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Memorandum

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Subject	**2018 Sediment Monitoring Report**
Project Name	Tyco Fire Products LP Facility, Marinette, Wisconsin
Attention	Tyco Fire Products LP
From	Jacobs Engineering Group Inc. (Jacobs)
Date	September 28, 2018
Document Control No.	704683.262

1. Introduction

This memorandum describes the sediment monitoring activities conducted within the Menominee River adjacent to the Tyco Fire Products LP (Tyco) site from July 8 to July 11, 2018. The following sections summarize the sampling objectives, sample collection and processing methods and results, and general observations with respect to field conditions. The following tables, figures, and appendices are included as part of this sampling summary:

- Table 1, Summary of Sediment Sample Locations and Field and Laboratory Data
- Figure 1, Sample Locations and Total Arsenic Concentrations
- Figure 2, Sediment Thickness
- Attachment 1, Core Logs
- Attachment 2, Data Quality Review and Laboratory Report

2. Sampling Objectives

A brief site history and a detailed discussion of the sampling objectives are presented in the *Revised Barrier Wall Groundwater Monitoring Plan Update* (CH2M HILL [CH2M] 2015a). Figure 1 includes the sample locations and location identification numbers used in this investigation. Table 1 lists the samples collected and analyzed. The investigation objective was to collect post-dredging accumulated soft sediment samples to determine if post-dredging accumulated soft sediment contains total arsenic exceeding the 20 milligrams per kilogram (mg/kg) cleanup goal[1].

The sampling rationale was to collect a sample with 70% recovery from the predetermined sampling location by “sampling to refusal.” If 70% recovery was not achieved after two attempts, a third attempt with a Ponar surface grab sampler would be deployed to collect a surface sediment sample. If the Ponar surface grab sample yielded no recovery, the vessel was repositioned to an offset location within 70 feet of the initial sample for a second attempt as described above. If the offset location yielded no recovery, the sample location would be eliminated.

[1] Post-dredging accumulated soft sediments were identified in the field using known conditions following dredging activities, including soft sediments removed within the dredged area and/or the presence of sand cover below the soft sediment in the vibracore samples.

A total of 18 sampling locations were proposed for sampling and resulted as follows:

- Two locations (SD-12 and SD-17) had sediment thickness recovered in the core during the first attempt, and the sample was collected from the core.
- Nine locations (SD-04, SD-08, SD-09, SD-10, SD-11, SD-13, SD-14, SD-15, and SD-16), had sediment thickness recovered in the core during the first attempt but required additional volume via Ponar to collect a sample.
- Two locations had no core recovery (SD-06 and SD-18) but were able to collect a sediment sample volume via Ponar.
- Two locations (SD-02 and SD-03) had core recovery on the first attempt, however, no accumulated sediment was present in the core to sample and no samples were collected.
- Three locations (SD-01, SD-05, and SD-07) yielded no recovery after two vibracore attempts and one subsequent Ponar attempt at the initial proposed sampling location. Offset locations (identified as "B" in their respective sample identifications) were then attempted and recovery was obtained. Two of these locations had sediment present that was sampled (SD-05B via the core and SD-07B via Ponar), and one (SD-01B) had no sediment thickness to sample, thus no sample was collected.

3. Sediment Sample Collection

Affiliated Researchers, LLC (AR) of East Tawas, Michigan, performed the sediment collection activities. AR mobilized on July 8, 2018, to set up its vibracore vessel and survey base stations. Sediment sampling commenced July 9, 2018 and concluded July 10, 2018. AR's vibracore vessel consisted of a 20-foot pontoon boat with a 15-foot vertical tri-frame hoist and Rossfelder P-3 underwater vibracore system outfitted with 8-foot-long, 3-inch-diameter polycarbonate cores.

Locating each predetermined target sample location was done using the global positioning system (GPS) on-board the pontoon vessel by AR and verified by Jacobs. Once the vessel was positioned on a target station, manual sounding pole methods were used to determine the water depth (bathymetry) and approximate sediment thickness (where possible) at each sampling location. If collected, sediment thickness data were used to estimate the amount of achievable sediment sample at each location and aid in selecting an appropriate length of vibracore core tube.

Vibracores were collected using AR's vibracore apparatus following its approved standard operating procedure. The cores were capped, sealed, labeled, and transferred to an onshore processing crew for characterization and analytical sample collection.

When required (no vibracore recovery or limited sediment thickness), grab samples were collected using a Ponar sampler with a 6-inch by 9-inch opening. The grab sample was removed to a clean, single-use, disposable aluminum tray and transferred to an onshore processing crew for characterization and analytical sample collection.

Table 1 summarizes the field data (for example, as-sampled coordinates, water elevation, water depths, and sediment thickness), and Figure 1 shows the as-sampled locations. Attachment 1 includes the core logs.

3.1 Sediment Sample Processing

After collection, the cores were cut into sections of a manageable length for handling and transport from the sampling barge to the onshore core processing team. The cores were transferred frequently throughout the day to the processing team.

The core from each location was split lengthwise using an electric slot cutter, and then photographed and described with respect to stratigraphy, sediment type, apparent grain size, color, odor, and other notable characteristics. Core logs were compiled by Jeff Danko of Tyco/Johnson Controls.

After the core characterization was complete, the core was sectioned to isolate, if present, the soft sediment layer and subsequent 0.5-foot intervals. Sediment from each sample interval was transferred to a dedicated aluminum pan and homogenized until a uniform texture and color were achieved. Sediment directly in contact with the catcher was not included in the material that was homogenized and submitted for analytical testing.

The homogenized sediment was then transferred to the laboratory-specified containers, labeled, and bagged for shipment to TestAmerica in Chicago, Illinois. Upon collection, samples were held on ice. Samples collected for total arsenic from the soft sediment layer, if present, were scheduled for immediate laboratory analysis. Subsequent total arsenic samples collected from underlying stratigraphic layers other than soft sediment were sent to the laboratory "on hold."

Quality assurance/quality control sample collection for the sediment samples was conducted in accordance with the protocols and frequency established within the approved *Confirmation Sampling Plan Quality Assurance Project Plan* submitted on July 24, 2012 (CH2M 2012).

3.2 Survey

AR conducted the survey control in US Survey Feet using North American Datum of 1983, Central Wisconsin State Plane, for the horizontal datum and North American Vertical Datum of 1988 for the vertical datum. AR used a Trimble SPS855 real-time kinematic (RTK) GPS for the onsite base station and a Trimble R10 RTK GPS for onboard readout and data logging. Onsite control points CP-100 and CP-522 were used as reference for the survey base station. AR met the 3-foot horizontal and 0.1-foot vertical tolerances specified in the *Revised Barrier Wall Groundwater Monitoring Plan Update* (CH2M 2015a) and was able to position the vessel within the 10-foot radius tolerance. Jacobs personnel used a Trimble Geo-XH 6000 uploaded with the predetermined sample locations to provide sample location (and nomenclature) quality assurance.

4. Field Observations, Field Changes, and Challenges

The main challenge during the field event was "coring to refusal." After using the manual sounding pole methods and vibracoring to refusal at the first location (SD-18), the vibracore appeared to be advancing into presumed semi-consolidated material or glacial till and trapping the core. Upon retracting the vibracore, the core was unyielding, and the bow of the vessel started listing into the water. After numerous attempts at pulling the vibracore from the sediment column, the core finally broke away from the vibracore head. After repeating this process two times, it was determined to be an unsafe sampling approach because the bow of the boat was listing into the water, and the sampling equipment, particularly the winch and Kevlar ropes, were being strained beyond normal operation conditions.

After discussing the situation with AR and Tyco, it was decided to advance the vibracore 2 to 3 feet to capture soft sediment and the sand layer, if present. It was determined that capturing the soft sediment column was more important than total recovery, as recovery was at the expense of the deeper native materials and not the soft sediments, if present, at the top of the sediment column.

In addition, when sample locations were in water deeper than 15 feet, the depths to sediment and currents encountered caused the sounding pole to flex, resulting in amplified sediment thickness (used to estimate the amount of achievable sediment sample at each location and aid in selecting an appropriate length of vibracore core tube) and depth-to-water readings. Furthermore, in water deeper than 20 feet, AR was uncomfortable using the sounding pole in fear of snapping the rod. No initial estimate of sediment thickness was collected at these depths, and in lieu of the sounding pole, a probing anchor was deployed for water depth measurements, and an onboard electronic depth finder was used for quality assurance.

5. EPA Split Sample Collection

Matt Villicana of Tetra Tech collected split samples on behalf of U.S. Environmental Protection Agency (EPA). EPA had indicated it would be collecting split samples at the bottom 0.5-foot sediment interval;

however, the EPA representative instead collected the bottom 0.5-foot interval of the core length, regardless of stratigraphy. The bottom of the core was not always sediment, and the sample interval and matrix collected by the EPA representative is indicated in Table 1.

6. Results

Sediment thickness ranged from 0 to 1.0 foot thick. Most locations were 0.5 foot or less with only two locations greater than 0.5 foot. Arsenic concentrations ranged from 1.7 to 380 mg/kg. Five locations (SD-05B, SD-06, SD-09, SD-11, and SD-18) exceeded the 20 mg/kg cleanup criterion. Table 1 summarizes the sediment thickness and arsenic results. Figures 1 and 2 present the sediment arsenic and thickness results, respectively. Attachment 2 includes the data quality review and laboratory data report.

7. Summary and Conclusions

Sediment samples were collected from either primary or offsets at 15 of the 18 sample locations. Three locations were not sampled because there no sediment thickness was recovered during the primary or offset core locations. Despite some challenges in the field, the objectives of this sampling event were met, and soft sediment samples were collected where present.

Ten locations were below the 20 mg/kg final cleanup criterion. Of the five locations that exceeded the sediment cleanup criterion of 20 mg/kg, four were in the Turning Basin where no cover material was placed (due to navigational requirements), and dredging had been performed to the top of the glacial till where concentrations of arsenic in excess of 20 mg/kg are known to be present (CH2M 2015b). Three of those four Turning Basin locations were below 50 mg/kg at the surface; note that the 50 mg/kg dredging criterion was the initial dredging criterion Tyco was to meet. Tyco agreed to expand the dredging criterion to 20 mg/kg as part of the betterment project agreed to between Tyco and EPA.

The fifth location (SD-18) was in the Transition Area where dredging also had been performed to the top of glacial till, but concentrations were below 20 mg/kg. This location is adjacent to an area where glacial till also was exposed, and concentrations in excess of 20 mg/kg necessitated the placement of cover material (CH2M 2015b). The arsenic concentrations measured at these locations are possibly the result of sampling of some potential native material or dredge residuals. Sediment concentrations in these areas should continue to be monitored, and the monitoring approach will be further discussed as part of the 5-year review due at the end of 2018.

8. References

CH2M HILL (CH2M). 2012. *Confirmation Sampling Plan Quality Assurance Project Plan, Tyco Fire Products LP Facility, Marinette, Wisconsin*. July.

CH2M HILL (CH2M). 2015a. *Revised Barrier Wall Groundwater Monitoring Plan Update, Tyco Fire Products LP Facility, Marinette, Wisconsin*. September.

CH2M HILL (CH2M). 2015b. *Sampling Summary Report Great Lakes Legacy Act Lower Menominee River Tyco Site Adjacent to the Tyco Fire Products LP Facility, Marinette, Wisconsin*. November.

Table

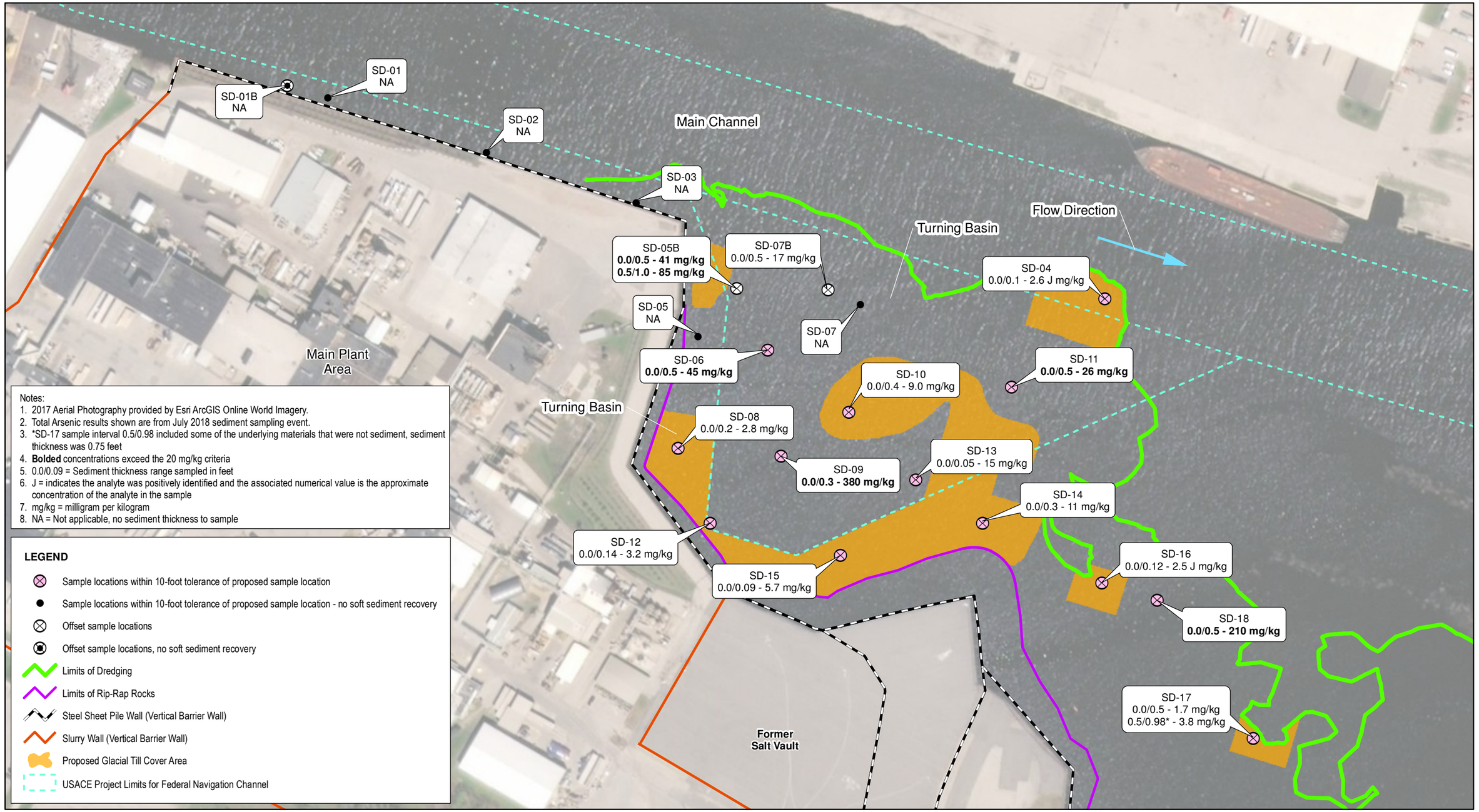
Table 1. Summary of Sediment Sample Locations and Field and Laboratory Data

Tyco Fire Products LP, Marinette, Wisconsin

Sample ID	Location	Proposed Location		Actual Location		Water Elevation, ft NAVD88	Water Depth, ft	Depth to Refusal, ft	Vibracore End Depth, ft bss	Vibracore Recovery, ft	Sed Layer, ft	Sed Sample Interval, ft bss	Sed Total Arsenic, mg/kg	Sed Sample Collection Method	Sand Cover Interval, ft bss	EPA Split Sample Interval (ft) and Matrix	Comments
		Easting	Northing	Easting	Northing												
SD-01	Main Channel	2584415.08	470615.58	2584410.58	470611.02	581.11	17.50	17.50	0.00	0.00	-	-	-	-	-	-	No recovery
SD-01B	Main Channel	-	-	2584346.81	470631.49	581.23	19.00	20.50	1.50	1.55	0.00	-	-	-	-	1.0 - 1.55, native material	No sediment, native undredged material
SD-02	Main Channel	2584659.42	470540.11	2584658.71	470531.73	581.16	20.30	22.20	1.90	1.25	0.00	-	-	-	-	0.8 - 1.25, native material	No sediment, native undredged material
SD-03	Main Channel	2584898.07	470456.49	2584896.35	470452.88	581.35	22.00	23.00	1.00	1.35	0.00	-	-	-	-	0.9 - 1.35, native material	No sediment, native undredged material
SD-04	Main Channel	2585634.04	470296.31	2585637.35	470297.33	581.09	27.50	29.50	2.00	0.65	0.10	0.0 - 0.1	2.6 J*	Ponar	0.1 - 0.65	0.1 - 0.65, sand cover	
SD-05	Turning Basin	2584996.55	470238.72	2584994.42	470239.12	581.09	17.00	17.20	0.20	0.00	-	-	-	-	-	-	No recovery
SD-05B	Turning Basin	-	-	2585058.28	470313.50	581.11	27.90	30.50	2.60	1.37	1.00	0.0 - 0.5 0.5 - 1.0	**41** **85**	Vibracore	no	0.5 - 1.0, sediment	
SD-06	Turning Basin	2585109.75	470215.15	2585106.36	470211.13	581.13	26.60	28.00	1.40	0.0 (ponor)	<0.5	0.0 - 0.5**	**45**	Ponar	no	0.0 - 0.5, sediment	
SD-07	Turning Basin	2585246.82	470295.69	2585250.54	470289.99	581.02	25.50	26.40	0.90	0.00	-	-	-	-	-	-	No recovery
SD-07B	Turning Basin	-	-	2585196.46	470311.47	581.11	27.90	29.10	1.20	0.0 (ponor)	<0.5	0.0 - 0.5**	17	Ponar	no	0.0 - 0.5, sediment	
SD-08	Turning Basin	2584964.27	470065.70	2584965.57	470064.08	581.04	13.70	15.90	2.20	1.10	0.20	0.0 - 0.2	2.8	Ponar	0.7 - 1.2	0.7 - 1.2, sand cover	
SD-09	Turning Basin	2585122.29	470049.57	2585124.70	470049.31	580.99	26.00	28.00	2.00	2.30	0.30	0.0 - 0.3	**380**	Ponar	no	1.8 - 2.3, native material	
SD-10	Turning Basin	2585225.34	470122.94	2585230.53	470120.26	580.96	26.40	28.50	2.10	1.50	0.40	0.0 - 0.4	9.0	Ponar	0.4 - 0.9	0.4 - 0.9, sand cover	
SD-11	Turning Basin	2585493.49	470166.30	2585504.22	470152.51	580.99	30.00	31.40	1.40	1.20	0.50	0.0 - 0.5	**26**	Ponar	no	0.0 - 0.5, sediment	
SD-12	Turning Basin	2585012.46	469945.01	2585016.57	469944.68	581.02	16.00	17.50	1.50	1.04	0.14	0.0 - 0.14	3.2	Vibracore	0.14 - 1.04	0.64 - 1.04, sand cover	
SD-13	Turning Basin	2585333.81	470022.19	2585339.34	470019.00	581.12	23.90	26.10	2.20	2.30	0.05	0.0 - 0.05	15	Ponar	no	2.0 - 2.3, native material	
SD-14	Turning Basin	2585440.93	469947.94	2585447.63	469949.95	581.31	30.60	33.90	3.30	1.95	0.30	0.0 - 0.3	11	Ponar	0.3 - 1.7	1.2 - 1.7, sand cover	
SD-15	Turning Basin	2585215.37	469902.49	2585221.23	469898.31	580.97	20.40	23.00	2.60	2.60	0.09	0.0 - 0.09	5.7	Ponar	0.09 - 0.68	0.09 - 0.68, sand cover	
SD-16	Turning Basin	2585624.28	469850.53	2585632.50	469852.40	581.06	25.60	27.10	1.50	1.30	0.12	0.0 - 0.12	2.5 J*	Ponar	0.12 - 1.3	0.7 - 1.3, sand cover	
SD-17	Turning Basin	2585862.00	469605.00	2585866.97	469608.66	580.99	10.10	12.60	2.50	1.75	0.75	0.0 - 0.5 0.5 - 0.98	1.7 3.8	Vibracore	0.75 - 1.48	0.98 - 1.48, sand cover	
SD-18	Turning Basin	2585706.00	469824.00	2585720.06	469827.24	580.95	24.00	27.00	3.00	0 (ponor)	<0.5	0.0 - 0.5**	**210**	Ponar	no	0.0 - 0.5, sediment	No recovery due to loss of vibracore***

Notes:
- = not applicable
ft = feet
Sed = sediment
bss = below sediment surface
Elevations are reported in feet above mean sea level relative to the North American Vertical Datum 1988 (NAVD88)
Coordinates are in NAD 83 State Plane Wisconsin Central - Survey Feet
Alphanumeric Sample IDs are field determined offset locations for primary locations with no recovery
(ponor) = ponor sample collected after two zero-recovery vibracore runs
*The higher of the two values were utilized when a duplicate sample was collected
**Sediment sample interval for nomenclature only, not indicative of actual sediment thickness
***SD-18 was the first location. After two separate failed attempts at retrieving vibracore cores that were advanced to refusal, it was determined to be an unsafe sampling approach. It was decided to advance the vibracore 2 to 3 feet, instead of refusal, to capture any soft sediment and sand layer, if present.
"<" used for Ponar recovery only (no vibracore recovery to confirm thickness)
J - indicates the analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample
Bolded total arsenic values indicates exceedance of the 20 mg/kg sediment criteria
mg/kg = milligrams per kilogram
EPA = U.S. Environmental Protection Agency

Figures



Notes:
1. 2017 Aerial Photography provided by Esri ArcGIS Online World Imagery.
2. Total Arsenic results shown are from July 2018 sediment sampling event.
3. *SD-17 sample interval 0.5/0.98 included some of the underlying materials that were not sediment, sediment thickness was 0.75 feet
4. **Bolded** concentrations exceed the 20 mg/kg criteria
5. 0.0/0.09 = Sediment thickness range sampled in feet
6. J = indicates the analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample
7. mg/kg = milligram per kilogram
8. NA = Not applicable, no sediment thickness to sample

LEGEND

- Sample locations within 10-foot tolerance of proposed sample location
- Sample locations within 10-foot tolerance of proposed sample location - no soft sediment recovery
- Offset sample locations
- Offset sample locations, no soft sediment recovery
- Limits of Dredging
- Limits of Rip-Rap Rocks
- Steel Sheet Pile Wall (Vertical Barrier Wall)
- Slurry Wall (Vertical Barrier Wall)
- Proposed Glacial Till Cover Area
- USACE Project Limits for Federal Navigation Channel

N

0 150 300

Approximate scale in feet

\\LAKEFRONT\PROJ\TYCO\MAPFILES\2018\SEDIMENTFIELDACTIVITIESANDDATASUMMARYMEMO\FIGURE 1 - SAMPLE LOCS AND TOTAL ARSENIC CONCENTRATIONS.MXD JHANSEN1 8/2/2018 9:42:04 AM

Figure 1. Sample Locations and Total Arsenic Concentrations
(Turning Basin, Main Channel, and Transition Area)
Tyco Fire Products LP Facility
Marinette, WI

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Figure 2. Sediment Thickness
(Turning Basin, Main Channel, and Transition Area)
Tyco Fire Products LP Facility
Marinette, WI

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\\LAKEFRONT\PROJ\TYCO\MAPFILES\2018\SEDIMENTFIELDACTIVITIESANDDATASUMMARYMEMO\FIGURE 2 - SEDIMENT THICKNESS.MXD JHANSEN1 9/5/2018 10:13:39 AM

Attachment 1
Core Logs

JACOBS

PROJECT NUMBER 704683.GS.07.SS

STATION ID SD-01A SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER:

CONTRACTOR: Affiliated Research

EQUIPMENT: ~~Vibracore~~ ponar

LOGGER:

DATE: 7-10-18 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 17.5

TOP OF ~~BARGE~~ H2O TO REFUSAL (FT):

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION	COMMENTS
		Ø		SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION: ~~[illegible]~~ 581.11

SEDIMENT ELEVATION:

~~X-COORDINATE~~: 45°05.964693'N

~~Y-COORDINATE~~: 87°56.869294'W

JACOBS	PROJECT NUMBER 704683.GS.07.SS	STATION ID SD-01B	SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER:
CONTRACTOR: Affiliated Research
EQUIPMENT: Vibracore
LOGGER:
DATE: 7-10-18 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 19'
TOP OF ~~BARGE~~ TO REFUSAL (FT): 20.5
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT) / PENETRATION (FT) / RECOVERY (FT) / #/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
RECOVERY (FT): 1.55	0.0 - 1.55 Clay, firm, grades from dark gray to slightly less dark gray w/ dark brown mottling likely some organics at top Some fine sand and silty at ~ 0.5/1.0	SD001B-0.0/0.5-2018 SB001B-0.5/1.0-2018 SB001B-1.0/1.55-2018

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION: ~~585.19~~ 581.23
SEDIMENT ELEVATION:

X-~~COORDINATE~~: 45° 05.968302 'N
Y-~~COORDINATE~~: 87° 36.883867 'W

JACOBS

PROJECT NUMBER: 704683.GS.07.SS

STATION ID: SD-02 SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER:

CONTRACTOR: Affiliated Research

EQUIPMENT: Vibracore

LOGGER:

DATE: 7-10-18 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 20.3'

TOP OF BARGE TO REFUSAL (FT): 22.2' H20

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
		1.25		0.0-0.4 - Gravel and organics, interstitial sand and silt, Black 0.4-0.8 Silty clay w/ some grain gravel - dark gray w/ light gray grains PID 8.6 - odor - gravel mulch gravel 0.8-1.25 Clay, dark gray,	SD002-0.4/0.8-2018 SD002-0.8/1.25-2018 SD002-0.8/1.25-2018/D

Dup collected

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION: ~~585.18~~ 581.16

SEDIMENT ELEVATION:

~~X-COORDINATE~~: 45°05.949377'N

~~Y-COORDINATE~~: 87°36.812030'W

JACOBS

PROJECT NUMBER	STATION ID	
704683.GS.07.SS	SD-03	SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
TOP OF BARGE TO SED SURFACE (FT):
WEATHER:
TOP OF BARGE TO WATER (FT):
CONTRACTOR: Affiliated Research
WATER DEPTH (FT): 22'
EQUIPMENT: Vibracore
TOP OF BARGE TO REFUSAL (FT): 23'
LOGGER:
SED THICKNESS TO REFUSAL (FT):
DATE: 7-10-18 START: END:

DEPTH BELOW SURFACE (FT) / PENETRATION (FT) / RECOVERY (FT) / #/TYPE	SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	SAMPLE ID, QA/QC, ETC
1.35'	0.0-1.0 - Silty clay, firm Shells at top 0.4' dark gray and med. brown, Native material	SD003-0.4/0.9-2018
	1.0-1.35 - Clay, silty, med brown, fine sand firm, native Material	SD003-0.9/1.35'-2018
	MS/MSD	

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION: ~~585.198~~ 581.35'
SEDIMENT ELEVATION:

~~X COORDINATE~~: 45°05.932802'N
~~Y COORDINATE~~: 87°36.758373'W

JACOBS

PROJECT NUMBER: 704683.GS.07.SS

STATION ID: SD-04 SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER:

CONTRACTOR: Affiliated Research

EQUIPMENT: Vibracore

LOGGER:

DATE: 7-10-18 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 27.5'

TOP OF BARGE TO REFUSAL (FT): 29.5'

SED THICKNESS TO REFUSAL (FT): 1.20

DEPTH BELOW SURFACE (FT) / PENETRATION (FT) / RECOVERY (FT) / #/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
	0.0 - 0.1 - Soft sediment Black, organics silty	SD004-0.0/~~0.1~~ 0.1 -2018
	0.1 - 0.65 - Sand cover med-coarse grained w/ carbon grains gray - brown	SD004-0.0/0.1-2018/D
		SD004-0.1/0.65-2018
	Collected Ponar which has lot of sand cover in it. Used Ponar for sample.	

