.03897	.00031	.00096	.00088	.00001	.00060	.00020	.00171	.00006	.00027	.0010	.00084
%RSD	1138.5	39.114	175.35	44655.	14.880	613.36	59.137	117.58	42.547	689.35	12.02	182.45

#1	-.03098	-.00057	.00013	.00063	-.00009	.00033	.00019	-.00025	-.00020	.00023	.0079	.00106
#2	.02413	-.00100	-.00122	-.00062	-.00007	-.00052	.00047	-.00267	-.00011	-.00015	.0093	-.00013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00088	.02166	-.00031	.00015	-.00001	.00019	.00007	.00023
Stddev	.00160	.00058	.00025	.00018	.00021	.00061	.00022	.00000
%RSD	182.35	2.6583	80.587	122.49	2852.0	317.73	327.71	2.0314

#1	-.00025	.02125	-.00013	.00028	-.00016	-.00024	-.00009	.00023
#2	.00201	.02206	-.00048	.00002	.00014	.00063	.00022	.00023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4719.9	7266.7	99343.	7901.6
Stddev	9.4	.2	336.	12.7
%RSD	.19834	.00292	.33848	.16113
#1	4726.5	7266.8	99105.	7892.6
#2	4713.2	7266.5	99580.	7910.6

WinHg Database 1.1

File Utility Help

RN↓ RN↑ ?

Protocol hgppb Dataset/Proto H10163W1/hgppb

Protocol Line info Cal Curve Report Ctrl Chart Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.39916e-5

C -3.41123e-2

rho .999996

Type

Calibrated

Accepted

Accept

Rel. Abs. 716484

Accepted

New

Conc. 10.0

Include S6 Rep 1 ☒ 2 ☒ 3 ☒ 4 ☒ 5 ☒

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.014	-.014	1432	220	1467	1631	1195
02	.20000	.197	-.003	16483	2.36%	16167	16362	16918
03	1.0000	1.01	.005	74280	0.58%	74362	73814	74663
04	2.0000	2.01	.007	145869	0.36%	145745	146448	145417
05	5.0000	5.01	.015	360858	0.43%	361775	359049	361749
06	10.000	9.99	-.009	716484	0.05%	716456	716171	716827

Ready

CAP NUM

L2

10/16/13

145305

Cal: H10163C1

Rw: H10163W1

Batches: 145278

145279

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Check Standard: 2 Ck2ICV Seq: 1 11:46:41 16 Oct 13 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		97.8	2.93	3.00	ppb	.000		
*** Check Standard: 1 Ck1ICB Seq: 2 11:48:49 16 Oct 13 HG								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.003	.200	ppb	.000			
*** Check Standard: 4 Ck4ICV Seq: 3 11:50:48 16 Oct 13 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		108.	.216	.200	ppb	.000		
*** Check Standard: 3 Ck3CCV Seq: 4 11:52:24 16 Oct 13 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		96.9	1.94	2.00	ppb	.000		
*** Check Standard: 1 Ck1CCB Seq: 5 11:54:10 16 Oct 13 HG								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.015	.200	ppb	.000			
*** Sample ID: Seq: 6 11:55:44 16 Oct 13 HG								
mb 480-145278/1-a								
Hg	-.062	ppb	.000	-.062				
*** Sample ID: Seq: 7 11:57:38 16 Oct 13 HG								
lcs 480-145278/2-a								
Hg	3.91	ppb	.000	3.91				
*** Sample ID: Seq: 8 11:59:35 16 Oct 13 HG								
480-47997-a-1-a								
Hg	-.079	ppb	.000	-.079				
*** Sample ID: Seq: 9 12:01:10 16 Oct 13 HG								
480-48004-a-1-a								
Hg	-.001	ppb	.000	-.001				
*** Sample ID: Seq: 10 12:02:48 16 Oct 13 HG								
480-47990-g-1-b								
Hg	-.080	ppb	.000	-.080				
*** Sample ID: Seq: 11 12:04:23 16 Oct 13 HG								
480-47990-e-2-b								
Hg	.010	ppb	.000	.010				
*** Sample ID: Seq: 12 12:06:09 16 Oct 13 HG								
480-47990-e-3-b								
Hg	-.046	ppb	.000	-.046				
*** Sample ID: Seq: 13 12:07:46 16 Oct 13 HG								
480-47990-g-4-b								
Hg	.000	ppb	.000	.000				
*** Sample ID: Seq: 14 12:09:22 16 Oct 13 HG								
480-47990-g-6-b								
Hg	.040	ppb	.000	.040				
*** Sample ID: Seq: 15 12:11:21 16 Oct 13 HG								
480-47990-g-7-b								
Hg	-.004	ppb	.000	-.004				