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION: ~~581.19~~ 581.09

SEDIMENT ELEVATION:

~~X-COORDINATE:~~ 45° 05. 906491 'N

~~Y-COORDINATE:~~ 87° 36. 585084 ' W

JACOBS

PROJECT NUMBER	STATION ID	
704683.GS.07.SS	SD-05 A	SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER:
CONTRACTOR: Affiliated Research
EQUIPMENT: Vibracore
LOGGER:
DATE: 7-10-18 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 17'
TOP OF BARGE TO REFUSAL (FT): NA
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT) / PENETRATION (FT) / RECOVERY (FT) / #/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
Ø	No recovery Moved to offset location SD005B	

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION: ~~585.192~~ 581.89
SEDIMENT ELEVATION:

~~X-COORDINATE~~: 45°05.899659'N
~~Y-COORDINATE~~: 87°36.735863'W

JACOBS

PROJECT NUMBER: 704683.GS.07.SS

STATION ID: SD-05B

SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER:

CONTRACTOR: Affiliated Research

EQUIPMENT: ~~Vibracore~~ Vibracore

LOGGER:

DATE: 7-10-18 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 27.9' H_2O

TOP OF BARGE TO REFUSAL (FT): 30.5

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT) / PENETRATION (FT) / RECOVERY (FT) / #/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
RECOVERY (FT): 1.37	0.0 - ~1.37 - Soft Sediment Actual recovery of 1.0' ~~Silty~~ Silty clay, black, organics	SD005B-0.0/0.5-2018 SD005B-0.5/1.0-2018

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION: ~~585.198~~ 581.11

SEDIMENT ELEVATION:

~~X-COORDINATE~~: 45°05.911721'N

~~Y-COORDINATE~~: 87°36.721039'W

JACOBS

PROJECT NUMBER	STATION ID	
704683.GS.07.SS	SD-06	SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER:
CONTRACTOR: Affiliated Research
EQUIPMENT: ~~Vibracore~~ Ponar
LOGGER:
DATE: 7-10-18 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 26.6
TOP OF ~~BARGE~~ TO REFUSAL (FT): N/A
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT) / PENETRATION (FT) / RECOVERY (FT) / #/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
	0.0-0.5 - Soft sediment silty clayey, black, organics,	SD06-0.0/0.5-2018 SD006-0.0/0.5-2018/D
	Ponar sample only	
	Duplicate collected	

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION: ~~585.192~~ 581.13
SEDIMENT ELEVATION:

~~X-COORDINATE:~~ 45°05.896358' N
~~Y-COORDINATE:~~ 87°36.711901' W

JACOBS

PROJECT NUMBER	STATION ID	
704683.GS.07.SS	SD-07 A	SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
TOP OF BARGE TO SED SURFACE (FT):
WEATHER:
TOP OF BARGE TO WATER (FT):
CONTRACTOR: Affiliated Research
WATER DEPTH (FT): 25.5
EQUIPMENT: ~~Vibracore~~ Ponar
TOP OF BARGE TO REFUSAL (FT): H2O
LOGGER:
SED THICKNESS TO REFUSAL (FT):
DATE: 7-10-18 START: END:

DEPTH BELOW SURFACE (FT) / PENETRATION (FT) / RECOVERY (FT) / #/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
	Very limited recovery so discarded sample Resampled at SD007 B location	

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION: ~~581.02~~ 581.02
SEDIMENT ELEVATION:

~~X-COORDINATE~~: 45° 05.906850' N
~~Y-COORDINATE~~: 87° 36.675842' W

JACOBS

PROJECT NUMBER: 704683.GS.07.SS

STATION ID: SD-07B SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER:

CONTRACTOR: Affiliated Research

EQUIPMENT: ~~Vibracore~~ Ponar

LOGGER:

DATE: 7-10-18 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 27.9

TOP OF BARGE TO REFUSAL (FT):

H2O

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
				0.0-0.5' soft sediment black, silty clay, organics	SD007B-0.0/0.5'-2018
				Ponar sample only	

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION: ~~581.42~~ 581.11

SEDIMENT ELEVATION:

910111'N

~~X-COORDINATE:~~ 45°05.~~96~~93

~~Y-COORDINATE:~~ 87°36.68687'W

JACOBS

PROJECT NUMBER: 704683.GS.07.SS

STATION ID: SD008 SHEET OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER:

CONTRACTOR: Affiliated Research

EQUIPMENT: Vibracore

LOGGER:

DATE: 7/10/18 START: END: 810

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 13.7

TOP OF ~~BARGE~~ MLB TO REFUSAL (FT): 15.9

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
		1.1		0.0 - 0.2 - Soft Sediment Black, organic, fine grained silty clay 0.2 - 1.2 - Sand cover poorly sorted finer grained at top 6" brown/gray Collected Ponar and used for soft sediment sample - contained some sand cover Duplicate collected	SD008-0.0/0.2-2018 SD008-0.2/0.7-2018 SD008-0.7/1.2-2018 SD008-0.7/1.2-2018/D

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION: ~~595.192~~ 581.04

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05.871271 N

Y-COORDINATE: 87° 36.744755 W

JACOBS

PROJECT NUMBER: 704683.GS.07.SS

STATION ID: SD-09 SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER:

CONTRACTOR: Affiliated Research

EQUIPMENT: Vibracore

LOGGER:

DATE: 7/10/18 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 26.0'

TOP OF ~~BARGE~~ H2O TO REFUSAL (FT): 28.0'

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
		2.3		0.0 - 0.3 soft sediment 0.3-0.8 - clay silt brown gray 0.8-2.3 silty clay organics dark gray MS/MSD collected	SD009-00/0.3-2018 (MS/MSD) SD009-0.6/0.3-2018/D SD009-0.3/0.8-2018 SD009-0.8/1.3-2018 SD009-1.3/1.8-2018 SD009-1.8/2.3-2018

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION: ~~585.198~~ 580.99

SEDIMENT ELEVATION:

~~X-COORDINATE~~: 45°05.867840'N

~~Y-COORDINATE~~: 87°36.706145'W

JACOBS

PROJECT NUMBER: 704683.GS.07.SS

STATION ID: SD-10 SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER:

CONTRACTOR: Affiliated Research

EQUIPMENT: Vibracore

LOGGER:

DATE: 7/10/18 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 26.4'

TOP OF ~~BARGE~~ TO REFUSAL (FT): 28.5 (1.8)

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
				0.0-0.4 - Soft Sediment	SD010-0.0/0.4-2018
				0.4-1.5 - Sand Cover. Only had to 0.9 recovery - below catcher empty so only 1 sample interval Sand, poorly sorted some clay brown/gray med-coarse grained	SD010-0.4/0.9-2018

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION: ~~598.124~~ 580.96

SEDIMENT ELEVATION:

~~X-COORDINATE~~: 45°05.879330'N

~~Y-COORDINATE~~: 87°36.680783'W

JACOBS

PROJECT NUMBER: 704683.GS.07.SS

STATION ID: SD-011

SHEET 1 OF 1

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER:

CONTRACTOR: Affiliated Research

EQUIPMENT: Vibracore

LOGGER:

DATE: 7/9/18 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 30'

TOP OF ~~BARGE~~ water TO REFUSAL (FT): 31.4'

SED THICKNESS TO REFUSAL (FT): 1.4'

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
	1.4	1.2		Black, silty clay (muck) to ~0.7' organics no odor PID-0	SD011-0.0/0.5'-2018
		0.94		0.7-0.94 - Till, clay some gravel, gray	No sample
				Also collected Ponar - used for sediment sample	

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION: ~~585.192~~ 580.99

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05.884504 N

Y-COORDINATE: 87° 36.620388 W

JACOBS	PROJECT NUMBER 704683.GS.07.SS	STATION ID SD-012 SHEET OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER:
CONTRACTOR: Affiliated Research
EQUIPMENT: Vibracore
LOGGER:
DATE: 7/10/18 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 16'
TOP OF ~~BARGE~~ TO REFUSAL (FT): ~~17.5'~~ At 17.5'
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT) 1.5'	RECOVERY (FT) #/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
		1.04	0.14- soft sediment Black, silty clay organics	SD012-0.0/0.14-2018 MS/MSD
			0.14- 1.04 - Sand. Cover w/ clay (likely dredge residuals)	SD012-0.14/0.64-2018
				SD012-0.64/1.04-2018
			Collected Ponar used to collect soft sediment sample contained sand cover material	
			Collect MS/MSD from SD012-0.0/0.14-2018	

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION: ~~585.18~~ 581.02
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05.851138 N
Y-COORDINATE: 87° 36.733269 W

JACOBS	PROJECT NUMBER 704683.GS.07.SS	STATION ID SD-13	SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER:
CONTRACTOR: Affiliated Research
EQUIPMENT: Vibracore
LOGGER:
DATE: 7-10-18 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): ~~27.7~~ (25) 23.9'
TOP OF ~~BARGE~~ TO REFUSAL (FT): 26.1'
SED THICKNESS TO REFUSAL (FT): ~~2.0~~

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
				0.0 - 0.05 = Soft sediment clay/silt, gray brown	SD013-0.0-0.05-2018
				0.05 - .30 - Silty sand gray brown, ~~grn~~ laminae of organic, black disturbed material (slough)	
				0.3 - 0.35 - Black, organic soft sediment	
				0.35 - 2.3 Silty, v. fine grained Sand, grades from grayish brown to brown at base, small rare gravel	SD013-0.5-1.0-2018
					SD013-1.0-1.5-2018
					SD013-1.5-2.0-2018
					SD013-2.0-2.3-2018
				From 0.35 - 2.3 - apparent native undredged	
				Grab soft Sediment sample from Ponar	

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION: ~~[illegible]~~ 581.12
SEDIMENT ELEVATION:

~~X-COORDINATE~~: 45°05.861209'N
~~Y-COORDINATE~~: 87°36.657139'W

JACOBS

PROJECT NUMBER: 704683.GS.07.SS

STATION ID: SD-014

SHEET 1 OF

SEDIMENT CORE LOG

PROJECT: Tyco Fire Products LP

WEATHER:

CONTRACTOR: Affiliated Research

EQUIPMENT: Vibracore

LOGGER:

DATE: 7/9/18 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 30.6

TOP OF BARGE TO REFUSAL (FT): 33.9

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT) 3.3'	RECOVERY (FT) 1.95	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
				0-0.3' SOFT SEDIMENT Organic, Black silty clay, no odor - PID-0	SD014-0.0/0.3-2018
				0.3'-1.7' SAND COVER Sand, w/carbon grain brown gray PID-0	SD014-0.3/0.8-2018-01 SD04-0.8/1.2-2018 SD04-1.2/1.7-2018
				1.7'-1.95' - Core catcher no recovery	
				Also collected a Ponar packaged sediment sample from this	

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION: ~~585.192~~ 581.31

SEDIMENT ELEVATION:

X-COORDINATE: 45° 05. 846943 N

Y-COORDINATE: 87. 36. 633076 W

JACOBS

PROJECT NUMBER: 704683.GS.07.SS

STATION ID: SD-015 SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER:

CONTRACTOR: Affiliated Research

EQUIPMENT: Vibracore

LOGGER:

DATE: 7/10/18 START: END:

TOP OF BARGE TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 20.4

TOP OF ~~BARGE~~ WATER TO REFUSAL (FT): 23'

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
	2.6			0.0-0.09 - Soft Sediment Black, organics silty clay no odor	SD015-0.0/0.09-2018 SD015-0.0/0.09-2018/D
				0.09-0.68 - Sand Cover poorly sorted, brown/gray, carbon grains med-coarse grained.	SD015-0.09/0.68-2018
				Duplicate sample	

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION: ~~585.142~~ 580.97

SEDIMENT ELEVATION:

X-COORDINATE: 45°05.842324 N

Y-COORDINATE: 87° 36.685582 W

JACOBS

PROJECT NUMBER: 704683.GS.07.SS

STATION ID: SD-016 SHEET 1 OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER:
CONTRACTOR: Affiliated Research
EQUIPMENT: Vibracore
LOGGER:
DATE: START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 25.6
TOP OF ~~BARGE~~ water TO REFUSAL (FT): 27.1
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT) 1.5'	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
		1.3		0.0-0.12 Soft Sediment Black, silty clay organoc, wood PID-0	SD016-0.0/0.12-2018 SD016-0.0/0.12-2018/D
				0.12-1.3' Sand Cover Sand, poorly sorted gray and brown w/ carbon grains PID-0	SD016-0.12/0.7-2018 SD016-0.7/1.3-2018
				Also collected ponar-packaged sediment sample from this	
				Dup collected on SD016-0.0-0.12	-2018

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION: ~~585.192~~ 581.06
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05.82500 N
Y-COORDINATE: 87° 36.589778 W

JACOBS

PROJECT NUMBER 704683.GS.07.SS

STATION ID SD-017 SHEET OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP

WEATHER: SUNNY

CONTRACTOR: Affiliated Research

EQUIPMENT: Vibracore

LOGGER:

DATE: 7/9/18 START: END:

TOP OF ~~BARGE~~ WATER TO SED SURFACE (FT):

TOP OF BARGE TO WATER (FT):

WATER DEPTH (FT): 10.1

TOP OF ~~BARGE~~ WATER TO REFUSAL (FT): 12.6

SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
0				0.75" Black sediment silty clay (muck) organics, wood PID-0	SD017-0.0/0.5-2018
0.75				0.75" ↓ Sand cover Sand, poorly sorted carbon PID-0	SD017-0.5-0.98-2018
1.0		11.75		Native, gray, sand w/small gravel, fine grained, P.ID.-0.0	SD017-~~11.75~~/12.75 0.98-1.48 -2018
1.5		12.75			
2.0					
2.5					

NOTES:

STAFF GAUGE No. and ELEV:

STAFF GAUGE READING (FT):

WATER ELEVATION: ~~585.19~~ 580.99

SEDIMENT ELEVATION:

X-COORDINATE: 45°.05.791117 N

Y-COORDINATE: 87° 36.535535

JACOBS

PROJECT NUMBER	STATION ID	
704683.GS.07.SS	SD-018	SHEET OF

SEDIMENT CORE LOG

PROJECT : Tyco Fire Products LP
WEATHER:
CONTRACTOR: Affiliated Research
EQUIPMENT: Vibracore
LOGGER:
DATE: 7/9/18 START: END:

TOP OF BARGE TO SED SURFACE (FT):
TOP OF BARGE TO WATER (FT):
WATER DEPTH (FT): 24'
TOP OF BARGE TO REFUSAL (FT):
SED THICKNESS TO REFUSAL (FT):

DEPTH BELOW SURFACE (FT)	PENETRATION (FT)	RECOVERY (FT)	#/TYPE	SEDIMENT DESCRIPTION: SEDIMENT TEXTURE, COLOR, RELATIVE DENSITY OR CONSISTANCY, & STRUCTURE	COMMENTS: SAMPLE ID, QA/QC, ETC
	0.6	0.6	Ponar	Black, silty clay (muck) organic, wo odor PID - 0	SD018 0.0/0.5 -2018

NOTES:

STAFF GAUGE No. and ELEV:
STAFF GAUGE READING (FT):
WATER ELEVATION: ~~585.42~~ 580.95
SEDIMENT ELEVATION:

X-COORDINATE: 45° 05.827924 N
Y-COORDINATE: 87° 36.569857 W

Attachment 2
Data Quality Review and Laboratory Report

JACOBS®

Memorandum

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Subject	**Data Quality Evaluation for the July 2018 Sediment Sampling**
Project Name	Tyco Fire Products LP Facility, Marinette, Wisconsin
Attention	Tyco Fire Products LP
From	Jacobs Engineering Group Inc. (Jacobs)
Date	September 28, 2018
Document Control No.	704683.262

1. Introduction

The objective of this data quality evaluation (DQE) report is to assess the data quality of analytical results for sediment samples collected from the Tyco Fire Products LP (Tyco) facility in Marinette, Wisconsin. Jacobs assisted Tyco with collecting sediment samples July 9 through July 11, 2018. Guidance for this DQE report came from the U.S. Environmental Protection Agency (EPA) *Contract Laboratory National Functional Guidelines for Inorganic Review* (January 2017) and individual method requirements.

The analytical results were evaluated using the criteria of precision, accuracy, representativeness, comparability, and completeness (PARCC) as presented in the *Confirmation Sampling Plan Quality Assurance Project Plan* (QAPP, CH2M HILL [CH2M] 2012). This report is intended as a general data quality assessment designed to summarize data issues.

2. Analytical Data

During the July 2018 sediment sampling event, 45 sediment samples, 7 field duplicate (FD) samples, 3 matrix spike (MS)/matrix spike duplicate (MSD) samples, 2 equipment blank (EB) samples, and 1 field blank (FB) sample were collected and submitted to TestAmerica in Chicago, Illinois. Of the samples collected, 28 sediment samples, 5 FD samples, and 1 MS/MSD sample were placed on hold at the laboratory for analysis at a later date (if needed). All other samples were analyzed for arsenic using EPA Method SW-846 6010B for inductively coupled plasma and reported in sample delivery group J148287-1.

The laboratory report was assessed by reviewing the chain-of-custody (COC) documentation, holding time compliance, MS/MSD recoveries, laboratory control spiking samples (LCS) recoveries, laboratory method blanks/field equipment blanks, FD precision, quantitation limits, and calibration compliance.

Data flags were assigned according to the QAPP (CH2M 2012). Multiple flags are routinely applied to specific sample method/matrix/analyte combinations, but there will only be one final flag. A final flag (for example, U, UB, UJ, J, JB, or R) is applied to the data and is the most conservative of the applied validation flags. The final flag also includes matrix and blank sample impacts. The data flags listed in the QAPP are defined below:

- U = The analyte was analyzed for but was not detected above the laboratory reporting/quantitation limit.

- UJ = The analyte was not detected above the laboratory reporting/quantitation limit; the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation due to quality assurance (QA)/quality control (QC) deficiencies.
- J = The analyte was positively identified above the method detection limit; the associated numerical value is considered an estimated concentration of the analyte in the sample.
- R = The sample result was rejected due to serious deficiencies in the ability to analyze the sample and meet QA/QC criteria. The presence or absence of the analyte could not be verified.

In addition, the following flags were applied (if necessary) to note the presence of the analyte in an associated field and/or laboratory blank sample:

- UB = The analyte was analyzed for but was reported as not detected at the laboratory reporting/quantitation limit due to the presence of the analyte in an associated field and/or laboratory blank.
- JB = The analyte was positively identified; the associated numerical value is considered an estimated concentration due to the presence of the analyte in an associated field and/or laboratory blank.

3. General Data Qualifiers

As required by EPA protocols, all compounds that were qualitatively identified at concentrations below their respective reporting limits (RLs) but above the method detection limits (MDLs) have been appended with “J” qualifiers on the data summary table to indicate they are quantitative estimates.

4. Findings

Laboratory and method QA/QC standards were met for all samples analyzed by both analytical methods; therefore, no data qualifiers were changed or added from those applied by the laboratory.

4.1 Chain-of-Custody

All samples were received in good condition and properly preserved.

4.2 Holding Time/Preservation

All samples received for arsenic analysis were analyzed within the holding time requirements.

4.3 Calibration

All instrument initial and continuing calibration data were within criteria.

4.4 Matrix Spike/Serial Dilution

Sample SD009-0.0/0.3-2018 was selected on the COCs for MS/MSD analysis for arsenic. Because of the high level of arsenic in the native sample, accuracy was not evaluated; however, MS/MSD and serial dilution precision criteria were met.

Sample SD012-0.0/0.14-2018 was selected by the laboratory for MS/MSD analysis with all accuracy and precision criteria met.

4.5 Laboratory Control Samples

LCS were analyzed as required, and accuracy and precision criteria were met.

4.6 Blanks

Laboratory method and calibration blanks along with EB and FB were analyzed to monitor laboratory and field contamination. All blanks were reported as not detected for arsenic for this sample set.

4.7 Field Duplicates

An FD sample was collected with native samples SD004-0.0/0.1-2018 and SD016-0.0-0.12-2018 and analyzed to evaluate the precision of field sampling and the variability of the sample data during the July 2018 sampling event. The native sample and FD sample results were compared for those sample sets when both the native and field duplicate sample results were greater than the RL. The following native and FD arsenic results were reported:

- 1.9 milligrams per kilogram (mg/kg) SD004-0.0/0.1-2018 and 2.6 mg/kg SD004-0.0/0.1-2018/D
- 2.5 mg/kg SD016-0.0-0.12-2018 and 1.9 mg/kg SD016-0.0-0.12-2018/D

Relative percent differences (RPDs) above criteria (31.1 for SD004-0.0/0.1-2018 and 27.3 for SD016-0.0-0.12-2018) were reported; therefore, both the native and FD results for these samples were qualified as estimated values because of the FD precision exceedance.

4.8 Quantitation Limits

Dilutions may be required to allow the quantitation of analytes within the linear calibration range of the instrument or to reduce the effect of the matrix on sample analysis. Dilutions were not required for any samples in this sample set.

5. Overall Assessment

The goal of this assessment is to demonstrate that a sufficient number of representative samples were collected, and the resulting analytical data can be used as qualified to support the decision-making process. The following summary highlights the PARCC findings for this data set:

- **Precision** is defined as the agreement between duplicate results and was verified by comparing native sample/FD, MS/MSD, and native sample/serial dilution results. Precision criteria were met for MS/MSD and serial dilution samples but exceeded for both FD samples sets, indicating a possible bias due to sample collection technique.
- **Accuracy** is a measure of the agreement between an experimental determination and the true value of the parameter measured. Accuracy of the data was verified by reviewing the LCS and MS/MSD samples. Accuracy criteria were not evaluated for the client-specific MS/MSD sample because of the high concentration of arsenic in the native sample. However, accuracy results for the laboratory selected MS/MSD and the associated LCS samples were met, indicating the sample matrix did not significantly interfere with the overall analytical process.
- **Representativeness** is a qualitative measure of the degree to which sample data accurately and precisely represent a characteristic environmental condition. Representativeness is a subjective parameter and is used to evaluate the efficacy of the sampling plan design. Representativeness of the data was verified through sample collection, storage, and preservation procedures; verification of holding time compliance; and evaluation of analytical data. Neither the field team nor laboratory noted any issues related to sample collection, preservation, analysis, or storage of the samples.
- **Comparability** is another qualitative measure designed to express the confidence with which one data set may be compared to another. Factors that affect comparability are sample collection and handling techniques, sample matrix type, and analytical method. Comparability is limited by the other PARCC parameters because data sets can be compared with confidence only when precision and accuracy are known. Data from this investigation are comparable with other data collected at the site because only EPA-approved methods were used to analyze the samples and EPA Level III QC data are available to support the quality of the data.

- **Completeness** is defined as the percentage of measurements that are judged to be valid compared to the total number of measurements made. Valid data are defined as results that were not rejected for project use. Sample analyses were performed within QA/QC criteria with no data rejected, resulting in 100% usable data for the July 2018 sediment sampling event.

ANALYTICAL REPORT

Job Number: 500-148287-1

Job Description: Sample Analysis

For:
Tyco Fire Protection Products
1 Stanton St
Marinette, WI 54143

Attention: Mr. Ryan Suennen

Approved for release.
Richard C Wright
Senior Project Manager
7/17/2018 11:38 AM

Richard C Wright, Senior Project Manager
2417 Bond Street, University Park, IL, 60484
richard.wright@testamericainc.com
07/17/2018

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

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

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Qualifiers

Metals

Qualifier	Qualifier Description
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	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
500-148287-1

Comments
No additional comments.

Receipt
The samples were received on 7/12/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Tyco Fire Protection Products
Project/Site: Sample Analysis

TestAmerica Job ID: 500-148287-1

Client Sample ID: SD015-0.0/0.09-2018 — Lab Sample ID: 500-148287-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.7		1.5	0.50	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD010-0.0/0.4-2018 — Lab Sample ID: 500-148287-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.0		1.7	0.56	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD013-0.0/0.05-2018 — Lab Sample ID: 500-148287-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	15		1.3	0.44	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD004-0.0/0.1-2018 — Lab Sample ID: 500-148287-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.9		1.2	0.41	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD004-0.0/0.1-2018/D — Lab Sample ID: 500-148287-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.6		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD009-0.0/0.3-2018 — Lab Sample ID: 500-148287-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	380		2.5	0.85	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD006-0.0/0.5-2018 — Lab Sample ID: 500-148287-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	45		2.6	0.89	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD007B-0.0/0.5-2018 — Lab Sample ID: 500-148287-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	17		2.0	0.67	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD005B-0.0/0.5-2018 — Lab Sample ID: 500-148287-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	41		2.1	0.71	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD005B-0.5/1.0-2018 — Lab Sample ID: 500-148287-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	85		1.7	0.59	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD011-0.0/0.5-2018 — Lab Sample ID: 500-148287-34

This Detection Summary does not include radiochemical test results.

Client Sample ID: SD011-0.0/0.5-2018 (Continued) — Lab Sample ID: 500-148287-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	26		3.1	1.1	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD012-0.0/0.14-2018 — Lab Sample ID: 500-148287-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.2		1.4	0.48	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD014-0.0/0.3-2018 — Lab Sample ID: 500-148287-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		1.5	0.52	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD016-0.0/0.12-2018 — Lab Sample ID: 500-148287-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.5		1.2	0.41	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD016-0.0/0.12-2018/D — Lab Sample ID: 500-148287-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.9		1.2	0.42	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD017-0.0/0.5-2018 — Lab Sample ID: 500-148287-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.7		1.1	0.37	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD017-0.5/0.98-2018 — Lab Sample ID: 500-148287-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.8		1.1	0.39	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: SD018-0.0/0.5-2018 — Lab Sample ID: 500-148287-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	210		2.9	0.98	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: EB001-2018 — Lab Sample ID: 500-148287-49

No Detections.

Client Sample ID: EB002-2018 — Lab Sample ID: 500-148287-50

No Detections.

Client Sample ID: SD008-0.0/0.2-2018 — Lab Sample ID: 500-148287-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		1.2	0.42	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tyco Fire Protection Products
Project/Site: Sample Analysis

TestAmerica Job ID: 500-148287-1

Client Sample ID: FB001-2018 — Lab Sample ID: 500-148287-55

No Detections.

Client Sample ID: WC001 — Lab Sample ID: 500-148287-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.90		0.050	0.010	mg/L	1		6010B	TCLP

Client Sample ID: WC002 — Lab Sample ID: 500-148287-57

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.063		0.050	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample ID: SD015-0.0/0.09-2018
Date Collected: 07/10/18 10:20
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-2
Matrix: Solid
Percent Solids: 59.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.7		1.5	0.50	mg/Kg	☼	07/12/18 16:09	07/13/18 11:45	1

Client Sample ID: SD010-0.0/0.4-2018
Date Collected: 07/10/18 11:23
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-5
Matrix: Solid
Percent Solids: 57.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.0		1.7	0.56	mg/Kg	☼	07/12/18 16:09	07/13/18 11:49	1

Client Sample ID: SD013-0.0/0.05-2018
Date Collected: 07/10/18 12:11
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-7
Matrix: Solid
Percent Solids: 69.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15		1.3	0.44	mg/Kg	☼	07/12/18 16:09	07/13/18 11:53	1

Client Sample ID: SD004-0.0/0.1-2018
Date Collected: 07/10/18 13:03
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-12
Matrix: Solid
Percent Solids: 79.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9		1.2	0.41	mg/Kg	☼	07/12/18 16:09	07/13/18 12:05	1

Client Sample ID: SD004-0.0/0.1-2018/D
Date Collected: 07/10/18 13:03
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-13
Matrix: Solid
Percent Solids: 82.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		1.2	0.39	mg/Kg	☼	07/12/18 16:09	07/13/18 12:09	1

Client Sample ID: SD009-0.0/0.3-2018
Date Collected: 07/10/18 13:34
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-15
Matrix: Solid
Percent Solids: 36.7

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	380		2.5	0.85	mg/Kg	☼	07/12/18 16:09	07/13/18 12:13	1

Client Sample ID: SD006-0.0/0.5-2018
Date Collected: 07/10/18 14:48
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-21
Matrix: Solid
Percent Solids: 36.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	45		2.6	0.89	mg/Kg	☼	07/12/18 16:09	07/13/18 12:32	1

Client Sample ID: SD007B-0.0/0.5-2018
Date Collected: 07/10/18 14:45
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-23
Matrix: Solid
Percent Solids: 45.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17		2.0	0.67	mg/Kg	☼	07/12/18 16:09	07/13/18 12:36	1

Client Sample ID: SD005B-0.0/0.5-2018
Date Collected: 07/10/18 16:18
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-24
Matrix: Solid
Percent Solids: 44.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	41		2.1	0.71	mg/Kg	☼	07/12/18 16:09	07/13/18 12:40	1

Client Sample ID: SD005B-0.5/1.0-2018
Date Collected: 07/10/18 16:19
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-25
Matrix: Solid
Percent Solids: 56.8

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	85		1.7	0.59	mg/Kg	☼	07/12/18 16:09	07/13/18 12:52	1

Client Sample ID: SD011-0.0/0.5-2018
Date Collected: 07/09/18 14:18
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-34
Matrix: Solid
Percent Solids: 30.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	26		3.1	1.1	mg/Kg	☼	07/12/18 16:09	07/13/18 12:56	1

Client Sample ID: SD012-0.0/0.14-2018
Date Collected: 07/10/18 09:40
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-35
Matrix: Solid
Percent Solids: 71.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		1.4	0.48	mg/Kg	☼	07/12/18 16:09	07/13/18 13:00	1

Client Sample ID: SD014-0.0/0.3-2018
Date Collected: 07/09/18 17:02
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-37
Matrix: Solid
Percent Solids: 59.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		1.5	0.52	mg/Kg	☼	07/12/18 16:09	07/13/18 13:20	1

Client Sample ID: SD016-0.0/0.12-2018
Date Collected: 07/09/18 17:25
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-41
Matrix: Solid
Percent Solids: 72.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5		1.2	0.41	mg/Kg	☼	07/12/18 16:09	07/13/18 13:24	1

Client Sample ID: SD016-0.0/0.12-2018/D
Date Collected: 07/09/18 17:25
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-42
Matrix: Solid
Percent Solids: 70.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9		1.2	0.42	mg/Kg	☼	07/12/18 16:09	07/13/18 13:28	1

Client Sample ID: SD017-0.0/0.5-2018
Date Collected: 07/09/18 11:07
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-45
Matrix: Solid
Percent Solids: 88.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.7		1.1	0.37	mg/Kg	☼	07/12/18 16:09	07/13/18 13:40	1

Client Sample ID: SD017-0.5/0.98-2018
Date Collected: 07/09/18 11:07
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-46
Matrix: Solid
Percent Solids: 87.4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		1.1	0.39	mg/Kg	☼	07/12/18 16:09	07/13/18 13:44	1

Client Sample ID: SD018-0.0/0.5-2018
Date Collected: 07/09/18 12:28
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-48
Matrix: Solid
Percent Solids: 31.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	210		2.9	0.98	mg/Kg	☼	07/12/18 16:09	07/13/18 13:48	1

Client Sample ID: EB001-2018
Date Collected: 07/09/18 17:46
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-49
Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0021		0.0050	0.0021	mg/L		07/12/18 15:51	07/13/18 12:35	1

Client Sample ID: EB002-2018
Date Collected: 07/10/18 19:00
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-50
Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0021		0.0050	0.0021	mg/L		07/12/18 15:51	07/13/18 12:39	1

Client Sample ID: SD008-0.0/0.2-2018
Date Collected: 07/10/18 08:36
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-51
Matrix: Solid
Percent Solids: 73.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		1.2	0.42	mg/Kg	☼	07/12/18 16:09	07/13/18 13:52	1

Client Sample ID: FB001-2018
Date Collected: 07/10/18 19:05
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-55
Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0021		0.0050	0.0021	mg/L		07/12/18 15:51	07/13/18 12:51	1

Client Sample ID: WC001
Date Collected: 07/11/18 12:16
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-56
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.90		0.050	0.010	mg/L		07/16/18 07:32	07/16/18 19:30	1

Client Sample ID: WC002
Date Collected: 07/11/18 12:15
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-57
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.063		0.050	0.010	mg/L		07/16/18 07:32	07/16/18 19:34	1

Default Detection Limits

Client: Tyco Fire Protection Products
Project/Site: Sample Analysis

TestAmerica Job ID: 500-148287-1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Prep: 200.7

Analyte	RL	MDL	Units	Method
Arsenic	0.010	0.0042	mg/L	200.7 Rev 4.4

Method: 6010B - Metals (ICP)

Prep: 3050B

Analyte	RL	MDL	Units	Method
Arsenic	1.0	0.34	mg/Kg	6010B

Method: 6010B - Metals (ICP) - TCLP

Prep: 3010A
Leach: 1311

Analyte	RL	MDL	Units	Method
Arsenic	0.050	0.010	mg/L	6010B

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-440701/1-A
Matrix: Water
Analysis Batch: 440860

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 440701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0021		0.0050	0.0021	mg/L		07/12/18 15:51	07/13/18 11:13	1

Lab Sample ID: LCS 500-440701/2-A
Matrix: Water
Analysis Batch: 440860

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 440701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.0492		mg/L		98	85 - 115

Lab Sample ID: 500-148287-55 MS
Matrix: Water
Analysis Batch: 440860

Client Sample ID: FB001-2018
Prep Type: Total Recoverable
Prep Batch: 440701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.0021		0.0500	0.0469		mg/L		94	70 - 130

Lab Sample ID: 500-148287-55 DU
Matrix: Water
Analysis Batch: 440860

Client Sample ID: FB001-2018
Prep Type: Total Recoverable
Prep Batch: 440701

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	<0.0021		<0.0021		mg/L		NC	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-440708/1-A
Matrix: Solid
Analysis Batch: 440857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		07/12/18 16:09	07/13/18 11:37	1

Lab Sample ID: LCS 500-440708/2-A
Matrix: Solid
Analysis Batch: 440857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.16		mg/Kg		92	80 - 120

Lab Sample ID: 500-148287-15 MS
Matrix: Solid
Analysis Batch: 440857

Client Sample ID: SD009-0.0/0.3-2018
Prep Type: Total/NA
Prep Batch: 440708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	380		26.5	354	4	mg/Kg	☼	-91	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-148287-15 MSD — **Client Sample ID: SD009-0.0/0.3-2018**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 440857 — **Prep Batch: 440708**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	380		26.8	348	4	mg/Kg	☼	-110	75 - 125	2	20

Lab Sample ID: 500-148287-35 MS — **Client Sample ID: SD012-0.0/0.14-2018**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 440857 — **Prep Batch: 440708**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	3.2		13.0	14.5		mg/Kg	☼	87	75 - 125		

Lab Sample ID: 500-148287-35 MSD — **Client Sample ID: SD012-0.0/0.14-2018**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 440857 — **Prep Batch: 440708**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3.2		12.4	13.8		mg/Kg	☼	85	75 - 125	5	20

Lab Sample ID: 500-148287-15 DU — **Client Sample ID: SD009-0.0/0.3-2018**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 440857 — **Prep Batch: 440708**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	380		382		mg/Kg	☼	1	20

Lab Sample ID: 500-148287-35 DU — **Client Sample ID: SD012-0.0/0.14-2018**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 440857 — **Prep Batch: 440708**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	3.2		3.36		mg/Kg	☼	4	20

Lab Sample ID: LCS 500-440994/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 441160 — **Prep Batch: 440994**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	0.100	0.0940		mg/L		94	80 - 120		

Lab Sample ID: LB 500-440847/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 441160 — **Prep Batch: 440994**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		07/16/18 07:32	07/16/18 18:36	1

Metals

Prep Batch: 440701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-148287-49	EB001-2018	Total Recoverable	Water	200.7	
500-148287-50	EB002-2018	Total Recoverable	Water	200.7	
500-148287-55	FB001-2018	Total Recoverable	Water	200.7	
MB 500-440701/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-440701/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-148287-55 MS	FB001-2018	Total Recoverable	Water	200.7	
500-148287-55 DU	FB001-2018	Total Recoverable	Water	200.7	

Prep Batch: 440708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-148287-2	SD015-0.0/0.09-2018	Total/NA	Solid	3050B	
500-148287-5	SD010-0.0/0.4-2018	Total/NA	Solid	3050B	
500-148287-7	SD013-0.0/0.05-2018	Total/NA	Solid	3050B	
500-148287-12	SD004-0.0/0.1-2018	Total/NA	Solid	3050B	
500-148287-13	SD004-0.0/0.1-2018/D	Total/NA	Solid	3050B	
500-148287-15	SD009-0.0/0.3-2018	Total/NA	Solid	3050B	
500-148287-21	SD006-0.0/0.5-2018	Total/NA	Solid	3050B	
500-148287-23	SD007B-0.0/0.5-2018	Total/NA	Solid	3050B	
500-148287-24	SD005B-0.0/0.5-2018	Total/NA	Solid	3050B	
500-148287-25	SD005B-0.5/1.0-2018	Total/NA	Solid	3050B	
500-148287-34	SD011-0.0/0.5-2018	Total/NA	Solid	3050B	
500-148287-35	SD012-0.0/0.14-2018	Total/NA	Solid	3050B	
500-148287-37	SD014-0.0/0.3-2018	Total/NA	Solid	3050B	
500-148287-41	SD016-0.0/0.12-2018	Total/NA	Solid	3050B	
500-148287-42	SD016-0.0/0.12-2018/D	Total/NA	Solid	3050B	
500-148287-45	SD017-0.0/0.5-2018	Total/NA	Solid	3050B	
500-148287-46	SD017-0.5/0.98-2018	Total/NA	Solid	3050B	
500-148287-48	SD018-0.0/0.5-2018	Total/NA	Solid	3050B	
500-148287-51	SD008-0.0/0.2-2018	Total/NA	Solid	3050B	
MB 500-440708/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-440708/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-148287-15 MS	SD009-0.0/0.3-2018	Total/NA	Solid	3050B	
500-148287-15 MSD	SD009-0.0/0.3-2018	Total/NA	Solid	3050B	
500-148287-35 MS	SD012-0.0/0.14-2018	Total/NA	Solid	3050B	
500-148287-35 MSD	SD012-0.0/0.14-2018	Total/NA	Solid	3050B	
500-148287-15 DU	SD009-0.0/0.3-2018	Total/NA	Solid	3050B	
500-148287-35 DU	SD012-0.0/0.14-2018	Total/NA	Solid	3050B	

Leach Batch: 440847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-148287-56	WC001	TCLP	Solid	1311	
500-148287-57	WC002	TCLP	Solid	1311	
LB 500-440847/1-B	Method Blank	TCLP	Solid	1311	

Analysis Batch: 440857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-148287-2	SD015-0.0/0.09-2018	Total/NA	Solid	6010B	440708
500-148287-5	SD010-0.0/0.4-2018	Total/NA	Solid	6010B	440708
500-148287-7	SD013-0.0/0.05-2018	Total/NA	Solid	6010B	440708
500-148287-12	SD004-0.0/0.1-2018	Total/NA	Solid	6010B	440708
500-148287-13	SD004-0.0/0.1-2018/D	Total/NA	Solid	6010B	440708

Metals (Continued)

Analysis Batch: 440857 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-148287-15	SD009-0.0/0.3-2018	Total/NA	Solid	6010B	440708
500-148287-21	SD006-0.0/0.5-2018	Total/NA	Solid	6010B	440708
500-148287-23	SD007B-0.0/0.5-2018	Total/NA	Solid	6010B	440708
500-148287-24	SD005B-0.0/0.5-2018	Total/NA	Solid	6010B	440708
500-148287-25	SD005B-0.5/1.0-2018	Total/NA	Solid	6010B	440708
500-148287-34	SD011-0.0/0.5-2018	Total/NA	Solid	6010B	440708
500-148287-35	SD012-0.0/0.14-2018	Total/NA	Solid	6010B	440708
500-148287-37	SD014-0.0/0.3-2018	Total/NA	Solid	6010B	440708
500-148287-41	SD016-0.0/0.12-2018	Total/NA	Solid	6010B	440708
500-148287-42	SD016-0.0/0.12-2018/D	Total/NA	Solid	6010B	440708
500-148287-45	SD017-0.0/0.5-2018	Total/NA	Solid	6010B	440708
500-148287-46	SD017-0.5/0.98-2018	Total/NA	Solid	6010B	440708
500-148287-48	SD018-0.0/0.5-2018	Total/NA	Solid	6010B	440708
500-148287-51	SD008-0.0/0.2-2018	Total/NA	Solid	6010B	440708
MB 500-440708/1-A	Method Blank	Total/NA	Solid	6010B	440708
LCS 500-440708/2-A	Lab Control Sample	Total/NA	Solid	6010B	440708
500-148287-15 MS	SD009-0.0/0.3-2018	Total/NA	Solid	6010B	440708
500-148287-15 MSD	SD009-0.0/0.3-2018	Total/NA	Solid	6010B	440708
500-148287-35 MS	SD012-0.0/0.14-2018	Total/NA	Solid	6010B	440708
500-148287-35 MSD	SD012-0.0/0.14-2018	Total/NA	Solid	6010B	440708
500-148287-15 DU	SD009-0.0/0.3-2018	Total/NA	Solid	6010B	440708
500-148287-35 DU	SD012-0.0/0.14-2018	Total/NA	Solid	6010B	440708

Analysis Batch: 440860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-148287-49	EB001-2018	Total Recoverable	Water	200.7 Rev 4.4	440701
500-148287-50	EB002-2018	Total Recoverable	Water	200.7 Rev 4.4	440701
500-148287-55	FB001-2018	Total Recoverable	Water	200.7 Rev 4.4	440701
MB 500-440701/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	440701
LCS 500-440701/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	440701
500-148287-55 MS	FB001-2018	Total Recoverable	Water	200.7 Rev 4.4	440701
500-148287-55 DU	FB001-2018	Total Recoverable	Water	200.7 Rev 4.4	440701

Prep Batch: 440994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-148287-56	WC001	TCLP	Solid	3010A	440847
500-148287-57	WC002	TCLP	Solid	3010A	440847
LB 500-440847/1-B	Method Blank	TCLP	Solid	3010A	440847
LCS 500-440994/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 441160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-148287-56	WC001	TCLP	Solid	6010B	440994
500-148287-57	WC002	TCLP	Solid	6010B	440994
LB 500-440847/1-B	Method Blank	TCLP	Solid	6010B	440994
LCS 500-440994/2-A	Lab Control Sample	Total/NA	Solid	6010B	440994

General Chemistry

Analysis Batch: 440674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-148287-2	SD015-0.0/0.09-2018	Total/NA	Solid	Moisture	
500-148287-5	SD010-0.0/0.4-2018	Total/NA	Solid	Moisture	
500-148287-7	SD013-0.0/0.05-2018	Total/NA	Solid	Moisture	
500-148287-12	SD004-0.0/0.1-2018	Total/NA	Solid	Moisture	
500-148287-13	SD004-0.0/0.1-2018/D	Total/NA	Solid	Moisture	
500-148287-15	SD009-0.0/0.3-2018	Total/NA	Solid	Moisture	
500-148287-7 DU	SD013-0.0/0.05-2018	Total/NA	Solid	Moisture	

Analysis Batch: 440687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-148287-21	SD006-0.0/0.5-2018	Total/NA	Solid	Moisture	
500-148287-23	SD007B-0.0/0.5-2018	Total/NA	Solid	Moisture	
500-148287-24	SD005B-0.0/0.5-2018	Total/NA	Solid	Moisture	
500-148287-25	SD005B-0.5/1.0-2018	Total/NA	Solid	Moisture	
500-148287-34	SD011-0.0/0.5-2018	Total/NA	Solid	Moisture	
500-148287-35	SD012-0.0/0.14-2018	Total/NA	Solid	Moisture	
500-148287-37	SD014-0.0/0.3-2018	Total/NA	Solid	Moisture	

Analysis Batch: 440732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-148287-41	SD016-0.0/0.12-2018	Total/NA	Solid	Moisture	
500-148287-42	SD016-0.0/0.12-2018/D	Total/NA	Solid	Moisture	
500-148287-45	SD017-0.0/0.5-2018	Total/NA	Solid	Moisture	
500-148287-46	SD017-0.5/0.98-2018	Total/NA	Solid	Moisture	
500-148287-48	SD018-0.0/0.5-2018	Total/NA	Solid	Moisture	
500-148287-51	SD008-0.0/0.2-2018	Total/NA	Solid	Moisture	

Client Sample ID: SD015-0.0/0.09-2018
Date Collected: 07/10/18 10:20
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440674	07/12/18 14:13	LWN	TAL CHI

Client Sample ID: SD015-0.0/0.09-2018
Date Collected: 07/10/18 10:20
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-2
Matrix: Solid
Percent Solids: 59.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 11:45	EEN	TAL CHI

Client Sample ID: SD010-0.0/0.4-2018
Date Collected: 07/10/18 11:23
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440674	07/12/18 14:13	LWN	TAL CHI

Client Sample ID: SD010-0.0/0.4-2018
Date Collected: 07/10/18 11:23
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-5
Matrix: Solid
Percent Solids: 57.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 11:49	EEN	TAL CHI

Client Sample ID: SD013-0.0/0.05-2018
Date Collected: 07/10/18 12:11
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440674	07/12/18 14:13	LWN	TAL CHI

Client Sample ID: SD013-0.0/0.05-2018
Date Collected: 07/10/18 12:11
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-7
Matrix: Solid
Percent Solids: 69.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 11:53	EEN	TAL CHI