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 12:12:56 16 Oct 13 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		101.	2.02	2.00	ppb	.000		
*** Check Standard: 1 Ck1CCB Seq: 17 12:14:43 16 Oct 13 HG								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.002	.200	ppb	.000			
*** Sample ID: Seq: 18 12:16:29 16 Oct 13 HG								
			480-47990-g-8-d					
Hg	.028	ppb	.000	.028				
*** Sample ID: Seq: 19 12:18:04 16 Oct 13 HG								
			480-47990-g-8-d					
Hg	-.007	ppb	.000	-.007				
*** Sample ID: Seq: 20 12:19:52 16 Oct 13 HG								
			480-47990-g-8-e ms					
Hg	<u>3.92</u>	ppb	.000	3.92				
*** Sample ID: Seq: 21 12:21:49 16 Oct 13 HG								
			480-47990-g-8-f msd					
Hg	<u>3.87</u>	ppb	.000	3.87				
*** Sample ID: Seq: 22 12:23:54 16 Oct 13 HG								
			480-47990-g-9-b					
Hg	-.005	ppb	.000	-.005				
*** Sample ID: Seq: 23 12:25:30 16 Oct 13 HG								
			480-47992-d-9-b					
Hg	-.000	ppb	.000	-.000				
*** Sample ID: Seq: 24 12:27:08 16 Oct 13 HG								
			480-47992-d-10-b					
Hg	.061	ppb	.000	.061				
*** Sample ID: Seq: 25 12:28:54 16 Oct 13 HG								
			480-47992-d-11-b					
Hg	-.002	ppb	.000	-.002				
*** Sample ID: Seq: 26 12:30:32 16 Oct 13 HG								
			480-47992-d-12-b					
Hg	.002	ppb	.000	.002				
*** Sample ID: Seq: 27 12:32:21 16 Oct 13 HG								
			480-47992-d-13-b					
Hg	-.036	ppb	.000	-.036				
*** Check Standard: 3 Ck3CCV Seq: 28 12:34:41 16 Oct 13 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		103.	2.05	2.00	ppb	.000		
*** Check Standard: 1 Ck1CCB Seq: 29 12:36:19 16 Oct 13 HG								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.045	.200	ppb	.000			
*** Sample ID: Seq: 30 12:37:54 16 Oct 13 HG								
			480-47918-e-1-b					
Hg	-.005	ppb	.000	-.005				