Client Sample ID: SD004-0.0/0.1-2018
Lab Sample ID: 500-148287-12
Date Collected: 07/10/18 13:03
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440674	07/12/18 14:13	LWN	TAL CHI

Client Sample ID: SD004-0.0/0.1-2018
Lab Sample ID: 500-148287-12
Date Collected: 07/10/18 13:03
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 12:05	EEN	TAL CHI

Client Sample ID: SD004-0.0/0.1-2018/D
Lab Sample ID: 500-148287-13
Date Collected: 07/10/18 13:03
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440674	07/12/18 14:13	LWN	TAL CHI

Client Sample ID: SD004-0.0/0.1-2018/D
Lab Sample ID: 500-148287-13
Date Collected: 07/10/18 13:03
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 12:09	EEN	TAL CHI

Client Sample ID: SD009-0.0/0.3-2018
Lab Sample ID: 500-148287-15
Date Collected: 07/10/18 13:34
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440674	07/12/18 14:13	LWN	TAL CHI

Client Sample ID: SD009-0.0/0.3-2018
Lab Sample ID: 500-148287-15
Date Collected: 07/10/18 13:34
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 36.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 12:13	EEN	TAL CHI

Client Sample ID: SD006-0.0/0.5-2018
Date Collected: 07/10/18 14:48
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440687	07/12/18 14:51	LWN	TAL CHI

Client Sample ID: SD006-0.0/0.5-2018
Date Collected: 07/10/18 14:48
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-21
Matrix: Solid
Percent Solids: 36.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 12:32	EEN	TAL CHI

Client Sample ID: SD007B-0.0/0.5-2018
Date Collected: 07/10/18 14:45
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440687	07/12/18 14:51	LWN	TAL CHI

Client Sample ID: SD007B-0.0/0.5-2018
Date Collected: 07/10/18 14:45
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-23
Matrix: Solid
Percent Solids: 45.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 12:36	EEN	TAL CHI

Client Sample ID: SD005B-0.0/0.5-2018
Date Collected: 07/10/18 16:18
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440687	07/12/18 14:51	LWN	TAL CHI

Client Sample ID: SD005B-0.0/0.5-2018
Date Collected: 07/10/18 16:18
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-24
Matrix: Solid
Percent Solids: 44.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 12:40	EEN	TAL CHI

Client Sample ID: SD005B-0.5/1.0-2018
Lab Sample ID: 500-148287-25
Date Collected: 07/10/18 16:19
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440687	07/12/18 14:51	LWN	TAL CHI

Client Sample ID: SD005B-0.5/1.0-2018
Lab Sample ID: 500-148287-25
Date Collected: 07/10/18 16:19
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 56.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 12:52	EEN	TAL CHI

Client Sample ID: SD011-0.0/0.5-2018
Lab Sample ID: 500-148287-34
Date Collected: 07/09/18 14:18
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440687	07/12/18 14:51	LWN	TAL CHI

Client Sample ID: SD011-0.0/0.5-2018
Lab Sample ID: 500-148287-34
Date Collected: 07/09/18 14:18
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 30.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 12:56	EEN	TAL CHI

Client Sample ID: SD012-0.0/0.14-2018
Lab Sample ID: 500-148287-35
Date Collected: 07/10/18 09:40
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440687	07/12/18 14:51	LWN	TAL CHI

Client Sample ID: SD012-0.0/0.14-2018
Lab Sample ID: 500-148287-35
Date Collected: 07/10/18 09:40
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 13:00	EEN	TAL CHI

Client Sample ID: SD014-0.0/0.3-2018
Lab Sample ID: 500-148287-37
Date Collected: 07/09/18 17:02
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440687	07/12/18 14:51	LWN	TAL CHI

Client Sample ID: SD014-0.0/0.3-2018
Lab Sample ID: 500-148287-37
Date Collected: 07/09/18 17:02
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 59.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 13:20	EEN	TAL CHI

Client Sample ID: SD016-0.0/0.12-2018
Lab Sample ID: 500-148287-41
Date Collected: 07/09/18 17:25
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440732	07/12/18 18:18	PFK	TAL CHI

Client Sample ID: SD016-0.0/0.12-2018
Lab Sample ID: 500-148287-41
Date Collected: 07/09/18 17:25
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 72.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 13:24	EEN	TAL CHI

Client Sample ID: SD016-0.0/0.12-2018/D
Lab Sample ID: 500-148287-42
Date Collected: 07/09/18 17:25
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440732	07/12/18 18:18	PFK	TAL CHI

Client Sample ID: SD016-0.0/0.12-2018/D
Lab Sample ID: 500-148287-42
Date Collected: 07/09/18 17:25
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 70.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 13:28	EEN	TAL CHI

Client Sample ID: SD017-0.0/0.5-2018
Lab Sample ID: 500-148287-45
Date Collected: 07/09/18 11:07
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440732	07/12/18 18:18	PFK	TAL CHI

Client Sample ID: SD017-0.0/0.5-2018
Lab Sample ID: 500-148287-45
Date Collected: 07/09/18 11:07
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 13:40	EEN	TAL CHI

Client Sample ID: SD017-0.5/0.98-2018
Lab Sample ID: 500-148287-46
Date Collected: 07/09/18 11:07
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440732	07/12/18 18:18	PFK	TAL CHI

Client Sample ID: SD017-0.5/0.98-2018
Lab Sample ID: 500-148287-46
Date Collected: 07/09/18 11:07
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 13:44	EEN	TAL CHI

Client Sample ID: SD018-0.0/0.5-2018
Lab Sample ID: 500-148287-48
Date Collected: 07/09/18 12:28
Matrix: Solid
Date Received: 07/12/18 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440732	07/12/18 18:18	PFK	TAL CHI

Client Sample ID: SD018-0.0/0.5-2018
Lab Sample ID: 500-148287-48
Date Collected: 07/09/18 12:28
Matrix: Solid
Date Received: 07/12/18 09:15
Percent Solids: 31.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 13:48	EEN	TAL CHI

Client Sample ID: EB001-2018
Date Collected: 07/09/18 17:46
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-49
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			440701	07/12/18 15:51	BDE	TAL CHI
Total Recoverable	Analysis	200.7 Rev 4.4		1	440860	07/13/18 12:35	JEF	TAL CHI

Client Sample ID: EB002-2018
Date Collected: 07/10/18 19:00
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-50
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			440701	07/12/18 15:51	BDE	TAL CHI
Total Recoverable	Analysis	200.7 Rev 4.4		1	440860	07/13/18 12:39	JEF	TAL CHI

Client Sample ID: SD008-0.0/0.2-2018
Date Collected: 07/10/18 08:36
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-51
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	440732	07/12/18 18:18	PFK	TAL CHI

Client Sample ID: SD008-0.0/0.2-2018
Date Collected: 07/10/18 08:36
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-51
Matrix: Solid
Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			440708	07/12/18 16:09	BDE	TAL CHI
Total/NA	Analysis	6010B		1	440857	07/13/18 13:52	EEN	TAL CHI

Client Sample ID: FB001-2018
Date Collected: 07/10/18 19:05
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-55
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			440701	07/12/18 15:51	BDE	TAL CHI
Total Recoverable	Analysis	200.7 Rev 4.4		1	440860	07/13/18 12:51	JEF	TAL CHI

Client Sample ID: WC001
Date Collected: 07/11/18 12:16
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-56
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			440847	07/13/18 13:21	JLC	TAL CHI
TCLP	Prep	3010A			440994	07/16/18 07:32	SAH	TAL CHI
TCLP	Analysis	6010B		1	441160	07/16/18 19:30	EEN	TAL CHI

Lab Chronicle

Client: Tyco Fire Protection Products
Project/Site: Sample Analysis

TestAmerica Job ID: 500-148287-1

Client Sample ID: WC002
Date Collected: 07/11/18 12:15
Date Received: 07/12/18 09:15

Lab Sample ID: 500-148287-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			440847	07/13/18 13:21	JLC	TAL CHI
TCLP	Prep	3010A			440994	07/16/18 07:32	SAH	TAL CHI
TCLP	Analysis	6010B		1	441160	07/16/18 19:34	EEN	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Tyco Fire Protection Products
TestAmerica Job ID: 500-148287-1
Project/Site: Sample Analysis

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18 *

Analysis Method	Prep Method	Matrix	Analyte

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tyco Fire Protection Products
Project/Site: Sample Analysis

TestAmerica Job ID: 500-148287-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
200.7	Preparation, Total Recoverable Metals	EPA	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tyco Fire Protection Products
Project/Site: Sample Analysis

TestAmerica Job ID: 500-148287-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-148287-2	SD015-0.0/0.09-2018	Solid	07/10/18 10:20	07/12/18 09:15
500-148287-5	SD010-0.0/0.4-2018	Solid	07/10/18 11:23	07/12/18 09:15
500-148287-7	SD013-0.0/0.05-2018	Solid	07/10/18 12:11	07/12/18 09:15
500-148287-12	SD004-0.0/0.1-2018	Solid	07/10/18 13:03	07/12/18 09:15
500-148287-13	SD004-0.0/0.1-2018/D	Solid	07/10/18 13:03	07/12/18 09:15
500-148287-15	SD009-0.0/0.3-2018	Solid	07/10/18 13:34	07/12/18 09:15
500-148287-21	SD006-0.0/0.5-2018	Solid	07/10/18 14:48	07/12/18 09:15
500-148287-23	SD007B-0.0/0.5-2018	Solid	07/10/18 14:45	07/12/18 09:15
500-148287-24	SD005B-0.0/0.5-2018	Solid	07/10/18 16:18	07/12/18 09:15
500-148287-25	SD005B-0.5/1.0-2018	Solid	07/10/18 16:19	07/12/18 09:15
500-148287-34	SD011-0.0/0.5-2018	Solid	07/09/18 14:18	07/12/18 09:15
500-148287-35	SD012-0.0/0.14-2018	Solid	07/10/18 09:40	07/12/18 09:15
500-148287-37	SD014-0.0/0.3-2018	Solid	07/09/18 17:02	07/12/18 09:15
500-148287-41	SD016-0.0/0.12-2018	Solid	07/09/18 17:25	07/12/18 09:15
500-148287-42	SD016-0.0/0.12-2018/D	Solid	07/09/18 17:25	07/12/18 09:15
500-148287-45	SD017-0.0/0.5-2018	Solid	07/09/18 11:07	07/12/18 09:15
500-148287-46	SD017-0.5/0.98-2018	Solid	07/09/18 11:07	07/12/18 09:15
500-148287-48	SD018-0.0/0.5-2018	Solid	07/09/18 12:28	07/12/18 09:15
500-148287-49	EB001-2018	Water	07/09/18 17:46	07/12/18 09:15
500-148287-50	EB002-2018	Water	07/10/18 19:00	07/12/18 09:15
500-148287-51	SD008-0.0/0.2-2018	Solid	07/10/18 08:36	07/12/18 09:15
500-148287-55	FB001-2018	Water	07/10/18 19:05	07/12/18 09:15
500-148287-56	WC001	Solid	07/11/18 12:16	07/12/18 09:15
500-148287-57	WC002	Solid	07/11/18 12:15	07/12/18 09:15

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Chicago Job Number: 500-148287-1

SDG No.:

Project: Sample Analysis

Client Sample ID	Lab Sample ID
SD015-0.0/0.09-2018	500-148287-2
SD010-0.0/0.4-2018	500-148287-5
SD013-0.0/0.05-2018	500-148287-7
SD004-0.0/0.1-2018	500-148287-12
SD004-0.0/0.1-2018/D	500-148287-13
SD009-0.0/0.3-2018	500-148287-15
SD006-0.0/0.5-2018	500-148287-21
SD007B-0.0/0.5-2018	500-148287-23
SD005B-0.0/0.5-2018	500-148287-24
SD005B-0.5/1.0-2018	500-148287-25
SD011-0.0/0.5-2018	500-148287-34
SD012-0.0/0.14-2018	500-148287-35
SD014-0.0/0.3-2018	500-148287-37
SD016-0.0/0.12-2018	500-148287-41
SD016-0.0/0.12-2018/D	500-148287-42
SD017-0.0/0.5-2018	500-148287-45
SD017-0.5/0.98-2018	500-148287-46
SD018-0.0/0.5-2018	500-148287-48
EB001-2018	500-148287-49
EB002-2018	500-148287-50
SD008-0.0/0.2-2018	500-148287-51
FB001-2018	500-148287-55
WC001	500-148287-56
WC002	500-148287-57

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD015-0.0/0.09-2018 Lab Sample ID: 500-148287-2

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/10/2018 10:20

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 59.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.7	1.5	0.50	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD010-0.0/0.4-2018 Lab Sample ID: 500-148287-5

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/10/2018 11:23

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 57.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	9.0	1.7	0.56	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD013-0.0/0.05-2018 Lab Sample ID: 500-148287-7

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/10/2018 12:11

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 69.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	15	1.3	0.44	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD004-0.0/0.1-2018 Lab Sample ID: 500-148287-12

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/10/2018 13:03

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 79.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	1.9	1.2	0.41	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD004-0.0/0.1-2018/D
Lab Sample ID: 500-148287-13
Lab Name: TestAmerica Chicago
Job No.: 500-148287-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/10/2018 13:03
Reporting Basis: DRY
Date Received: 07/12/2018 09:15
% Solids: 82.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	2.6	1.2	0.39	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD009-0.0/0.3-2018 Lab Sample ID: 500-148287-15

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/10/2018 13:34

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 36.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	380	2.5	0.85	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD006-0.0/0.5-2018 Lab Sample ID: 500-148287-21

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/10/2018 14:48

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 36.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	45	2.6	0.89	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD007B-0.0/0.5-2018 Lab Sample ID: 500-148287-23

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/10/2018 14:45

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 45.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	17	2.0	0.67	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD005B-0.0/0.5-2018 Lab Sample ID: 500-148287-24

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/10/2018 16:18

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 44.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	41	2.1	0.71	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD005B-0.5/1.0-2018 Lab Sample ID: 500-148287-25

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/10/2018 16:19

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 56.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	85	1.7	0.59	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD011-0.0/0.5-2018 Lab Sample ID: 500-148287-34

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/09/2018 14:18

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 30.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	26	3.1	1.1	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD012-0.0/0.14-2018 Lab Sample ID: 500-148287-35

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/10/2018 09:40

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 71.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.2	1.4	0.48	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD014-0.0/0.3-2018 Lab Sample ID: 500-148287-37

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/09/2018 17:02

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 59.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	11	1.5	0.52	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD016-0.0/0.12-2018 Lab Sample ID: 500-148287-41

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/09/2018 17:25

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 72.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	2.5	1.2	0.41	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD016-0.0/0.12-2018/D
Lab Sample ID: 500-148287-42
Lab Name: TestAmerica Chicago
Job No.: 500-148287-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/09/2018 17:25
Reporting Basis: DRY
Date Received: 07/12/2018 09:15
% Solids: 70.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	1.9	1.2	0.42	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD017-0.0/0.5-2018 Lab Sample ID: 500-148287-45

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/09/2018 11:07

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 88.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	1.7	1.1	0.37	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD017-0.5/0.98-2018 Lab Sample ID: 500-148287-46

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/09/2018 11:07

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 87.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.8	1.1	0.39	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD018-0.0/0.5-2018 Lab Sample ID: 500-148287-48

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/09/2018 12:28

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 31.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	210	2.9	0.98	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: EB001-2018 Lab Sample ID: 500-148287-49

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Water Date Sampled: 07/09/2018 17:46

Reporting Basis: WET Date Received: 07/12/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	<0.0021	0.0050	0.0021	mg/L			1	200.7 Rev 4.4

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: EB002-2018 Lab Sample ID: 500-148287-50

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Water Date Sampled: 07/10/2018 19:00

Reporting Basis: WET Date Received: 07/12/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	<0.0021	0.0050	0.0021	mg/L			1	200.7 Rev 4.4

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SD008-0.0/0.2-2018 Lab Sample ID: 500-148287-51

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/10/2018 08:36

Reporting Basis: DRY Date Received: 07/12/2018 09:15

% Solids: 73.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	2.8	1.2	0.42	mg/Kg			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: FB001-2018 Lab Sample ID: 500-148287-55

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Water Date Sampled: 07/10/2018 19:05

Reporting Basis: WET Date Received: 07/12/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	<0.0021	0.0050	0.0021	mg/L			1	200.7 Rev 4.4

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: WC001 Lab Sample ID: 500-148287-56

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/11/2018 12:16

Reporting Basis: WET Date Received: 07/12/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.90	0.050	0.010	mg/L			1	6010B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: WC002 Lab Sample ID: 500-148287-57

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG ID.:

Matrix: Solid Date Sampled: 07/11/2018 12:15

Reporting Basis: WET Date Received: 07/12/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.063	0.050	0.010	mg/L			1	6010B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

ICV Source: M18FICVIC_00001 Concentration Units: mg/L

CCV Source: M18GCCVIC_00001

Analyte	ICV 500-440860/7 07/13/2018 10:24				CCV 500-440860/14 07/13/2018 10:52				CCV 500-440860/28 07/13/2018 11:54			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.401		0.400	100	0.496		0.500	99	0.509		0.500	102

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 Chicago Job No.: 500-148287-1

SDG No.:

ICV Source: M18FICVIC_00001 Concentration Units: mg/L

CCV Source: M18GCCVIC_00001

Analyte	CCV 500-440860/40 07/13/2018 12:43				CCV 500-440860/53 07/13/2018 13:37							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.499		0.500	100	0.497		0.500	99				

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

ICV Source: M18FICVIC_00001 Concentration Units: mg/L

CCV Source: M18GCCVIC_00001

Analyte	ICV 500-441160/7 07/16/2018 16:55				CCV 500-441160/29 07/16/2018 18:28				CCV 500-441160/41 07/16/2018 19:17			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.404		0.400	101	0.505		0.500	101	0.501		0.500	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 Chicago Job No.: 500-148287-1

SDG No.:

ICV Source: M18FICVIC_00001 Concentration Units: mg/L

CCV Source: M18GCCVIC_00001

Analyte	CCV 500-441160/53 07/16/2018 20:07											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.502		0.500	100								

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

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

ICV Source: M18FICVIC_00001 Concentration Units: mg/L

CCV Source: M18GCCVIC_00001

Analyte	ICV 500-440857/7 07/13/2018 10:19				CCV 500-440857/18 07/13/2018 11:07				CCV 500-440857/30 07/13/2018 11:57			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.398		0.400	100	0.505		0.500	101	0.503		0.500	101

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

ICV Source: M18FICVIC_00001 Concentration Units: mg/L

CCV Source: M18GCCVIC_00001

Analyte	CCV 500-440857/42 07/13/2018 12:44				CCV 500-440857/54 07/13/2018 13:32				CCV 500-440857/60 07/13/2018 13:56			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.477		0.500	95	0.476		0.500	95	0.480		0.500	96

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Method: 200.7 Rev 4.4 Instrument ID: ICP6

Lab Sample ID: CRI 500-440860/11 Concentration Units: mg/L

CRQL Check Standard Source: M18FCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.0200	0.0205		102	50-150

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Method: 6010B Instrument ID: ICP6

Lab Sample ID: CRI 500-441160/10 Concentration Units: mg/L

CRQL Check Standard Source: M18FCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.0200	0.0178		89	50-150

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Method: 6010B Instrument ID: ICP8

Lab Sample ID: CRI 500-440857/10 Concentration Units: mg/L

CRQL Check Standard Source: M18FCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.0200	0.0210		105	50-150

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 500-440860/8 07/13/2018 10:28		CCB 500-440860/15 07/13/2018 10:56		CCB 500-440860/29 07/13/2018 11:58		CCB 500-440860/41 07/13/2018 12:46	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.0050		<0.0050		<0.0050		<0.0050	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 500-440860/54 07/13/2018 13:41							
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.0050							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 500-441160/8 07/16/2018 16:59		CCB 500-441160/30 07/16/2018 18:32		CCB 500-441160/42 07/16/2018 19:21		CCB 500-441160/54 07/16/2018 20:11	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.010		<0.010		<0.010		<0.010	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 500-440857/8 07/13/2018 10:23		CCB 500-440857/19 07/13/2018 11:11		CCB 500-440857/31 07/13/2018 12:01		CCB 500-440857/43 07/13/2018 12:48	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.0050		<0.0050		<0.0050		<0.0050	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 500-440857/55 07/13/2018 13:36		CCB 500-440857/61 07/13/2018 14:00					
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.0050		<0.0050					

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 500-440701/1-A

Instrument Code: ICP6 Batch No.: 440860

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	<0.0021			200.7

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 500-440708/1-A

Instrument Code: ICP8 Batch No.: 440857

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	<0.34			6010B

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: LB 500-440847/1-B

Instrument Code: ICP6 Batch No.: 441160

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	<0.010			6010B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Lab Sample ID: ICSA 500-440860/12 Instrument ID: ICP6

Lab File ID: ICS Source: M18GISAIC_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**-0.0034**	
Aluminum	*500*	*495*	*99*
Antimony		*-0.0052*	
Barium		*-0.0004*	
Beryllium		*0.0007*	
Boron		*-0.0004*	
Cadmium		*0.0012*	
Calcium	*500*	*473*	*95*
Chromium		*0.0014*	
Cobalt		*-0.0017*	
Copper		*0.0032*	
Iron	*200*	*187*	*93*
Lead		*0.0004*	
Li		*0.0003*	
Magnesium	*500*	*506*	*101*
Manganese		*-0.0010*	
Molybdenum		*-0.0008*	
Nickel		*-0.0006*	
Potassium		*-0.0182*	
Selenium		*-0.0030*	
Silicon		*-0.0019*	
Silver		*0.0000*	
Sodium		*0.0229*	
Strontium		*0.0045*	
Thallium		*0.0046*	
Tin		*0.0070*	
Titanium		*-0.0037*	
Vanadium		*-0.0006*	
Zinc		*0.0036*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Lab Sample ID: ICSAB 500-440860/13 Instrument ID: ICP6

Lab File ID: ICS Source: M18GISBIC_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**0.100**	**0.0922**	**92**
Aluminum	*500*	*496*	*99*
Antimony	*0.600*	*0.548*	*91*
Barium	*0.500*	*0.479*	*96*
Beryllium	*0.500*	*0.503*	*101*
Boron		*-0.0012*	
Cadmium	*1.00*	*0.990*	*99*
Calcium	*500*	*480*	*96*
Chromium	*0.500*	*0.470*	*94*
Cobalt	*0.500*	*0.511*	*102*
Copper	*0.500*	*0.571*	*114*
Iron	*200*	*188*	*94*
Lead	*0.0500*	*0.0491*	*98*
Li		*0.0002*	
Magnesium	*500*	*509*	*102*
Manganese	*0.500*	*0.464*	*93*
Molybdenum		*-0.0020*	
Nickel	*1.00*	*0.990*	*99*
Potassium		*-0.0289*	
Selenium	*0.0500*	*0.0420*	*84*
Silicon		*-0.0066*	
Silver	*0.200*	*0.218*	*109*
Sodium		*0.0243*	
Strontium		*0.0044*	
Thallium	*0.100*	*0.100*	*100*
Tin		*0.0054*	
Titanium		*-0.0037*	
Vanadium	*0.500*	*0.485*	*97*
Zinc	*1.00*	*1.02*	*102*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Lab Sample ID: ICSA 500-441160/12 Instrument ID: ICP6

Lab File ID: ICS Source: M18GISAIC_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**-0.0016**	
Aluminum	*500*	*490*	*98*
Antimony		*0.0027*	
Barium		*-0.0001*	
Beryllium		*0.0007*	
Bismuth		*-0.0024*	
Boron		*-0.0043*	
Cadmium		*0.0011*	
Calcium	*500*	*478*	*96*
Chromium		*0.0021*	
Cobalt		*-0.0007*	
Copper		*0.0010*	
Iron	*200*	*187*	*94*
Li		*0.0001*	
Magnesium	*500*	*505*	*101*
Manganese		*0.0001*	
Molybdenum		*-0.0005*	
Nickel		*0.0040*	
Potassium		*-0.0251*	
Selenium		*0.0045*	
Silicon		*0.0020*	
Silver		*0.0009*	
Sodium		*0.0279*	
Strontium		*0.0046*	
Thallium		*-0.0013*	
Tin		*0.0075*	
Titanium		*-0.0020*	
Vanadium		*0.0004*	
Zinc		*0.0035*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Lab Sample ID: ICSAB 500-441160/13 Instrument ID: ICP6

Lab File ID: ICS Source: M18GISBIC_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Arsenic	**0.100**	**0.0962**	**96**
Aluminum	*500*	*489*	*98*
Antimony	*0.600*	*0.553*	*92*
Barium	*0.500*	*0.481*	*96*
Beryllium	*0.500*	*0.498*	*100*
Bismuth		*0.0001*	
Boron		*-0.0054*	
Cadmium	*1.00*	*1.00*	*100*
Calcium	*500*	*479*	*96*
Chromium	*0.500*	*0.464*	*93*
Cobalt	*0.500*	*0.509*	*102*
Copper	*0.500*	*0.555*	*111*
Iron	*200*	*188*	*94*
Lead	*0.0500*	*0.0403*	*81*
Li		*0.0001*	
Magnesium	*500*	*506*	*101*
Manganese	*0.500*	*0.459*	*92*
Molybdenum		*-0.0016*	
Nickel	*1.00*	*0.987*	*99*
Potassium		*-0.0273*	
Selenium	*0.0500*	*0.0439*	*88*
Silicon		*0.0010*	
Silver	*0.200*	*0.219*	*110*
Sodium		*0.0211*	
Strontium		*0.0045*	
Thallium	*0.100*	*0.0943*	*94*
Tin		*0.0071*	
Titanium		*-0.0031*	
Vanadium	*0.500*	*0.498*	*100*
Zinc	*1.00*	*0.994*	*99*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Lab Sample ID: ICSA 500-440857/11 Instrument ID: ICP8

Lab File ID: P8071318AA.asc ICS Source: M18GISAIC_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**-0.0014**	
Aluminum	*500*	*530*	*106*
Antimony		*0.0027*	
Barium		*-0.0001*	
Beryllium		*0.0012*	
Bismuth		*-0.0009*	
Boron		*0.0021*	
Cadmium		*0.0004*	
Calcium	*500*	*494*	*99*
Chromium		*0.0034*	
Cobalt		*-0.0014*	
Copper		*-0.0008*	
Iron	*200*	*196*	*98*
Lead		*-0.0008*	
Li		*0.0016*	
Magnesium	*500*	*508*	*102*
Manganese		*-0.0011*	
Molybdenum		*0.0048*	
Nickel		*-0.0038*	
Potassium		*-0.0366*	
Selenium		*0.0037*	
Silicon		*-0.0014*	
Silver		*-0.0006*	
Sodium		*0.0189*	
Strontium		*-0.0006*	
Thallium		*-0.0041*	
Tin		*0.0131*	
Titanium		*0.0017*	
Vanadium		*-0.0004*	
Zinc		*-0.0006*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Lab Sample ID: ICSAB 500-440857/12 Instrument ID: ICP8

Lab File ID: P8071318AA.asc ICS Source: M18GISBIC_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**0.100**	**0.0989**	**99**
Aluminum	*500*	*532*	*106*
Antimony	*0.600*	*0.602*	*100*
Barium	*0.500*	*0.504*	*101*
Beryllium	*0.500*	*0.538*	*108*
Bismuth		*-0.0005*	
Boron		*0.0008*	
Cadmium	*1.00*	*1.04*	*104*
Calcium	*500*	*495*	*99*
Chromium	*0.500*	*0.455*	*91*
Cobalt	*0.500*	*0.515*	*103*
Copper	*0.500*	*0.552*	*110*
Iron	*200*	*197*	*98*
Lead	*0.0500*	*0.0497*	*99*
Li		*0.0014*	
Magnesium	*500*	*509*	*102*
Manganese	*0.500*	*0.476*	*95*
Molybdenum		*0.0045*	
Nickel	*1.00*	*0.996*	*100*
Potassium		*-0.0443*	
Selenium	*0.0500*	*0.0528*	*106*
Silicon		*-0.0020*	
Silver	*0.200*	*0.215*	*108*
Sodium		*0.0118*	
Strontium		*-0.0006*	
Thallium	*0.100*	*0.0850*	*85*
Tin		*0.0132*	
Titanium		*0.0012*	
Vanadium	*0.500*	*0.465*	*93*
Zinc	*1.00*	*1.03*	*103*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: SD009-0.0/0.3-2018 MS
Lab ID: 500-148287-15 MS
Lab Name: TestAmerica Chicago
Job No.: 500-148287-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 36.7

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	354		380		26.5	-91	75-125	4	6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: SD012-0.0/0.14-2018 MS
Lab ID: 500-148287-35 MS
Lab Name: TestAmerica Chicago
Job No.: 500-148287-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 71.4

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	14.5		3.2		13.0	87	75-125		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: FB001-2018 MS
Lab ID: 500-148287-55 MS
Lab Name: TestAmerica Chicago
Job No.: 500-148287-1
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
Arsenic	0.0469		<0.0021		0.0500	94	70-130		200.7 Rev 4.4

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: SD009-0.0/0.3-2018 MSD
Lab ID: 500-148287-15 MSD
Lab Name: TestAmerica Chicago
Job No.: 500-148287-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 36.7

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	348		26.8	-110	75-125	2	20	4	6010B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: SD012-0.0/0.14-2018 MSD
Lab ID: 500-148287-35 MSD
Lab Name: TestAmerica Chicago
Job No.: 500-148287-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 71.4

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	13.8		12.4	85	75-125	5	20		6010B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

6-IN
DUPLICATES
METALS

Client ID: SD009-0.0/0.3-2018 DU | Lab ID: 500-148287-15 DU

Lab Name: TestAmerica Chicago | Job No.: 500-148287-1

SDG No.:

% Solids for Sample: 36.7 | % Solids for Duplicate: 36.7

Matrix: Solid | Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	2.4	380		382		1		6010B

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: SD012-0.0/0.14-2018 DU | Lab ID: 500-148287-35 DU

Lab Name: TestAmerica Chicago | Job No.: 500-148287-1

SDG No.:

% Solids for Sample: 71.4 | % Solids for Duplicate: 71.4

Matrix: Solid | Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	1.3	3.2		3.36		4		6010B

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

FORM VI-IN

6-IN
DUPLICATES
METALS - TOTAL RECOVERABLE

Client ID: FB001-2018 DU
Lab ID: 500-148287-55 DU
Lab Name: TestAmerica Chicago
Job No.: 500-148287-1
SDG No.:
% Solids for Sample:
% Solids for Duplicate:
Matrix: Water
Concentration Units: mg/L

Analyte	Control Limit	Sample (S) C		Duplicate (D) C		RPD	Q	Method
Arsenic	0.0050	<0.0021		<0.0021		NC		200.7 Rev 4.4

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 500-440701/2-A

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

Sample Matrix: Water LCS Source: M18GSPKIC_00002

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	0.0500	0.0492		98	85	115		200.7 Rev 4.4

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 500-440708/2-A

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

Sample Matrix: Solid LCS Source: M18GSPKIC_00002

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	10.0	9.16		92	80	120		6010B

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 500-440994/2-A

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

Sample Matrix: Water LCS Source: M18GSPKIC_00002

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	0.100	0.0940		94	80	120		6010B

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: 500-148287-15

SDG No:

Lab Name: TestAmerica Chicago Job No: 500-148287-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	380		380		0.51		6010B

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 500-148287-35

SDG No:

Lab Name: TestAmerica Chicago Job No: 500-148287-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	3.2		4.64	J	NC		6010B

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TOTAL RECOVERABLE

Lab ID: 500-148287-55

SDG No:

Lab Name: TestAmerica Chicago Job No: 500-148287-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	<0.0021		<0.010		NC		200.7 Rev 4.4

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Chicago Job Number: 500-148287-1

SDG Number:

Matrix: Water Instrument ID: ICP6

Method: 200.7 Rev 4.4 MDL Date: 03/29/2017 09:11

Prep Method: 200.7

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Arsenic		0.01	0.00418

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Chicago Job Number: 500-148287-1

SDG Number:

Matrix: Water Instrument ID: ICP6

Method: 200.7 Rev 4.4 XMDL Date: 05/25/2006 08:57

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic		0.01	0.005

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-148287-1

SDG Number:

Matrix: Solid Instrument ID: ICP8

Method: 6010B MDL Date: 03/29/2017 09:48

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Arsenic		1	0.342

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-148287-1

SDG Number:

Matrix: Solid Instrument ID: ICP8

Method: 6010B XMDL Date: 05/25/2006 09:03

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic		0.01	0.005

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Chicago Job Number: 500-148287-1

SDG Number:

Matrix: Solid Instrument ID: ICP6

Method: 6010B MDL Date: 12/10/2013 10:20

Prep Method: 3010A

Leach Method: 1311

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Arsenic		0.05	0.01

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Chicago Job Number: 500-148287-1

SDG Number:

Matrix: Solid Instrument ID: ICP6

Method: 6010B XMDL Date: 01/28/2008 10:37

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic		0.01	0.01

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-148287-1

SDG No.:

ICP-AES Instrument ID: ICP6 Date: 07/12/2018

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
Aluminum	308.215										0.005751				
Antimony	206.833		0.000010								-0.000353		0.005348	0.002026	0.000013
Arsenic	189.042		-0.0000007		0.000130						-0.000753		-0.005052		-0.000007
Barium	455.403										-0.000181				
Beryllium	234.861														0.000009
Bismuth	223.061														0.000024
Boron	208.959														
Cadmium	228.802			0.009326		-0.000228					0.000042				-0.000000
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616					-0.000350							-0.000258		-0.000001
Copper	324.754														0.000006
Iron	271.441										-0.012159	0.082285			
Lead	220.353		-0.000054	0.000149							0.000241	0.000144		0.002446	0.000056
Lithium	670.784										0.000120				
Magnesium	279.079										-0.007529				-0.000045
Manganese	257.610														0.000010
Molybdenum	202.030		-0.000003												-0.000021
Nickel	231.604			0.000009								0.000272			0.000043
Potassium	766.490														
Selenium	196.090		0.000006								0.000307				-0.000008
Silicon	212.412														
Silver	328.068										-0.007037				-0.000001
Sodium	589.592														
Strontium	421.552												0.000173		
Thallium	190.856		-0.000009								-0.006310	0.002256	0.000276		0.000004
Tin	189.989														
Titanium	334.941	0.008939							0.000006				0.000189		
Vanadium	292.402														0.000020
Zinc	206.200		-0.000005										-0.000534		

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-148287-1

SDG No.:

ICP-AES Instrument ID: ICP6 Date: 07/12/2018

Analyte	Wave Length	K	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti
Aluminum	308.215					0.007252									
Antimony	206.833														-0.002346
Arsenic	189.042					-0.000592						-0.000128			
Barium	455.403														
Beryllium	234.861														
Bismuth	223.061														-0.007347
Boron	208.959					0.030203									
Cadmium	228.802											0.000017			
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														0.002231
Copper	324.754														
Iron	271.441														
Lead	220.353					-0.000314				-0.000229		0.000234		0.001527	
Lithium	670.784	0.000008		0.000009											
Magnesium	279.079				-0.003611	-0.001592									
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604	0.000006										-0.000071			
Potassium	766.490														
Selenium	196.090														
Silicon	212.412					0.014343									0.065294
Silver	328.068	0.000003													
Sodium	589.592														
Strontium	421.552														
Thallium	190.856														-0.000140
Tin	189.989														
Titanium	334.941														
Vanadium	292.402					-0.000716									0.000604
Zinc	206.200														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-148287-1

SDG No.:

ICP-AES Instrument ID: ICP6 Date: 07/12/2018

Analyte	Wave Length	Tl	V	Zn											
Aluminum	308.215		0.057034												
Antimony	206.833		-0.000255												
Arsenic	189.042														
Barium	455.403														
Beryllium	234.861														
Bismuth	223.061														
Boron	208.959														
Cadmium	228.802		0.000071												
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	324.754		-0.000275												
Iron	271.441		-0.000293												
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604	0.000816													
Potassium	766.490														
Selenium	196.090														
Silicon	212.412														
Silver	328.068														
Sodium	589.592														
Strontium	421.552														
Thallium	190.856		-0.000102												
Tin	189.989														
Titanium	334.941														
Vanadium	292.402														
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-148287-1

SDG No.:

ICP-AES Instrument ID: ICP8 Date: 07/10/2018

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
Aluminum	308.215										0.004614				
Antimony	206.833		0.000010								-0.000357		0.005194		0.000012
Arsenic	189.042		0.000012								-0.000653		-0.003667		-0.000007
Barium	455.403										-0.000368				
Beryllium	234.861														0.000007
Bismuth	223.061														0.000014
Boron	208.959														
Cadmium	228.802			0.005363		-0.000010					0.000046	0.000075			0.000007
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616					-0.000115							-0.000200		0.000003
Copper	324.754										-0.000148				0.000024
Iron	271.441										-0.012647	0.086504	0.008386		
Lead	220.353		-0.000031								0.000931			0.000134	0.000049
Lithium	670.784								0.000006		0.000107				
Magnesium	279.079														-0.000051
Manganese	257.610														0.000010
Molybdenum	202.030		-0.000011												-0.000025
Nickel	231.604											0.000496			0.000018
Potassium	766.490														
Selenium	196.090		-0.000059								0.000148				0.000017
Silicon	212.412														
Silver	328.068						0.000385				-0.006533				-0.000002
Sodium	589.592														
Strontium	421.552								0.000010		000154				
Thallium	190.856		-0.000011								-0.004222	0.003007	0.000436		0.000004
Tin	189.989										0.000154				
Titanium	334.941	0.003601							0.000003						
Vanadium	292.402														0.000020
Zinc	206.200		0.000003										-0.000534		

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-148287-1

SDG No.:

ICP-AES Instrument ID: ICP8 Date: 07/10/2018

Analyte	Wave Length	K	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti
Aluminum	308.215	0.000105				0.007252					0.007698				
Antimony	206.833														-0.002346
Arsenic	189.042					-0.000257									
Barium	455.403														
Beryllium	234.861														
Bismuth	223.061														-0.007347
Boron	208.959					0.016355									
Cadmium	228.802					0.000056						0.000011			
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616							0.000176							0.002231
Copper	324.754					0.000554									
Iron	271.441	0.000002		-0.000133											
Lead	220.353					-0.001752						0.000156			
Lithium	670.784														
Magnesium	279.079				-0.003611	-0.006776									
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090				0.000261	0									
Silicon	212.412					0.019471									
Silver	328.068														
Sodium	589.592														
Strontium	421.552														
Thallium	190.856														-0.000790
Tin	189.989														
Titanium	334.941														
Vanadium	292.402					-0.000772									0.000186
Zinc	206.200					0.000526									

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-148287-1

SDG No.:

ICP-AES Instrument ID: ICP8 Date: 07/10/2018

Analyte	Wave Length	Tl	V	Zn											
Aluminum	308.215		0.055333												
Antimony	206.833		-0.000066												
Arsenic	189.042														
Barium	455.403														
Beryllium	234.861														
Bismuth	223.061														
Boron	208.959														
Cadmium	228.802		0.000069												
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	324.754														
Iron	271.441		-0.000732												
Lead	220.353		-0.000178												
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	212.412														
Silver	328.068														
Sodium	589.592														
Strontium	421.552														
Thallium	190.856		-0.000102												
Tin	189.989														
Titanium	334.941														
Vanadium	292.402														
Zinc	206.200														

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago Job No: 500-148287-1

SDG No.:

Instrument ID: ICP6 Date: 07/10/2018 08:49

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		20	200.7 Rev 4.4
Arsenic		20	6010B

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago Job No: 500-148287-1

SDG No.:

Instrument ID: ICP8 Date: 07/10/2018 08:54

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		20	6010B

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Prep Method: 200.7

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-440701/1-A	07/12/2018 15:51	440701		50	25
LCS 500-440701/2-A	07/12/2018 15:51	440701		50	25
500-148287-49	07/12/2018 15:51	440701		50	25
500-148287-50	07/12/2018 15:51	440701		50	25
500-148287-55	07/12/2018 15:51	440701		50	25
500-148287-55 DU	07/12/2018 15:51	440701		50	25
500-148287-55 MS	07/12/2018 15:51	440701		50	25

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 500-440708/1-A	07/12/2018 16:09	440708	1		100
LCS 500-440708/2-A	07/12/2018 16:09	440708	1		100
500-148287-2	07/12/2018 16:09	440708	1.1588		100
500-148287-5	07/12/2018 16:09	440708	1.0457		100
500-148287-7	07/12/2018 16:09	440708	1.1283		100
500-148287-12	07/12/2018 16:09	440708	1.0419		100
500-148287-13	07/12/2018 16:09	440708	1.0545		100
500-148287-15	07/12/2018 16:09	440708	1.0967		100
500-148287-15 DU	07/12/2018 16:09	440708	1.1468		100
500-148287-15 MS	07/12/2018 16:09	440708	1.0300		100
500-148287-15 MSD	07/12/2018 16:09	440708	1.0192		100
500-148287-21	07/12/2018 16:09	440708	1.0470		100
500-148287-23	07/12/2018 16:09	440708	1.1196		100
500-148287-24	07/12/2018 16:09	440708	1.0894		100
500-148287-25	07/12/2018 16:09	440708	1.0148		100
500-148287-34	07/12/2018 16:09	440708	1.0552		100
500-148287-35	07/12/2018 16:09	440708	1.0055		100
500-148287-35 DU	07/12/2018 16:09	440708	1.0904		100
500-148287-35 MS	07/12/2018 16:09	440708	1.0787		100
500-148287-35 MSD	07/12/2018 16:09	440708	1.1280		100
500-148287-37	07/12/2018 16:09	440708	1.1053		100
500-148287-41	07/12/2018 16:09	440708	1.1449		100
500-148287-42	07/12/2018 16:09	440708	1.1457		100
500-148287-45	07/12/2018 16:09	440708	1.0551		100
500-148287-46	07/12/2018 16:09	440708	1.0113		100
500-148287-48	07/12/2018 16:09	440708	1.1259		100
500-148287-51	07/12/2018 16:09	440708	1.1246		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LB 500-440847/1-B	07/16/2018 07:32	440994		50	50
LCS 500-440994/2-A	07/16/2018 07:32	440994		50	50
500-148287-56	07/16/2018 07:32	440994		50	50
500-148287-57	07/16/2018 07:32	440994		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Instrument ID: ICP6 Analysis Method: 200.7 Rev 4.4

Start Date: 07/13/2018 10:00 End Date: 07/13/2018 14:34

Lab Sample Id	D/F	Type	Time	Analytes																								
				As																								
ZZZZZZ			10:00																									
ZZZZZZ			10:04																									
ZZZZZZ			10:08																									
ZZZZZZ			10:12																									
ZZZZZZ			10:16																									
ZZZZZZ			10:20																									
ICV 500-440860/7	1		10:24	X																								
ICBIS 500-440860/8	1		10:28	X																								
ZZZZZZ			10:32																									
ICVL 500-440860/10			10:36																									
CRI 500-440860/11	1		10:40	X																								
ICSA 500-440860/12	1		10:44	X																								
ICSAB 500-440860/13	1		10:48	X																								
CCV 500-440860/14	1		10:52	X																								
CCB 500-440860/15	1		10:56	X																								
ZZZZZZ			11:00																									
LRC 500-440860/17			11:08																									
MB 500-440701/1-A	1	R	11:13	X																								
LCS 500-440701/2-A	1	R	11:17	X																								
ZZZZZZ			11:21																									
ZZZZZZ			11:26																									
ZZZZZZ			11:30																									
ZZZZZZ			11:34																									
ZZZZZZ			11:38																									
ZZZZZZ			11:42																									
ZZZZZZ			11:46																									
ZZZZZZ			11:50																									
CCV 500-440860/28	1		11:54	X																								
CCB 500-440860/29	1		11:58	X																								
ZZZZZZ			12:02																									
ZZZZZZ			12:06																									
ZZZZZZ			12:10																									
ZZZZZZ			12:14																									
ZZZZZZ			12:18																									
ZZZZZZ			12:22																									
ZZZZZZ			12:26																									
ZZZZZZ			12:30																									
500-148287-49	1	R	12:35	X																								
500-148287-50	1	R	12:39	X																								
CCV 500-440860/40	1		12:43	X																								
CCB 500-440860/41	1		12:46	X																								
500-148287-55	1	R	12:51	X																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Instrument ID: ICP6 Analysis Method: 200.7 Rev 4.4

Start Date: 07/13/2018 10:00 End Date: 07/13/2018 14:34

Lab Sample Id	D/F	Type	Time	Analytes
				As
500-148287-55 SD	5	R	12:55	X
500-148287-55 DU	1	R	12:59	X
500-148287-55 MS	1	R	13:03	X
ZZZZZZ			13:09	
ZZZZZZ			13:13	
ZZZZZZ			13:17	
ZZZZZZ			13:21	
ZZZZZZ			13:25	
ZZZZZZ			13:29	
ZZZZZZ			13:33	
CCV 500-440860/53	1		13:37	X
CCB 500-440860/54	1		13:41	X
ZZZZZZ			13:45	
ZZZZZZ			13:49	
ZZZZZZ			13:53	
ZZZZZZ			13:59	
ZZZZZZ			14:03	
ZZZZZZ			14:07	
ZZZZZZ			14:11	
ZZZZZZ			14:15	
ZZZZZZ			14:19	
ZZZZZZ			14:23	
CCV 500-440860/65			14:27	
CCB 500-440860/66			14:30	
CCVL 500-440860/67			14:34	

Prep Types:
R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Instrument ID: ICP6 Analysis Method: 6010B

Start Date: 07/16/2018 16:31 End Date: 07/16/2018 21:59

Lab Sample Id	D/F	Type	Time	Analytes																								
				As																								
ZZZZZZ			16:31																									
ZZZZZZ			16:35																									
ZZZZZZ			16:39																									
ZZZZZZ			16:43																									
ZZZZZZ			16:47																									
ZZZZZZ			16:51																									
ICV 500-441160/7	1		16:55	X																								
ICBIS 500-441160/8	1		16:59	X																								
ICVL 500-441160/9			17:03																									
CRI 500-441160/10	1		17:07	X																								
LRC 500-441160/11			17:11																									
ICSA 500-441160/12	1		17:16	X																								
ICSAB 500-441160/13	1		17:20	X																								
ZZZZZZ			17:24																									
ZZZZZZ			17:28																									
CCV 500-441160/16			17:33																									
CCB 500-441160/17			17:37																									
ZZZZZZ			17:41																									
ZZZZZZ			17:47																									
ZZZZZZ			17:51																									
ZZZZZZ			17:55																									
ZZZZZZ			17:59																									
ZZZZZZ			18:04																									
ZZZZZZ			18:08																									
ZZZZZZ			18:12																									
ZZZZZZ			18:16																									
ZZZZZZ			18:20																									
ZZZZZZ			18:24																									
CCV 500-441160/29	1		18:28	X																								
CCB 500-441160/30	1		18:32	X																								
LB 500-440847/1-B	1	P	18:36	X																								
LCS 500-440994/2-A	1	T	18:40	X																								
ZZZZZZ			18:44																									
ZZZZZZ			18:48																									
ZZZZZZ			18:52																									
ZZZZZZ			18:57																									
ZZZZZZ			19:01																									
ZZZZZZ			19:05																									
ZZZZZZ			19:09																									
ZZZZZZ			19:13																									
CCV 500-441160/41	1		19:17	X																								
CCB 500-441160/42	1		19:21	X																								

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13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Instrument ID: ICP6 Analysis Method: 6010B

Start Date: 07/16/2018 16:31 End Date: 07/16/2018 21:59

Lab Sample Id	D/F	Type	Time	Analytes
				As
ZZZZZZ			19:25	
500-148287-56	1	P	19:30	X
500-148287-57	1	P	19:34	X
ZZZZZZ			19:38	
ZZZZZZ			19:42	
ZZZZZZ			19:46	
ZZZZZZ			19:50	
ZZZZZZ			19:54	
ZZZZZZ			19:58	
ZZZZZZ			20:03	
CCV 500-441160/53	1		20:07	X
CCB 500-441160/54	1		20:11	X
CCVL 500-441160/55			20:15	
ZZZZZZ			20:19	
ZZZZZZ			20:23	
ZZZZZZ			20:27	
ZZZZZZ			20:33	
ZZZZZZ			20:37	
ZZZZZZ			20:41	
ZZZZZZ			20:45	
ZZZZZZ			20:50	
ZZZZZZ			20:54	
ZZZZZZ			20:58	
CCV 500-441160/66			21:02	
CCB 500-441160/67			21:06	
CCVL 500-441160/68			21:10	
ZZZZZZ			21:14	
ZZZZZZ			21:18	
ZZZZZZ			21:22	
ZZZZZZ			21:27	
ZZZZZZ			21:31	
ZZZZZZ			21:35	
ZZZZZZ			21:39	
ZZZZZZ			21:43	
ZZZZZZ			21:47	
CCV 500-441160/78			21:51	
CCB 500-441160/79			21:55	
CCVL 500-441160/80			21:59	