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: Seq: 31 12:39:41 16 Oct 13 HG								
				480-47918-e-2-b				
Hg	-.078	ppb	.000	-.078				
*** Sample ID: Seq: 32 12:41:16 16 Oct 13 HG								
				480-47918-e-3-b				
Hg	-.013	ppb	.000	-.013				
*** Sample ID: Seq: 33 12:42:53 16 Oct 13 HG								
				480-47922-p-1-b				
Hg	-.008	ppb	.000	-.008				
*** Sample ID: Seq: 34 12:44:33 16 Oct 13 HG								
				mb 480-145279/1-a				
Hg	-.006	ppb	.000	-.006				
*** Sample ID: Seq: 35 12:46:10 16 Oct 13 HG								
				lcs 480-145279/2-a				
Hg	3.92	ppb	.000	3.92				
*** Sample ID: Seq: 36 12:47:59 16 Oct 13 HG								
				480-47917-d-1-d				
Hg	-.022	ppb	.000	-.022				
*** Sample ID: Seq: 37 12:49:36 16 Oct 13 HG								
				480-47936-e-4-b				
Hg	.022	ppb	.000	.022				
*** Sample ID: Seq: 38 12:51:13 16 Oct 13 HG								
				480-47938-a-1-b				
Hg	-.072	ppb	.000	-.072				
*** Sample ID: Seq: 39 12:52:49 16 Oct 13 HG								
				480-47938-a-2-b				
Hg	-.009	ppb	.000	-.009				
*** Check Standard: 3 Ck3CCV Seq: 40 12:54:26 16 Oct 13 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		99.2	1.98	2.00	ppb	.000		
*** Check Standard: 1 Ck1CCB Seq: 41 12:56:11 16 Oct 13 HG								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.009	.200	ppb	.000			
*** Sample ID: Seq: 42 12:57:58 16 Oct 13 HG								
				480-47938-a-3-b				
Hg	.065	ppb	.000	.065				
*** Sample ID: Seq: 43 12:59:45 16 Oct 13 HG								
				480-47938-a-4-b				
Hg	.002	ppb	.000	.002				
*** Sample ID: Seq: 44 13:01:25 16 Oct 13 HG								
				480-47938-a-5-b				
Hg	.010	ppb	.000	.010				
*** Sample ID: Seq: 45 13:03:01 16 Oct 13 HG								
				480-47938-a-6-b				
Hg	-.073	ppb	.000	-.073				

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 46		13:04:39	16 Oct 13	HG
				480-47938-a-7-d				
Hg	-.011	ppb	.000	-.011				
*** Sample ID:				Seq: 47		13:06:26	16 Oct 13	HG
				480-47938-a-7-d				
Hg	-.047	ppb	.000	-.047				
*** Sample ID:				Seq: 48		13:08:02	16 Oct 13	HG
				480-47938-a-7-e ms				
Hg	3.83	ppb	.000	3.83				
*** Sample ID:				Seq: 49		13:09:49	16 Oct 13	HG
				480-47938-a-7-f msd				
Hg	3.91	ppb	.000	3.91				
*** Sample ID:				Seq: 50		13:11:29	16 Oct 13	HG
				480-47938-a-8-b				
Hg	-.066	ppb	.000	-.066				
*** Sample ID:				Seq: 51		13:13:17	16 Oct 13	HG
				480-47938-a-9-b				
Hg	-.003	ppb	.000	-.003				
*** Check Standard: 3	Ck3CCV			Seq: 52		13:14:53	16 Oct 13	HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		94.6	1.89	2.00	ppb	.000		
*** Check Standard: 1	Ck1CCB			Seq: 53		13:16:40	16 Oct 13	HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.027	.200	ppb	.000			
*** Sample ID:				Seq: 54		13:18:26	16 Oct 13	HG
				480-47974-e-1-b				
Hg	-.008	ppb	.000	-.008				
*** Sample ID:				Seq: 55		13:20:07	16 Oct 13	HG
				480-47974-e-2-b				
Hg	-.004	ppb	.000	-.004				
*** Sample ID:				Seq: 56		13:21:47	16 Oct 13	HG
				480-47974-e-3-b				
Hg	.013	ppb	.000	.013				
*** Sample ID:				Seq: 57		13:23:28	16 Oct 13	HG
				480-47974-e-4-b				
Hg	-.031	ppb	.000	-.031				
*** Sample ID:				Seq: 58		13:25:10	16 Oct 13	HG
				480-47974-e-5-b				
Hg	-.028	ppb	.000	-.028				
*** Sample ID:				Seq: 59		13:26:55	16 Oct 13	HG
				480-47974-e-6-d				
Hg	-.074	ppb	.000	-.074				
*** Sample ID:				Seq: 60		13:28:41	16 Oct 13	HG
				480-47974-e-6-dSD@5				
Hg	-.019	ppb	.000	-.019				