Prep Types:
P = TCLP
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Instrument ID: ICP8 Analysis Method: 6010B

Start Date: 07/13/2018 09:55 End Date: 07/13/2018 14:04

Lab Sample Id	D/F	Type	Time	Analytes
				As
ZZZZZZ			09:55	
ZZZZZZ			09:59	
ZZZZZZ			10:03	
ZZZZZZ			10:07	
ZZZZZZ			10:11	
ZZZZZZ			10:15	
ICV 500-440857/7	1		10:19	X
ICBIS 500-440857/8	1		10:23	X
ICVL 500-440857/9			10:27	
CRI 500-440857/10	1		10:31	X
ICSA 500-440857/11	1		10:35	X
ICSAB 500-440857/12	1		10:39	X
CCV 500-440857/13			10:43	
CCB 500-440857/14			10:47	
ZZZZZZ			10:51	
ZZZZZZ			10:57	
ZZZZZZ			11:03	
CCV 500-440857/18	1		11:07	X
CCB 500-440857/19	1		11:11	X
ZZZZZZ			11:15	
ZZZZZZ			11:19	
ZZZZZZ			11:23	
ZZZZZZ			11:27	
ZZZZZZ			11:31	
MB 500-440708/1-A	1	T	11:37	X
LCS 500-440708/2-A	1	T	11:41	X
500-148287-2	1	T	11:45	X
500-148287-5	1	T	11:49	X
500-148287-7	1	T	11:53	X
CCV 500-440857/30	1		11:57	X
CCB 500-440857/31	1		12:01	X
500-148287-12	1	T	12:05	X
500-148287-13	1	T	12:09	X
500-148287-15	1	T	12:13	X
500-148287-15 SD	5	T	12:17	X
500-148287-15 DU	1	T	12:21	X
500-148287-15 MS	1	T	12:25	X
500-148287-15 MSD	1	T	12:28	X
500-148287-21	1	T	12:32	X
500-148287-23	1	T	12:36	X
500-148287-24	1	T	12:40	X
CCV 500-440857/42	1		12:44	X

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13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Instrument ID: ICP8 Analysis Method: 6010B

Start Date: 07/13/2018 09:55 End Date: 07/13/2018 14:04

Lab Sample Id	D/F	Type	Time	Analytes																								
				As																								
CCB 500-440857/43	1		12:48	X																								
500-148287-25	1	T	12:52	X																								
500-148287-34	1	T	12:56	X																								
500-148287-35	1	T	13:00	X																								
500-148287-35 SD	5	T	13:04	X																								
500-148287-35 DU	1	T	13:08	X																								
500-148287-35 MS	1	T	13:12	X																								
500-148287-35 MSD	1	T	13:16	X																								
500-148287-37	1	T	13:20	X																								
500-148287-41	1	T	13:24	X																								
500-148287-42	1	T	13:28	X																								
CCV 500-440857/54	1		13:32	X																								
CCB 500-440857/55	1		13:36	X																								
500-148287-45	1	T	13:40	X																								
500-148287-46	1	T	13:44	X																								
500-148287-48	1	T	13:48	X																								
500-148287-51	1	T	13:52	X																								
CCV 500-440857/60	1		13:56	X																								
CCB 500-440857/61	1		14:00	X																								
CCVL 500-440857/62			14:04																									

Prep Types:
T = Total/NA

FORM XIII-IN

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

ICP Instrument ID: ICP6 Start Date: 07/13/2018 End Date: 07/13/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 371.030	Q	Element	Q
ICV 500-440860/7	10:24										
ICBIS 500-440860/8	10:28										
CRI 500-440860/11	10:40	98		98		99		100			
ICSA 500-440860/12	10:44	84		100		92		95			
ICSAB 500-440860/13	10:48	77		93		93		96			
CCV 500-440860/14	10:52	93		101		101		100			
CCB 500-440860/15	10:56	101		102		103		101			
MB 500-440701/1-A	11:13	102		103		104		103			
LCS 500-440701/2-A	11:17	98		100		102		102			
CCV 500-440860/28	11:54	91		97		98		100			
CCB 500-440860/29	11:58	100		100		101		101			
500-148287-49	12:35	102		103		104		103			
500-148287-50	12:39	102		103		104		103			
CCV 500-440860/40	12:43	93		100		100		101			
CCB 500-440860/41	12:46	101		102		103		102			
500-148287-55	12:51	102		103		104		103			
500-148287-55 SD	12:55	101		103		102		102			
500-148287-55 DU	12:59	102		102		103		107			
500-148287-55 MS	13:03	99		101		102		103			
CCV 500-440860/53	13:37	93		100		101		101			
CCB 500-440860/54	13:41	102		102		103		102			

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

ICP Instrument ID: ICP6 Start Date: 07/16/2018 End Date: 07/16/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 371.030	Q	Element	Q
ICV 500-441160/7	16:55										
ICBIS 500-441160/8	16:59										
CRI 500-441160/10	17:07	101		101		100		101			
ICSA 500-441160/12	17:16	79		94		88		94			
ICSAB 500-441160/13	17:20	78		92		89		95			
CCV 500-441160/29	18:28	93		100		97		99			
CCB 500-441160/30	18:32	101		103		100		99			
LB 500-440847/1-B	18:36	88		101		84		93			
LCS 500-440994/2-A	18:40	98		100		99		100			
CCV 500-441160/41	19:17	96		103		99		99			
CCB 500-441160/42	19:21	103		105		102		100			
500-148287-56	19:30	86		101		82		91			
500-148287-57	19:34	85		100		81		90			
CCV 500-441160/53	20:07	96		104		99		99			
CCB 500-441160/54	20:11	103		105		102		100			

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

ICP Instrument ID: ICP8 Start Date: 07/13/2018 End Date: 07/13/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 371.030	Q	Element	Q
ICV 500-440857/7	10:19										
ICBIS 500-440857/8	10:23										
CRI 500-440857/10	10:31	97		97		98		99			
ICSA 500-440857/11	10:35	68		85		84		88			
ICSAB 500-440857/12	10:39	68		84		84		88			
CCV 500-440857/18	11:07	85		95		95		98			
CCB 500-440857/19	11:11	99		99		99		99			
MB 500-440708/1-A	11:37	96		95		99		98			
LCS 500-440708/2-A	11:41	91		94		96		98			
500-148287-2	11:45	73		88		89		94			
500-148287-5	11:49	68		84		85		91			
500-148287-7	11:53	71		87		89		94			
CCV 500-440857/30	11:57	85		95		95		99			
CCB 500-440857/31	12:01	99		99		99		100			
500-148287-12	12:05	69		83		85		92			
500-148287-13	12:09	68		81		83		89			
500-148287-15	12:13	71		85		86		91			
500-148287-15 SD	12:17	85		92		93		95			
500-148287-15 DU	12:21	74		88		88		92			
500-148287-15 MS	12:25	80		96		97		101			
500-148287-15 MSD	12:28	80		96		97		101			
500-148287-21	12:32	84		99		99		102			
500-148287-23	12:36	85		99		99		103			
500-148287-24	12:40	83		99		99		103			
CCV 500-440857/42	12:44	91		104		101		104			
CCB 500-440857/43	12:48	107		108		107		106			
500-148287-25	12:52	83		98		98		103			
500-148287-34	12:56	88		101		101		104			
500-148287-35	13:00	76		92		91		99			
500-148287-35 SD	13:04	91		101		99		104			
500-148287-35 DU	13:08	77		93		93		99			
500-148287-35 MS	13:12	79		96		95		100			
500-148287-35 MSD	13:16	76		95		94		101			
500-148287-37	13:20	77		95		94		100			
500-148287-41	13:24	76		91		93		97			
500-148287-42	13:28	78		93		93		97			
CCV 500-440857/54	13:32	89		101		100		102			
CCB 500-440857/55	13:36	104		104		104		103			
500-148287-45	13:40	72		87		89		95			
500-148287-46	13:44	72		88		90		95			
500-148287-48	13:48	83		95		98		100			

FORM XV - IN

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

ICP Instrument ID: ICP8 Start Date: 07/13/2018 End Date: 07/13/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 371.030	Q	Element	Q
500-148287-51	13:52	72		87		89		95			
CCV 500-440857/60	13:56	89		100		99		102			
CCB 500-440857/61	14:00	103		103		104		105			

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Batch Number: 440701 Batch Start Date: 07/12/18 15:51 Batch Analyst: Edwards, Benjamin D

Batch Method: 200.7 Batch End Date: 07/12/18 16:21

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M18GSPKIC 00002			
MB 500-440701/1		200.7, 200.7 Rev 4.4		50 mL	25 mL				
LCS 500-440701/2		200.7, 200.7 Rev 4.4		50 mL	25 mL	0.25 mL			
500-148287-A-49	EB001-2018	200.7, 200.7 Rev 4.4	R	50 mL	25 mL				
500-148287-A-50	EB002-2018	200.7, 200.7 Rev 4.4	R	50 mL	25 mL				
500-148287-A-55	FB001-2018	200.7, 200.7 Rev 4.4	R	50 mL	25 mL				
500-148287-A-55 DU	FB001-2018	200.7, 200.7 Rev 4.4	R	50 mL	25 mL				
500-148287-A-55 MS	FB001-2018	200.7, 200.7 Rev 4.4	R	50 mL	25 mL	0.25 mL			

Batch Notes	
Batch Comment	Pipet ID 3000
Digestion Tubes ID	1802043
First End time	1621
Filter Paper ID	80405751
Lot # of hydrochloric acid	190962
Lot # of Nitric Acid	200458
Hot Block ID	2604
Oven, Bath or Block Temperature 1	96 Degrees C
First Start time	1551
Thermometer ID	a1103x
Uncorrected Temperature	96 Degrees C

Basis	Basis Description
R	Total Recoverable

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.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Batch Number: 440708 Batch Start Date: 07/12/18 16:09 Batch Analyst: Edwards, Benjamin D

Batch Method: 3050B Batch End Date: 07/12/18 16:39

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M18GSPKIC 00002			
MB 500-440708/1		3050B, 6010B		1 g	100 mL				
LCS 500-440708/2		3050B, 6010B		1 g	100 mL	1 mL			
500-148287-A-2	SD015-0.0/0.09-2018	3050B, 6010B	T	1.1588 g	100 mL				
500-148287-A-5	SD010-0.0/0.4-2018	3050B, 6010B	T	1.0457 g	100 mL				
500-148287-A-7	SD013-0.0/0.05-2018	3050B, 6010B	T	1.1283 g	100 mL				
500-148287-A-12	SD004-0.0/0.1-2018	3050B, 6010B	T	1.0419 g	100 mL				
500-148287-A-13	SD004-0.0/0.1-2018/D	3050B, 6010B	T	1.0545 g	100 mL				
500-148287-A-15	SD009-0.0/0.3-2018	3050B, 6010B	T	1.0967 g	100 mL				
500-148287-A-15 DU	SD009-0.0/0.3-2018	3050B, 6010B	T	1.1468 g	100 mL				
500-148287-A-15 MS	SD009-0.0/0.3-2018	3050B, 6010B	T	1.0300 g	100 mL	1 mL			
500-148287-A-15 MSD	SD009-0.0/0.3-2018	3050B, 6010B	T	1.0192 g	100 mL	1 mL			
500-148287-A-21	SD006-0.0/0.5-2018	3050B, 6010B	T	1.0470 g	100 mL				
500-148287-A-23	SD007B-0.0/0.5-2018	3050B, 6010B	T	1.1196 g	100 mL				
500-148287-A-24	SD005B-0.0/0.5-2018	3050B, 6010B	T	1.0894 g	100 mL				
500-148287-A-25	SD005B-0.5/1.0-2018	3050B, 6010B	T	1.0148 g	100 mL				
500-148287-A-34	SD011-0.0/0.5-2018	3050B, 6010B	T	1.0552 g	100 mL				
500-148287-A-35	SD012-0.0/0.14-2018	3050B, 6010B	T	1.0055 g	100 mL				
500-148287-A-35 DU	SD012-0.0/0.14-2018	3050B, 6010B	T	1.0904 g	100 mL				
500-148287-A-35 MS	SD012-0.0/0.14-2018	3050B, 6010B	T	1.0787 g	100 mL	1 mL			
500-148287-A-35 MSD	SD012-0.0/0.14-2018	3050B, 6010B	T	1.1280 g	100 mL	1 mL			
500-148287-A-37	SD014-0.0/0.3-2018	3050B, 6010B	T	1.1053 g	100 mL				
500-148287-A-41	SD016-0.0/0.12-2018	3050B, 6010B	T	1.1449 g	100 mL				

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.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Batch Number: 440708 Batch Start Date: 07/12/18 16:09 Batch Analyst: Edwards, Benjamin D

Batch Method: 3050B Batch End Date: 07/12/18 16:39

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M18GSPKIC 00002			
500-148287-A-42	SD016-0.0/0.12-2018/D	3050B, 6010B	T	1.1457 g	100 mL				
500-148287-A-45	SD017-0.0/0.5-2018	3050B, 6010B	T	1.0551 g	100 mL				
500-148287-A-46	SD017-0.5/0.98-2018	3050B, 6010B	T	1.0113 g	100 mL				
500-148287-A-48	SD018-0.0/0.5-2018	3050B, 6010B	T	1.1259 g	100 mL				
500-148287-A-51	SD008-0.0/0.2-2018	3050B, 6010B	T	1.1246 g	100 mL				

Batch Notes	
Balance ID	3022
Batch Comment	snap caps 01418001
Temperature - Corrected - End	91 Degrees C
Temperature - Corrected - Start	91 Degrees C
Digestion Unit ID	2494
Digestion Tube/Cup ID	1802043
Filter ID	15751135
Hydrogen Peroxide ID	197145
Hydrochloric Acid ID	190962
Nitric Acid ID	200458
Pipette/Syringe/Dispenser ID	1752
Thermometer ID	2104173
Temperature - Uncorrected - End	92 Degrees C
Temperature - Uncorrected - Start	92 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.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-148287-1

SDG No.:

Batch Number: 440994 Batch Start Date: 07/16/18 07:32 Batch Analyst: Heiligstedt, Stephanie A

Batch Method: 3010A Batch End Date: 07/16/18 08:02

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M18GSPKIC 00002			
LB 500-440847/1-A		3010A, 6010B		50 mL	50 mL				
LCS 500-440994/2		3010A, 6010B		50 mL	50 mL	0.5 mL			
500-148287-B-56 -A	WC001	3010A, 6010B	P	50 mL	50 mL				
500-148287-A-57 -A	WC002	3010A, 6010B	P	50 mL	50 mL				

Batch Notes	
Batch Comment	filter/pluner 71222761, T-325, T-323, T-328
Temperature - Corrected - End	97 Degrees C
Temperature - Corrected - Start	97 Degrees C
Digestion End Time	07/16/2018 07:02
Digestion Start Time	07/16/2018 07:32
Digestion Unit ID	1565
Hydrochloric Acid ID	190962
Nitric Acid ID	200458
Pipette/Syringe/Dispenser ID	2850
Thermometer ID	2102558
Digestion Tube/Cup ID	1802043
Temperature - Uncorrected - End	98 Degrees C
Temperature - Uncorrected - Start	98 Degrees C

Basis	Basis Description
P	TCLP

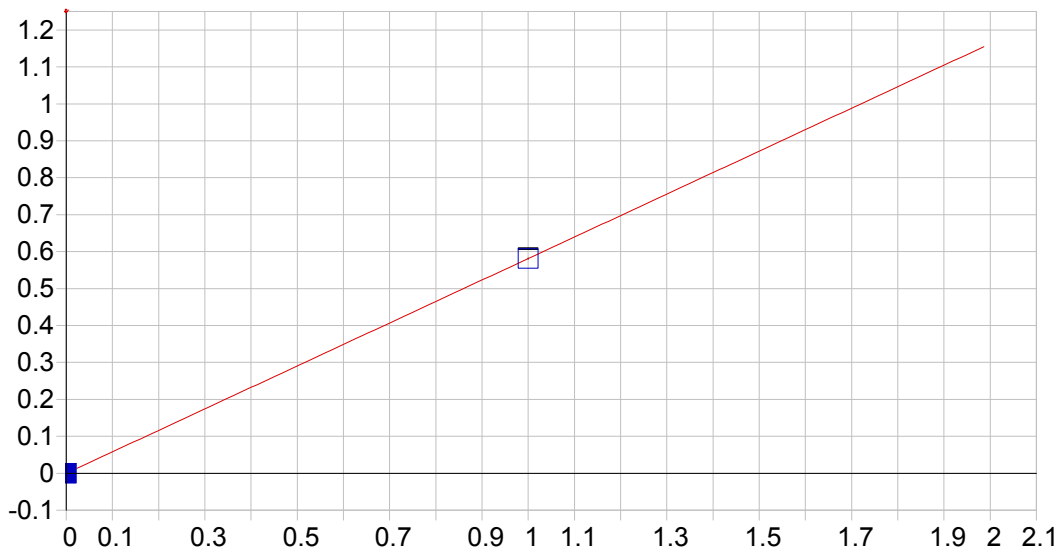
The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact	Check
1	---	---	---	---	Cal	---	---	---	---
2	1	1	1	1	QC	S1	P6071318A	1	☒
3	2	1	2	1	QC	S2		1	☒
4	3	1	3	1	QC	ICV		1	☒
5	4	1	4	1	QC	ICB		1	☒
6	5	1	5	1	QC	ICVL		1	☒
7	109	2	1	5	QC	ICVL		1	☒
8	6	1	6	1	QC	CRI		1	☒
9	7	1	7	1	QC	ICSA		1	☒
10	8	1	8	1	QC	ICSAB		1	☒
11	9	1	9	1	QC	CCV		1	☒
12	10	1	10	1	QC	CCB		1	☒
13	11	1	11	1	QC	MRL		1	☒
14	110	2	2	5	QC	LRC		1	☒
15	Rinse	---	---	---	Rinse	Rinse	---	---	---
16	Rinse	---	---	---	Rinse	Rinse	---	---	---
17	12	1	12	1	Unk	mb 500-440701/1-a		1	☒
18	13	1	1	2	Unk	lcs 500-440701/2-a		1	☒
19	14	1	2	2	Unk	500-148268-b-1-a		1	☒
20	15	1	3	2	Unk	500-148268-b-1-aSD@5		1	☒
21	16	1	4	2	Unk	500-148268-b-1-b du		1	☒
22	17	1	5	2	Unk	500-148268-b-1-c ms		1	☒
23	18	1	6	2	Unk	500-148295-a-1-a		1	☒
24	19	1	7	2	Unk	500-148302-a-5-a		1	☒
25	20	1	8	2	Unk	500-148302-a-6-a		1	☒
26	21	1	9	2	Unk	500-148302-a-7-a		1	☒
27	22	1	10	2	QC	CCV		1	☒
28	23	1	11	2	QC	CCB		1	☒
29	24	1	12	2	Unk	500-148302-b-8-a		1	☒
30	25	1	1	3	Unk	500-148302-a-9-a		1	☒
31	26	1	2	3	Unk	500-148302-b-10-a		1	☒
32	27	1	3	3	Unk	500-148302-a-11-a		1	☒
33	28	1	4	3	Unk	500-148302-a-12-a		1	☒
34	29	1	5	3	Unk	00-148302-a-13-a		1	☒
35	30	1	6	3	Unk	500-148302-a-14-a		1	☒
36	31	1	7	3	Unk	500-148288-a-1-a		1	☒
37	32	1	8	3	Unk	500-148287-a-49-a		1	☒
38	33	1	9	3	Unk	500-148287-a-50-a		1	☒
39	34	1	10	3	QC	CCV		1	☒
40	35	1	11	3	QC	CCB		1	☒
41	36	1	12	3	Unk	500-148287-a-55-a		1	☒
42	37	1	1	4	Unk	148287-a-55-aSD@5		1	☒
43	38	1	2	4	Unk	500-148287-a-55-b du		1	☒
44	39	1	3	4	Unk	500-148287-a-55-c ms		1	☒
45	Rinse	---	---	---	Rinse	Rinse	---	---	---
46	Rinse	---	---	---	Rinse	Rinse	---	---	---
47	40	1	4	4	Unk	mb 500-440702/1-a		1	☒
48	41	1	5	4	Unk	lcs 500-440702/2-a		1	☒
49	42	1	6	4	Unk	500-148293-c-1-a		1	☒
50	43	1	7	4	Unk	500-148293-c-1-aSD@5		1	☒
51	44	1	8	4	Unk	500-148293-c-1-b du		1	☒
52	45	1	9	4	Unk	500-148293-c-1-c ms		1	☒
53	61	2	1	1	QC	CCVTEST		1	☒
54	46	1	10	4	QC	CCV		1	☒
55	47	1	11	4	QC	CCB		1	☒
56	60	1	12	5	QC	CCVL		1	☒
57	48	1	12	4	Unk	500-148293-c-2-a		1	☒
58	49	1	1	5	Unk	500-148293-c-3-a		1	☒
59	Rinse	---	---	---	Rinse	Rinse	---	---	---
60	Rinse	---	---	---	Rinse	Rinse	---	---	---
61	50	1	2	5	Unk	mb 500-440515/1-a		1	☒
62	51	1	3	5	Unk	lcs 500-440515/2-a		1	☒
63	52	1	4	5	Unk	500-148160-f-1-c		1	☒

	Check Table	Fail Action
1	---	None
2	S1	None
3	S2	None
4	ICV	None
5	ICB	None
6	CCVLL	None
7	CCVLL	None
8	CRI	None
9	ICSA	None
10	ICSAB	None
11	CCV	None
12	CCB	None
13	CCVLL	None
14	LRC	None
15	---	---
16	---	---
17	RLTABLE	---
18	RLTABLE	---
19	RLTABLE	---
20	RLTABLE	---
21	RLTABLE	---
22	RLTABLE	---
23	RLTABLE	---
24	RLTABLE	---
25	RLTABLE	---
26	RLTABLE	---
27	CCV	None
28	CCB	None
29	RLTABLE	---
30	RLTABLE	---
31	RLTABLE	---
32	RLTABLE	---
33	RLTABLE	---
34	RLTABLE	---
35	RLTABLE	---
36	RLTABLE	---
37	RLTABLE	---
38	RLTABLE	---
39	CCV	None
40	CCB	None
41	RLTABLE	---
42	RLTABLE	---
43	RLTABLE	---
44	RLTABLE	---
45	---	---
46	---	---
47	RLTABLE	---
48	RLTABLE	---
49	RLTABLE	---
50	RLTABLE	---
51	RLTABLE	---
52	RLTABLE	---
53	CCV	None
54	CCV	None
55	CCB	None
56	CCVLL	None
57	RLTABLE	---
58	RLTABLE	---
59	---	---
60	---	---
61	RLTABLE	---
62	RLTABLE	---
63	RLTABLE	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact	Check
64	53	1	5	5	Unk	500-148160-f-2-e		1	☒
65	54	1	6	5	Unk	500-148160-f-3-c		1	☒
66	55	1	7	5	Unk	500-148160-f-4-c		1	☒
67	56	1	8	5	Unk	500-148160-f-5-c		1	☒
68	57	1	9	5	QC	CCV		1	☒
69	58	1	10	5	QC	CCB		1	☒
70	59	1	11	5	QC	CCVL		1	☒
71	Rinse	---	---	---	Rinse	Rinse	---	---	---
72	Rinse	---	---	---	Rinse	Rinse	---	---	---
73	Rinse	---	---	---	Rinse	Rinse	---	---	---
74	Rinse	---	---	---	Rinse	Rinse	---	---	---
75	Rinse	---	---	---	Rinse	Rinse	---	---	---
76	Rinse	---	---	---	Rinse	Rinse	---	---	---

	Check Table	Fail Action
64	RLTABLE	---
65	RLTABLE	---
66	RLTABLE	---
67	RLTABLE	---
68	CCV	None
69	CCB	None
70	CCVLL	None
71	---	---
72	---	---
73	---	---
74	---	---
75	---	---
76	---	---