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: Seq: 61 13:30:38 16 Oct 13 HG								
480-47974-e-6-e ms								
Hg	3.92	ppb	.000	3.92				
*** Sample ID: Seq: 62 13:32:16 16 Oct 13 HG								
480-47974-e-6-f msd								
Hg	3.90	ppb	.000	3.90				
*** Sample ID: Seq: 63 13:34:04 16 Oct 13 HG								
480-47974-e-7-b								
Hg	.008	ppb	.000	.008				
*** Check Standard: 3 Ck3CCV Seq: 64 13:35:52 16 Oct 13 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		98.1	1.96	2.00	ppb	.000		
*** Check Standard: 1 Ck1CCB Seq: 65 13:37:37 16 Oct 13 HG								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		.003	.200	ppb	.000			
*** Sample ID: Seq: 66 13:39:18 16 Oct 13 HG								
480-47974-e-8-b								
Hg	-.076	ppb	.000	-.076				
*** Sample ID: Seq: 67 13:40:55 16 Oct 13 HG								
480-47974-e-9-b								
Hg	-.030	ppb	.000	-.030				
*** Check Standard: 4 Ck4CCVL Seq: 68 13:42:41 16 Oct 13 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		122.	.245	.200	ppb	.000		
*** Check Standard: 3 Ck3CCV Seq: 69 13:44:16 16 Oct 13 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		97.7	1.95	2.00	ppb	.000		
*** Check Standard: 1 Ck1CCB Seq: 70 13:45:52 16 Oct 13 HG								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.021	.200	ppb	.000			

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Batch Number: 145224 Batch Start Date: 10/16/13 08:45 Batch Analyst: Dwyer, Nicole M

Batch Method: 3005A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00035	MED_01_W1 00015	MED_02_W2 00014	MED_03_Ag 00041
MB 480-145224/1		3005A, 6010C		50 mL	50 mL				
LCS 480-145224/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-47938-A-1	MW-5	3005A, 6010C	T	50 mL	50 mL				
480-47938-A-2	MW-4	3005A, 6010C	T	50 mL	50 mL				
480-47938-A-3	MW-3D	3005A, 6010C	T	50 mL	50 mL				
480-47938-A-4	MW-2	3005A, 6010C	T	50 mL	50 mL				
480-47938-A-5	MW-7	3005A, 6010C	T	50 mL	50 mL				
480-47938-A-6	MW-8	3005A, 6010C	T	50 mL	50 mL				
480-47938-A-7	MW-6	3005A, 6010C	T	50 mL	50 mL				
480-47938-A-7 MS	MW-6	3005A, 6010C	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-47938-A-7 MSD	MW-6	3005A, 6010C	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-47938-A-8	MW-1R	3005A, 6010C	T	50 mL	50 mL				
480-47938-A-9	MW-X	3005A, 6010C	T	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00034	MED_05_S 00003				
MB 480-145224/1		3005A, 6010C							
LCS 480-145224/2		3005A, 6010C		0.25 mL	0.25 mL				
480-47938-A-1	MW-5	3005A, 6010C	T						
480-47938-A-2	MW-4	3005A, 6010C	T						
480-47938-A-3	MW-3D	3005A, 6010C	T						
480-47938-A-4	MW-2	3005A, 6010C	T						
480-47938-A-5	MW-7	3005A, 6010C	T						
480-47938-A-6	MW-8	3005A, 6010C	T						
480-47938-A-7	MW-6	3005A, 6010C	T						
480-47938-A-7 MS	MW-6	3005A, 6010C	T	0.25 mL	0.25 mL				
480-47938-A-7 MSD	MW-6	3005A, 6010C	T	0.25 mL	0.25 mL				
480-47938-A-8	MW-1R	3005A, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6010C

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Batch Number: 145224 Batch Start Date: 10/16/13 08:45 Batch Analyst: Dwyer, Nicole MBatch Method: 3005A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00034	MED_05_S 00003				
480-47938-A-9	MW-X	3005A, 6010C	T						

Batch Notes	
First End time	1145
Hydrochloric Acid Reagent ID Number	0000040272
Nitric Acid Reagent ID Number	0000050770
Hood ID or number	D
Oven, Bath or Block Temperature 1	97.9 Degrees C
Oven, Bath or Block Temperature 2	97.8 Degrees C
Pipette ID	MDL-3
First Start time	0845
ID number of the thermometer	111404336
Digestion Tube/Cup Lot #	1303205
Uncorrected Temperature	96.9 Degrees C
Uncorrected Temperature 2	96.8 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6010C

Page 2 of 2

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Batch Number: 145279 Batch Start Date: 10/16/13 08:55 Batch Analyst: Kacalski, Jason RBatch Method: 7470A Batch End Date: 10/16/13 10:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00474			
MB 480-145279/1		7470A, 7470A		30 mL	50 mL				
LCS 480-145279/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-47938-A-1	MW-5	7470A, 7470A	T	30 mL	50 mL				
480-47938-A-2	MW-4	7470A, 7470A	T	30 mL	50 mL				
480-47938-A-3	MW-3D	7470A, 7470A	T	30 mL	50 mL				
480-47938-A-4	MW-2	7470A, 7470A	T	30 mL	50 mL				
480-47938-A-5	MW-7	7470A, 7470A	T	30 mL	50 mL				
480-47938-A-6	MW-8	7470A, 7470A	T	30 mL	50 mL				
480-47938-A-7	MW-6	7470A, 7470A	T	30 mL	50 mL				
480-47938-A-7 MS	MW-6	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-47938-A-7 MSD	MW-6	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-47938-A-8	MW-1R	7470A, 7470A	T	30 mL	50 mL				
480-47938-A-9	MW-X	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	1560425
Batch Comment	Cal Batch; 145305
Sulfuric Acid Lot Number	1509322
Lot # of Nitric Acid	1566274
Hot Block ID number	Hg-C
Potassium Persulfate Lot Number	1589280
Potassium Permanganate Lot Number	1589260
Oven, Bath or Block Temperature 1	95.0 Celsius
Pipette ID	HGL-5
Stannous Chloride Lot Number	1642928
ID number of the thermometer	S/N52507
Digestion Tube/Cup Lot #	1303205
Uncorrected Temperature	94.0 Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

7470A

Page 1 of 2

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-47938-1

SDG No.: _____

Batch Number: 145279 Batch Start Date: 10/16/13 08:55 Batch Analyst: Kacalski, Jason RBatch Method: 7470A Batch End Date: 10/16/13 10:55

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

7470A

Page 2 of 2

Shipping and Receiving Documents

Chain of Custody Record

Client Information		Sampler: <i>ELIAS</i> <i>WOS/KAR</i>		Lab PM: Hoffman, Sally J		Carrier Tracking No(s)		COC No: 480-40230-10671.1	
Client Contact: Mr. Jeremy Wyckoff		Phone: 518-250-7333		E-Mail: sally.hoffman@testamericainc.com				Page: Page 1 of 1	
Company: Malcolm Pirnie, Inc. Invoice to Arcadis								Job #:	
Address: 855 Route 146 Suite 210									
City: Clifton Park									
State, Zip: NY, 12065									
Phone: 518-250-7300									
Email: jeremy.wyckoff@arcadis-us.com									
Project Name: NYSDEC-Standby TIOGA CASTINGS									
Site:									
Due Date Requested:									
TAT Requested (days):									
STANDARD									
PO #:									
Project 00266362.000									
WO #:									
Contract D004439									
Project #:									
48006187									
SSOW#:									
Analysis Requested									
Preservation Codes:									
A - HCL									
M - Hexane									
N - None									
B - NaOH									
O - AsNaO2									
C - Zn Acetate									
D - Nitric Acid									
P - Na2O4S									
E - NaHSO4									
F - MeOH									
R - Na2S2O3									
S - H2SO4									
G - Amchlor									
H - Ascorbic Acid									
I - Ice									
U - Acetone									
J - DI Water									
V - MCAA									
K - EDTA									
L - EDA									
Z - other (specify)									
Other:									
Special Instructions/Note:									
Total Number of containers									
Field Filtered Sample (Yes or No)									
Perform MS/MSD (Yes or No)									
6010C, 7470A									
Sample Identification									
Sample Date									
Sample Time									
Sample Type (C=Comp, G=grab)									
Matrix (W=water, S=solid, O=wasteoil, BT=Tris, AA=As)									
Preservation Code									
MW-5		10/14/13		1200		G		Water	
MW-4		10/14/13		1210		G		Water	
MW-3D		10/14/13		1245		G		Water	
MW-2		10/14/13		1255		G		Water	
MW-7		10/14/13		1345		G		Water	
MW-8		10/14/13		1355		G		Water	
MW-6		10/14/13		1440		G		Water	
MW-6 WS		10/14/13		1440		G		Water	
MW-6 MSD		10/14/13		1440		G		Water	
MW-1R		10/14/13		1445		G		Water	
MW-X		10/14/13		1		G		Water	
Possible Hazard Identification									
Non-Hazard									
Flammable									
Skin Irritant									
Poison B									
Unknown									
Radiological									
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:									
Relinquished by:									
Relinquished by:									
Relinquished by:									
Custody Seals Intact:									
Custody Seal No.:									
Δ Yes Δ No									
Special Instructions/QC Requirements:									
Return To Client									
Disposal By Lab									
Archive For									
Months									
Method of Shipment:									
Received by:									
Date/Time:									
Received by:									
Date/Time:									
Received by:									
Date/Time:									
Cooler Temperature(s) °C and Other Remarks:									
# 2 3.4									