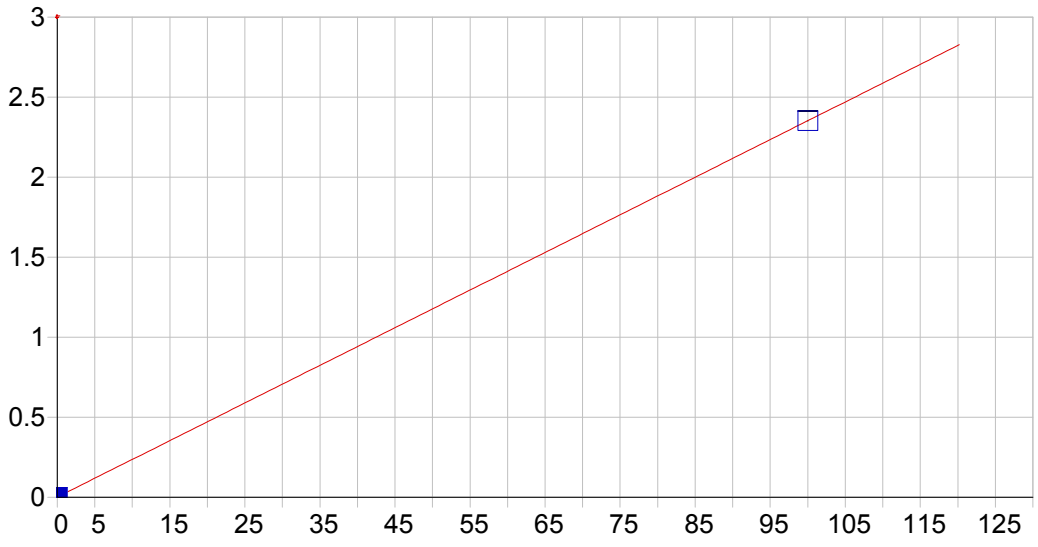


Ag 328.068 {103}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000265	Re-Slope:	1.000000
A1 (Gain):	0.581476	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000799		
Predicted MQL:	0.002662		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00027	.000	1
S1	1.0000	1.0000	.000	.000	.58121	.002	1



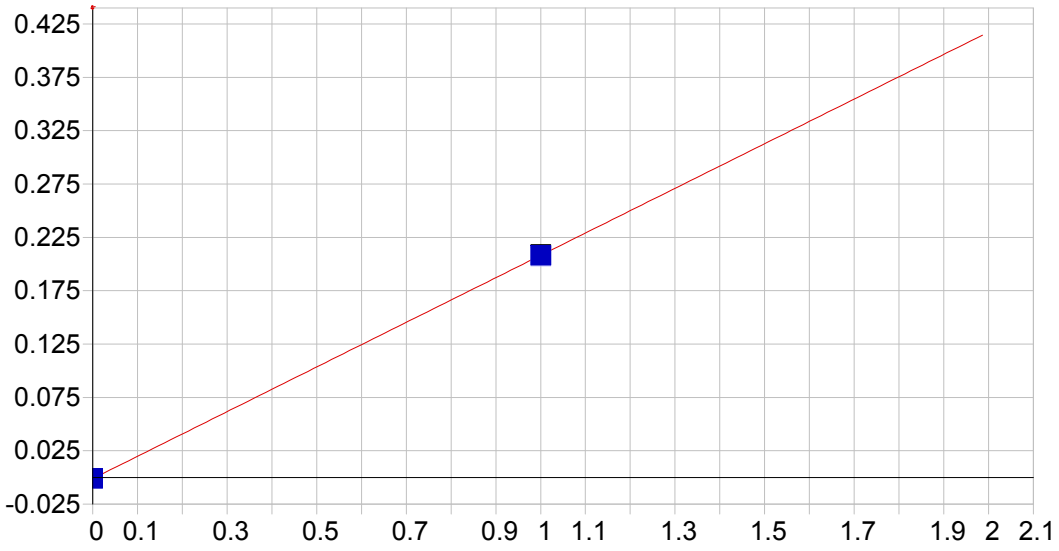
Al 308.215 {109}

Date of Fit:	7/13/2018 10:12:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001438	Re-Slope:	1.000000
A1 (Gain):	0.023511	Y-int:	0.000000
A2 (Curvature):	0.000000		

n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.022197		
Predicted MQL:	0.073989		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00144	.000	1
S2	100.00	100.00	.000	.000	2.3526	.002	1

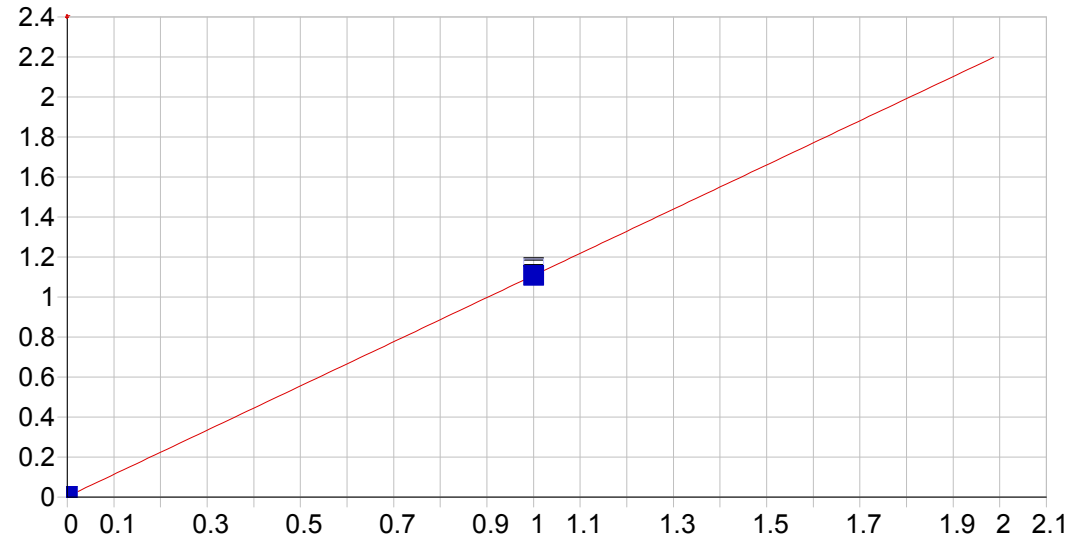


As 189.042 {478}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001097	Re-Slope:	1.000000
A1 (Gain):	0.209238	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002569		
Predicted MQL:	0.008562		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00110	.000	1
S1	1.0000	1.0000	.000	.000	.20721	.001	1

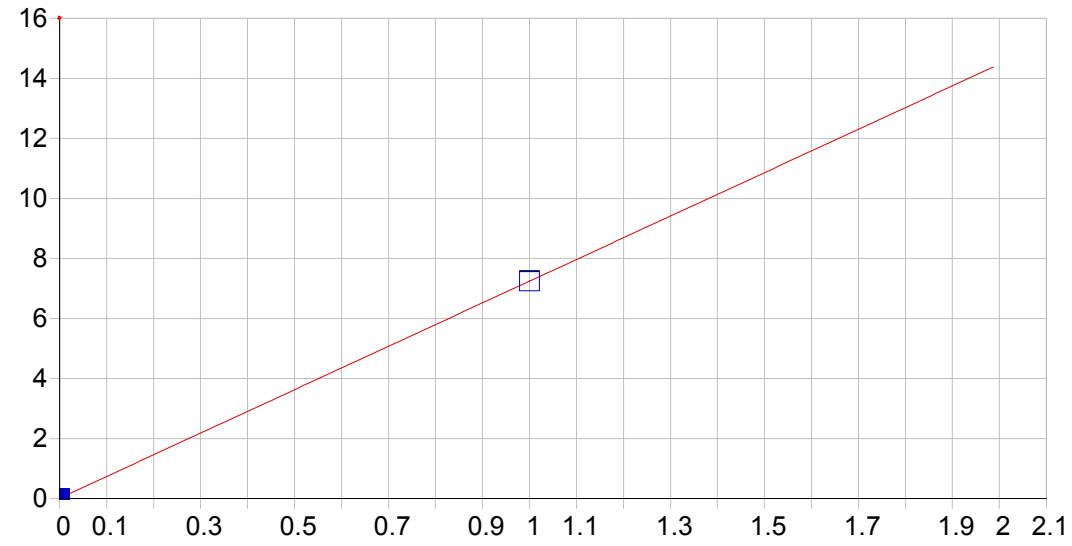


B 208.959 {461}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003049	Re-Slope:	1.000000
A1 (Gain):	1.104781	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000467		
Predicted MQL:	0.001556		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00305	.000	1
S1	1.0000	1.0000	.000	.000	1.1412	.005	1



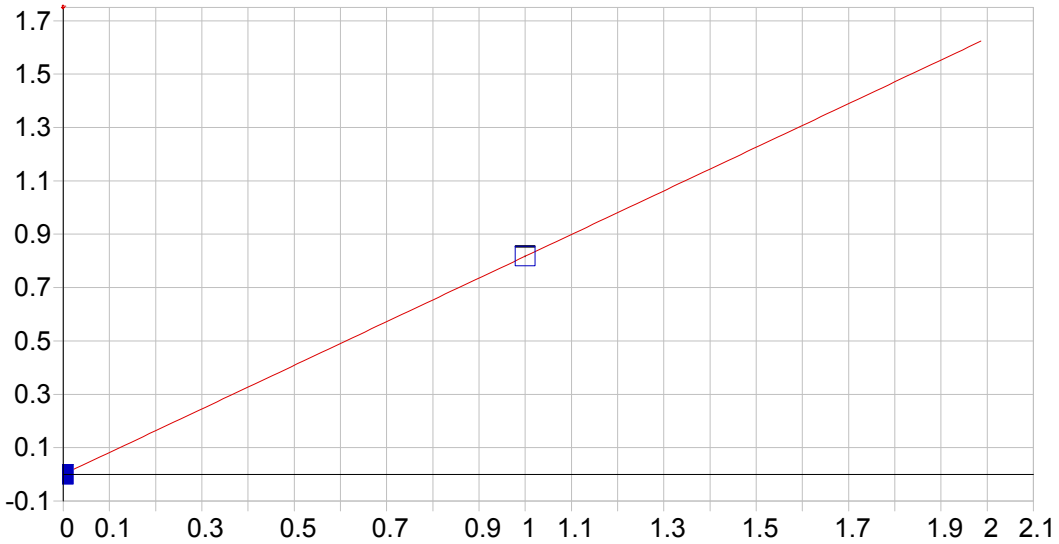
Ba 455.403 { 74}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010591	Re-Slope:	1.000000
A1 (Gain):	7.231611	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000156		
Predicted MQL:	0.000520		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01059	.000	1
S1	1.0000	1.0000	.000	.000	7.2422	.010	1

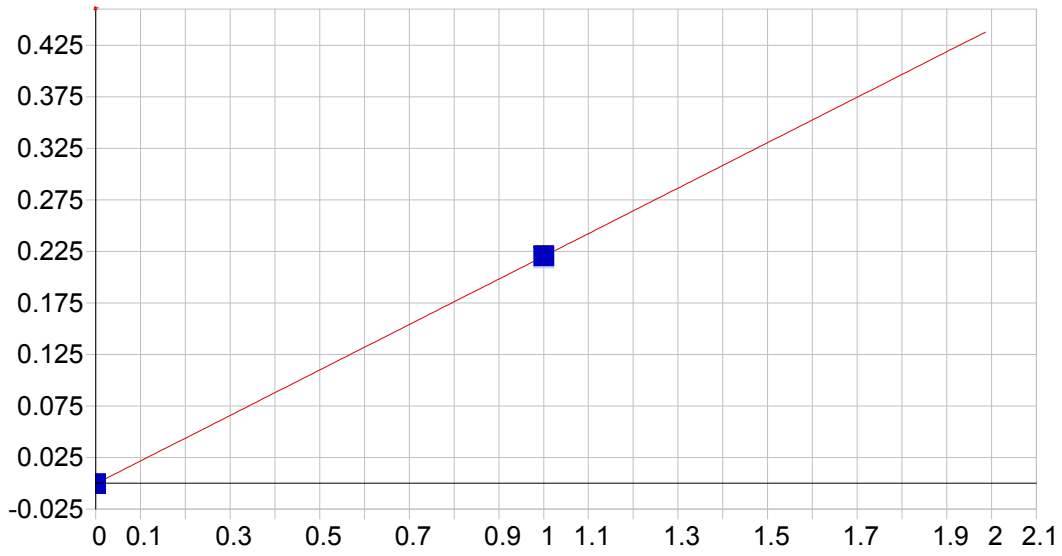


Be 234.861 {143}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.817311	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000414		
Predicted MQL:	0.001381		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00001	.000	1
S1	1.0000	1.0000	.000	.000	.81730	.001	1

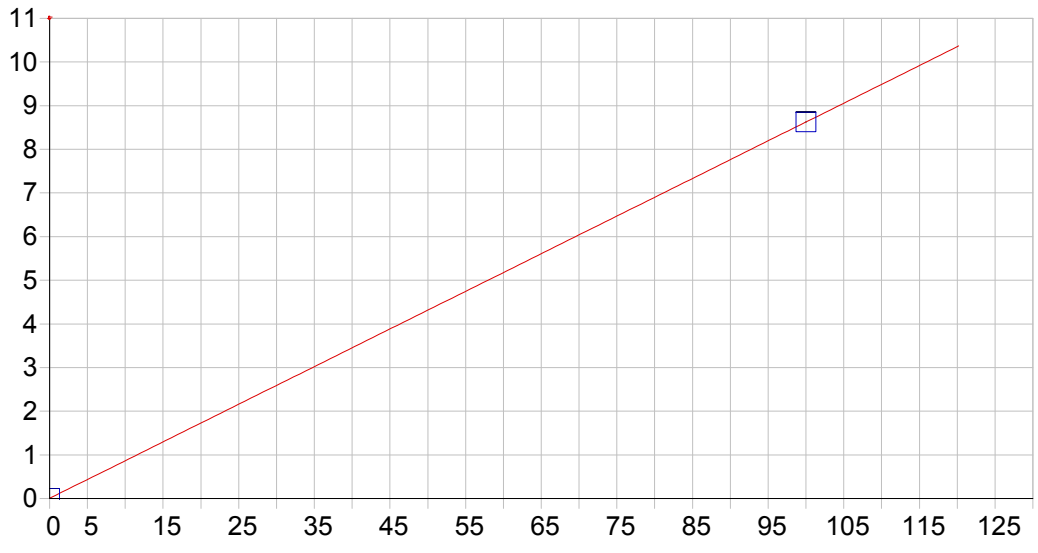


Bi 223.061 {451}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000344	Re-Slope:	1.000000
A1 (Gain):	0.220529	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001892		
Predicted MQL:	0.006307		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00034	.000	1
S1	1.0000	1.0000	.000	.000	.21856	.000	1



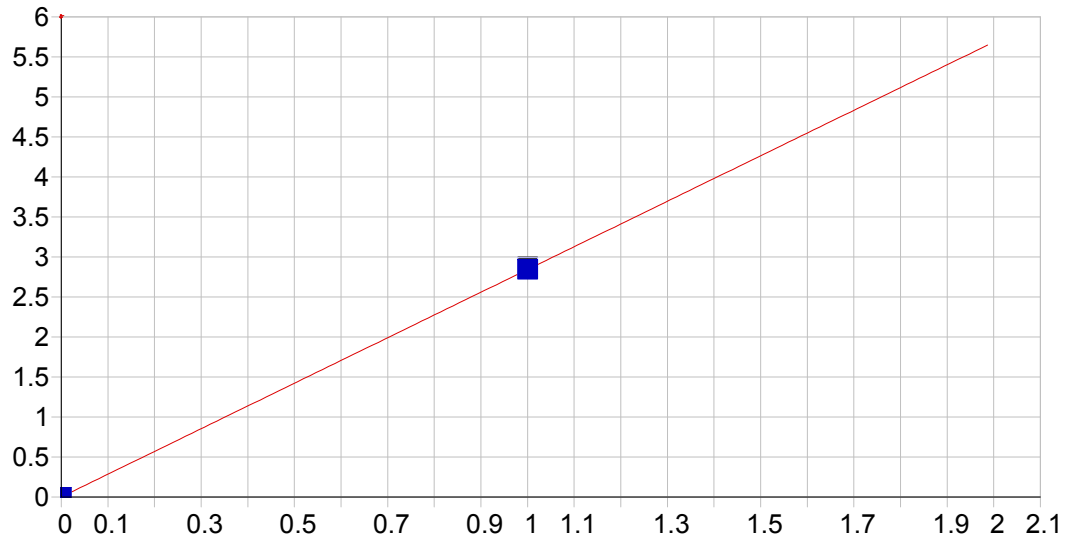
Ca 317.933 {106}

Date of Fit:	7/13/2018 10:12:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004333	Re-Slope:	1.000000
A1 (Gain):	0.086212	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.004899		
Predicted MQL:	0.016331		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00433	.000	1
S2	100.00	100.00	.000	.000	8.6255	.007	1

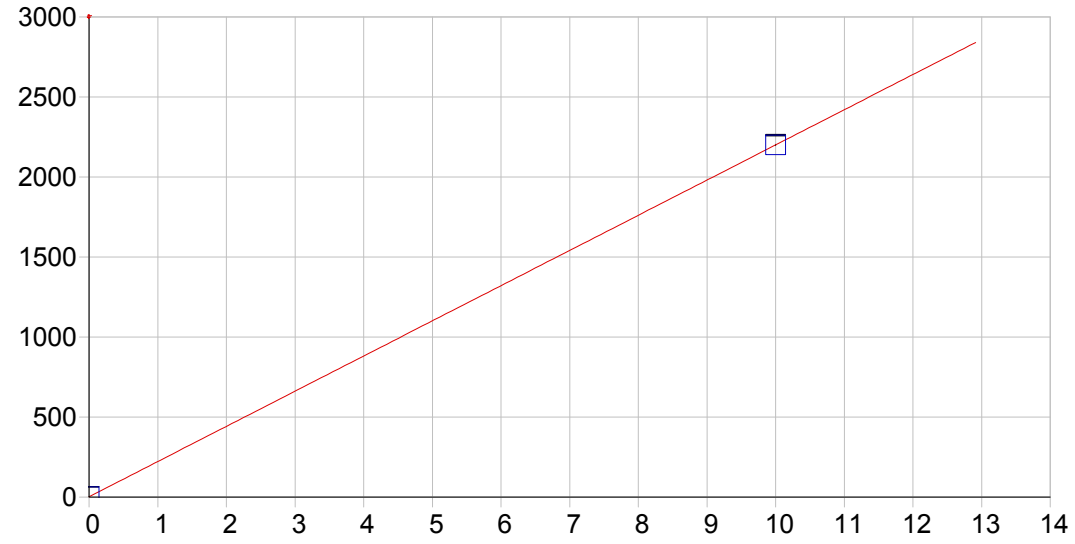


Cd 228.802 {447}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001254	Re-Slope:	1.000000
A1 (Gain):	2.842058	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000248		
Predicted MQL:	0.000828		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00125	.000	1
S1	1.0000	1.0000	.000	.000	2.8694	.004	1

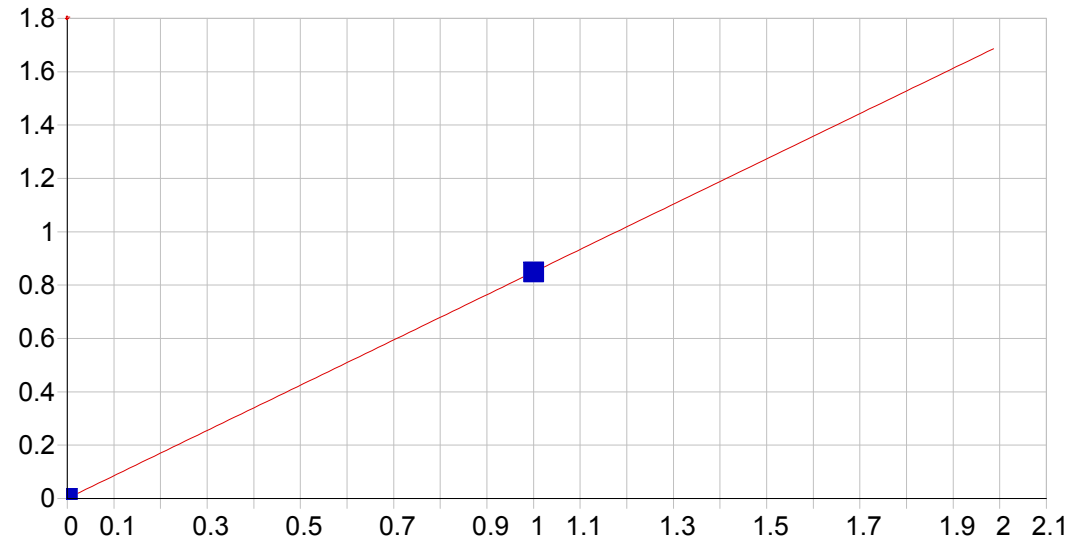


Ce 404.076 { 83}

Date of Fit:	7/13/2018 10:16:39	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	2.194764	Re-Slope:	1.000000
A1 (Gain):	219.830980	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.018283		
Predicted MQL:	0.060942		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	2.1948	.873	1
CE	10.000	10.000	.000	.000	2200.5	4.47	1



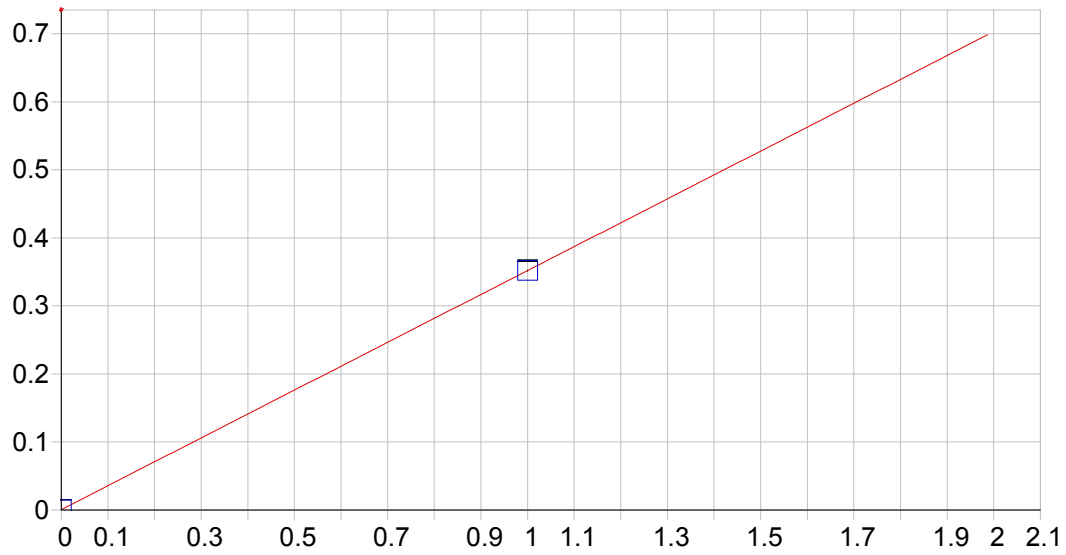
Co 228.616 {447}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000434	Re-Slope:	1.000000
A1 (Gain):	0.848557	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000460		
Predicted MQL:	0.001534		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00043	.000	1
S1	1.0000	1.0000	.000	.000	.85037	.001	1

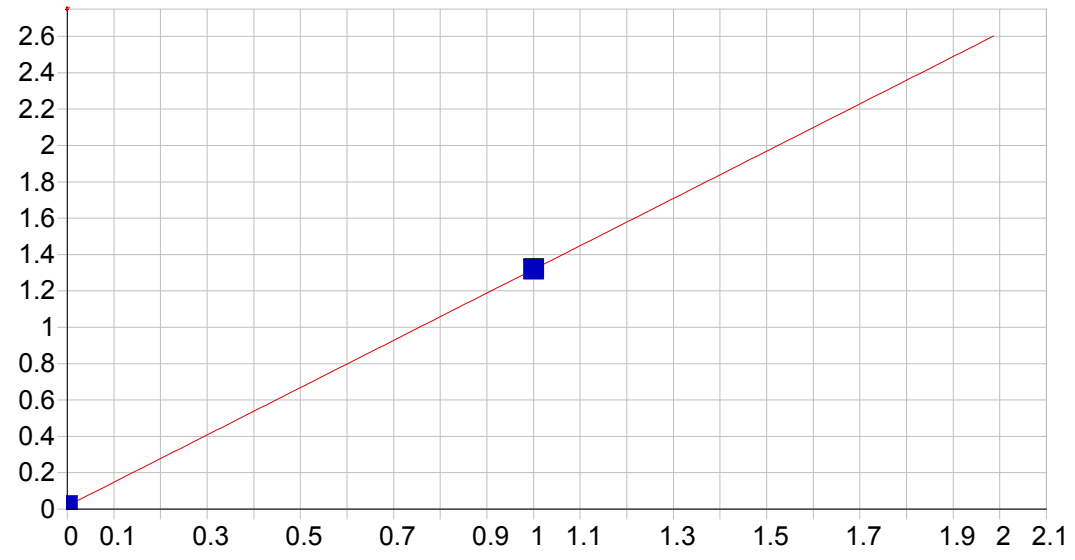


Cr 267.716 {126}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000591	Re-Slope:	1.000000
A1 (Gain):	0.351382	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000904		
Predicted MQL:	0.003014		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00059	.000	1
S1	1.0000	1.0000	.000	.000	.35197	.001	1