Login Sample Receipt Checklist

Client: Malcolm Pirnie, Inc. Invoice to Arcadis

Job Number: 480-47938-1

Login Number: 47938

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

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.	False	No: COC not relinquished
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



Appendix G

NYSDEC Site Certification Forms



Enclosure 1
Engineering Controls - Standby Consultant/Contractor Certification Form



Site No. 754012 Site Details Box 1

Site Name Tioga Casting Facilities

Site Address: Foundry Street Zip Code: 13827
City/Town: Owego
County: Tioga
Site Acreage: 1.0

Reporting Period: January 29, 2011 to December 30, 2013

	YES	NO
1. Is the information above correct?	☒	☐

If NO, include handwritten above or on a separate sheet.

2. To your knowledge has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. To your knowledge has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. To your knowledge have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. To your knowledge is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.

Signature of Standby Consultant/Contractor

Date

SITE NO. 754012

Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

128.07-2-7

John Sweet III

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction

O&M Plan
IC/EC Plan
Monitoring Plan
Site Management Plan

As per the Record of Decision, signed March 20, 1995, the remedy required consolidation of contaminated soils into a landfill at the western edge of the property. The landfill was properly closed and capped with a synthetic liner. Then the landfill was encompassed with a perimeter fence.

Institutional Controls include: An Environmental Notice which includes restrictions on land use and groundwater use, and compliance with a site management plan that details the operation, maintenance, monitoring and reporting that is required at the site.

Box 4

Description of Engineering Controls

Parcel

Engineering Control

128.07-2-7

Cover System
Fencing/Access Control

Engineering Controls include: Perimeter fence, cap, monitoring well network.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification, including data and material prepared by previous contractors for the current certifying period, if any;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO
☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) nothing has occurred that would constitute a failure to comply with the Site Management Plan, or equivalent if no Site Management Plan exists.

YES NO
☒ ☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.

Signature of Standby Consultant/Contractor

Date

IC/EC CERTIFICATIONS

Box 6

Professional Engineer Signature

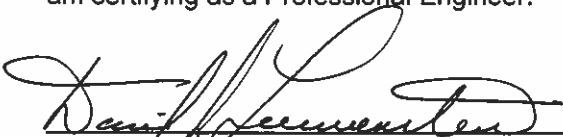
I certify that all information in Boxes 2 through 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I DANIEL LOEWENSTEIN at MAZZUCCHI PIRNIE, INC.
print name

855 ROUTE 14C, SUITE 210

CLIFTON PARK, NY 12005
(print business address)

am certifying as a Professional Engineer.


Signature of Professional Engineer



Date