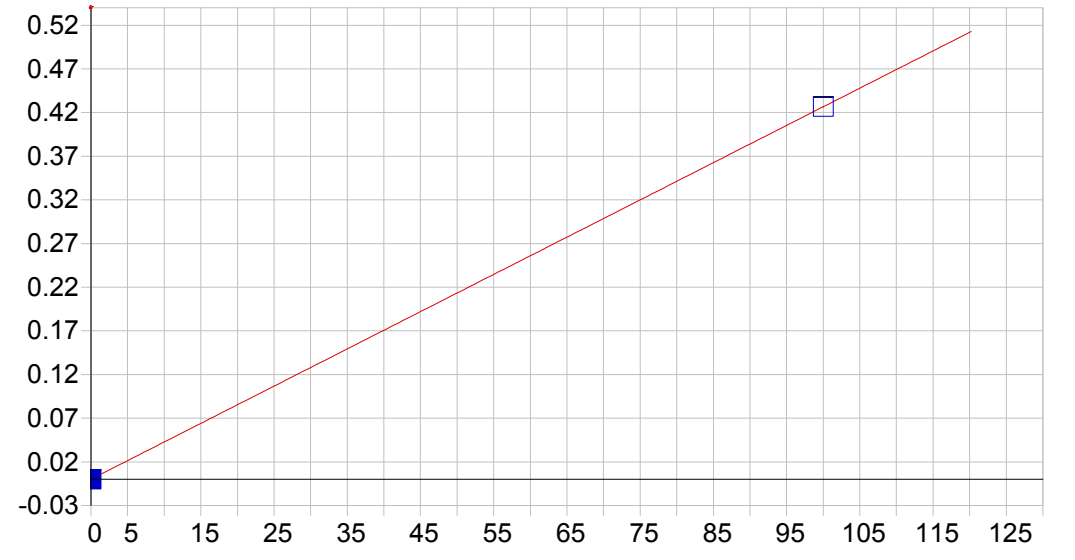


Cu 324.754 {104}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.018006	Re-Slope:	1.000000
A1 (Gain):	1.300412	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000370		
Predicted MQL:	0.001235		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01801	.000	1
S1	1.0000	1.0000	.000	.000	1.3181	.002	1



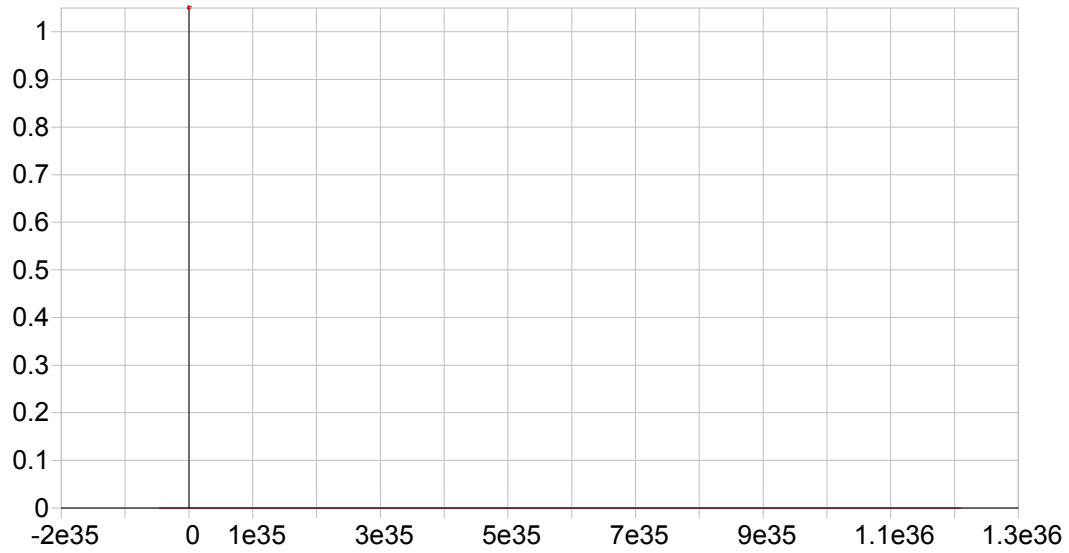
Fe 271.441 {124}

Date of Fit:	7/13/2018 10:12:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000078	Re-Slope:	1.000000
A1 (Gain):	0.004265	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000		Status:	OK.
Std Error of Est:	0.000000			
Predicted MDL:	0.069170			
Predicted MQL:	0.230568			

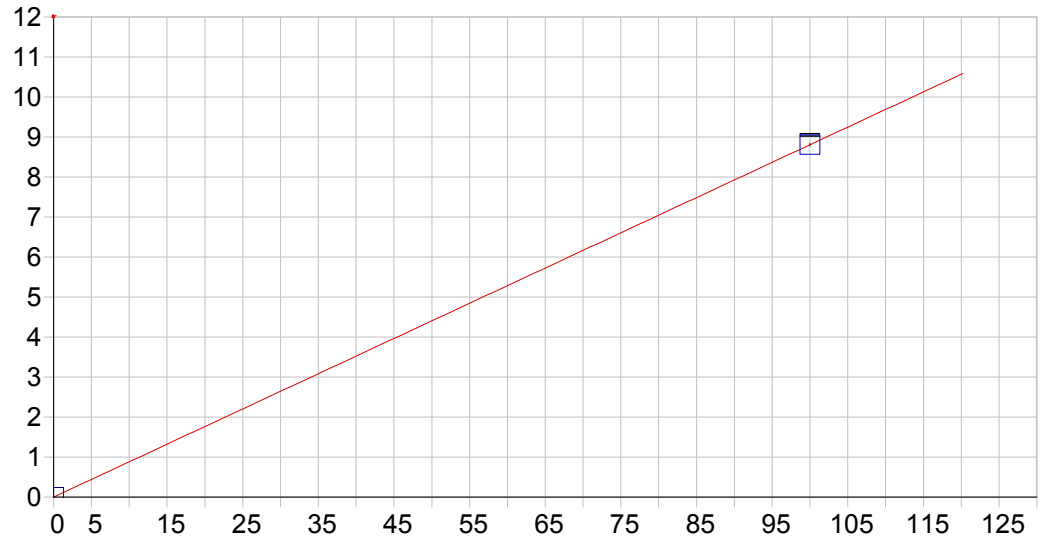
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00008	.000	1
S2	100.00	100.000	.000	.000	.42659	.000	1



ln 230.606 {446}*

Date of Fit:	<not fit>		Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):		0.000000		Re-Slope:	1.000000	
A1 (Gain):		0.000000		Y-int:	0.000000	
A2 (Curvature):		0.000000				
n (Exponent):		1.000000				
Correlation:		0.000000		Status:	Warning	Zero Gain
Std Error of Est:		0.000000				
Predicted MDL:		n/a				
Predicted MQL:		n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

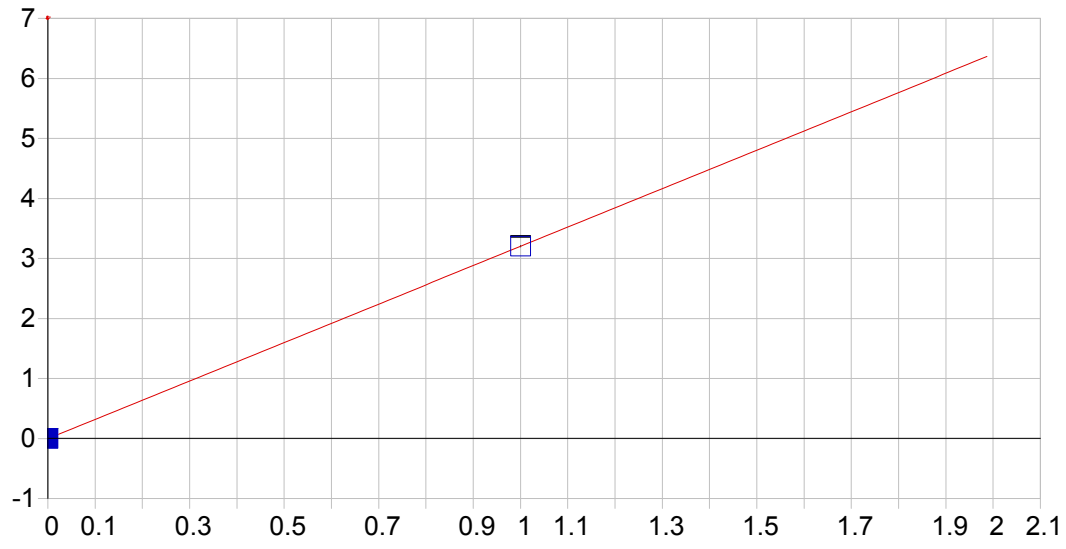


K 766.490 { 44}

Date of Fit:	7/13/2018 10:12:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001472	Re-Slope:	1.000000
A1 (Gain):	0.088053	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.023954		
Predicted MQL:	0.079846		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00147	.001	1
S2	100.00	100.00	.000	.000	8.8068	.031	1



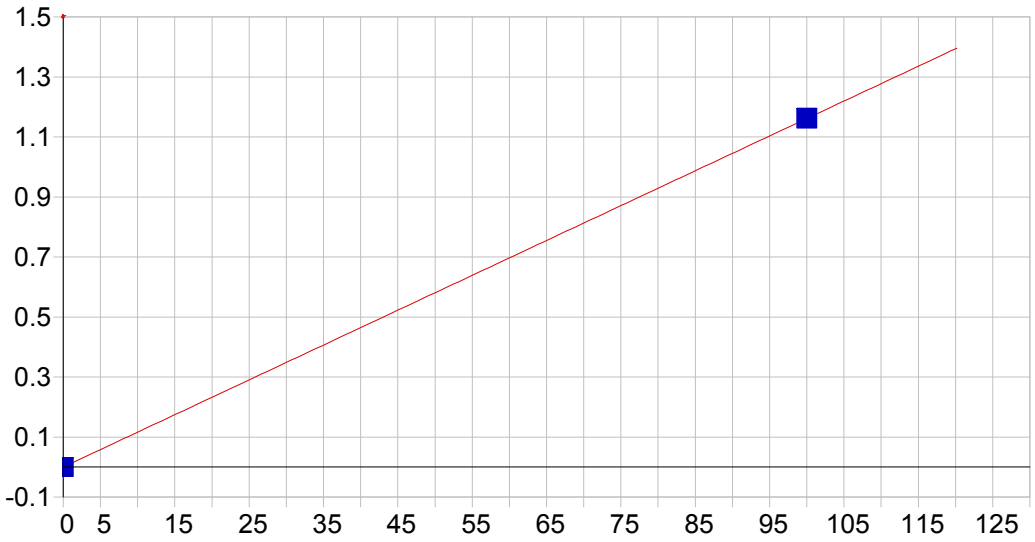
Li 670.784 { 50}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003916	Re-Slope:	1.000000
A1 (Gain):	3.204888	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000661		
Predicted MQL:	0.002205		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00392	.000	1
S1	1.0000	1.0000	.000	.000	3.2010	.011	1

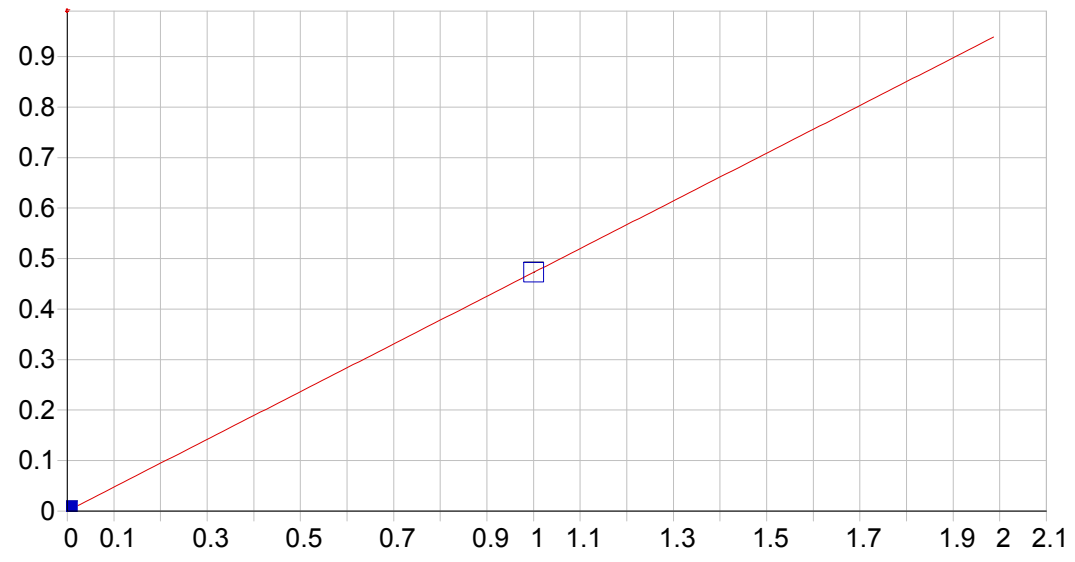


Mg 279.079 {121}

Date of Fit:	7/13/2018 10:12:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000022	Re-Slope:	1.000000
A1 (Gain):	0.011614	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.027121		
Predicted MQL:	0.090405		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00002	.000	1
S2	100.00	100.00	.000	.000	1.1613	.001	1

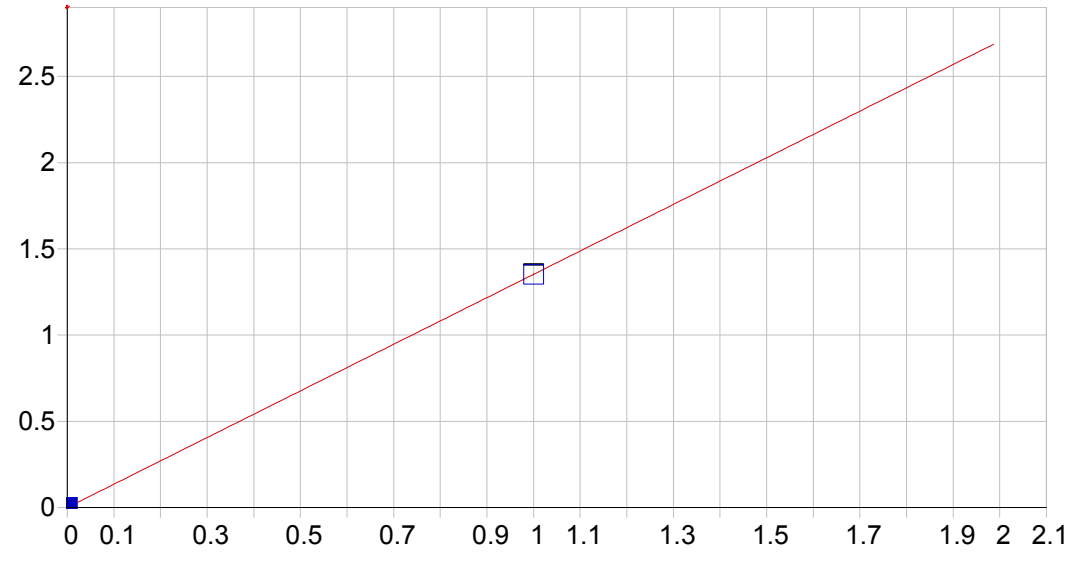


Mn 257.610 {131}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000380	Re-Slope:	1.000000
A1 (Gain):	0.472185	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000655		
Predicted MQL:	0.002182		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00038	.000	1
S1	1.0000	1.0000	.000	.000	.47256	.000	1



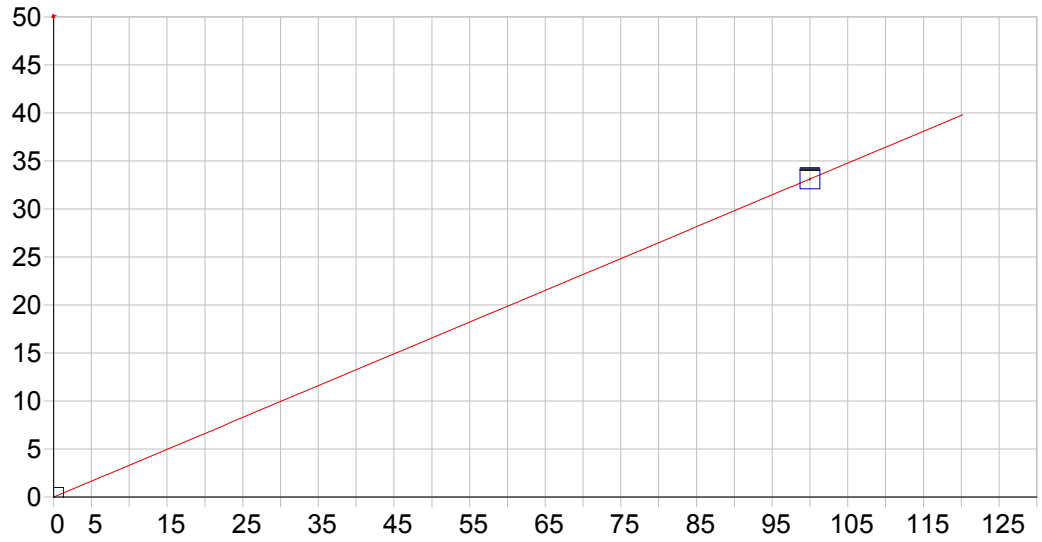
Mo 202.030 {467}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000130	Re-Slope:	1.000000
A1 (Gain):	1.352309	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000411		
Predicted MQL:	0.001370		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00013	.000	1
S1	1.0000	1.0000	.000	.000	1.3524	.003	1

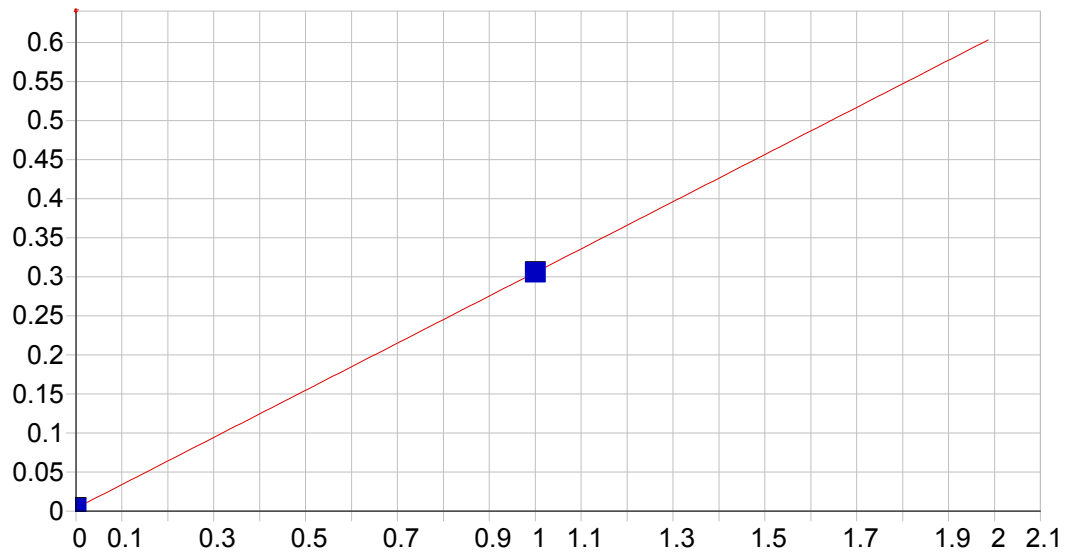


Na 589.592 { 57}

Date of Fit:	7/13/2018 10:12:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004321	Re-Slope:	1.000000
A1 (Gain):	0.331121	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.005983		
Predicted MQL:	0.019942		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00432	.001	1
S2	100.00	100.000	.000	.000	33.116	.117	1

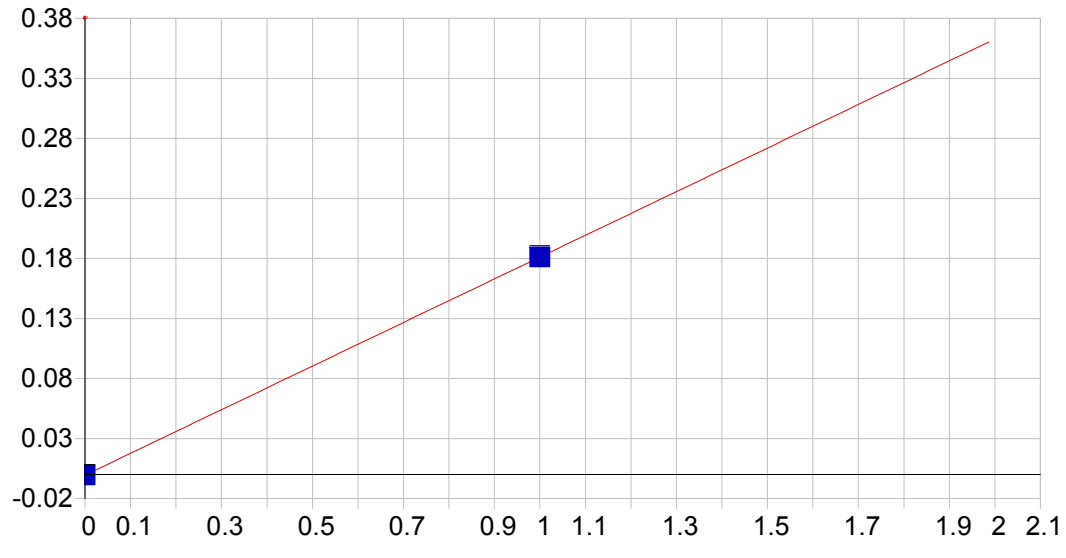


Ni 231.604 {446}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003804	Re-Slope:	1.000000
A1 (Gain):	0.301723	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001056		
Predicted MQL:	0.003521		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00380	.000	1
S1	1.0000	1.0000	.000	.000	.30583	.000	1



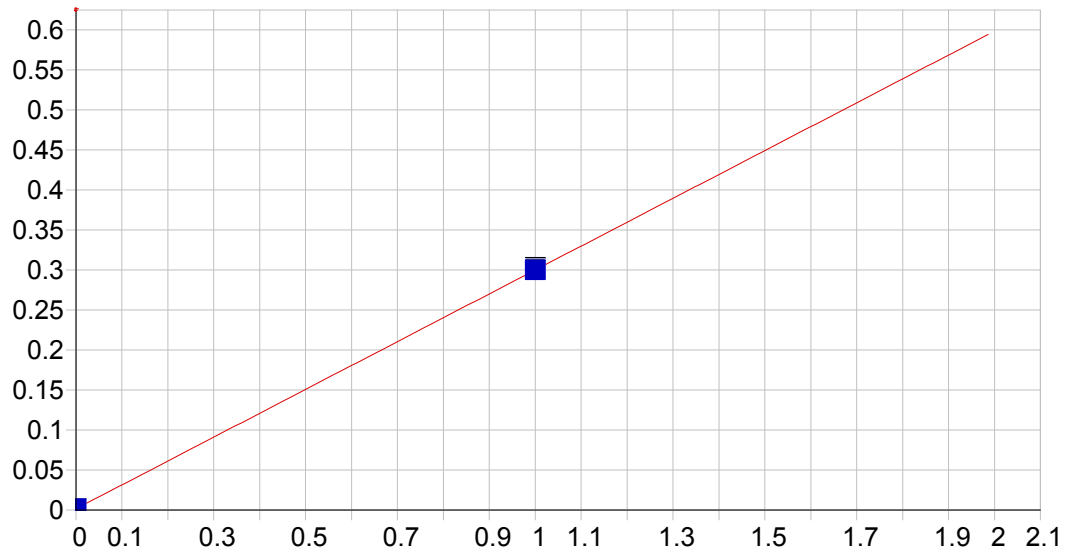
Pb 220.353 {453}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000515	Re-Slope:	1.000000
A1 (Gain):	0.181646	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002401		
Predicted MQL:	0.008003		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00052	.000	1
S1	1.0000	1.0000	.000	.000	.18185	.001	1

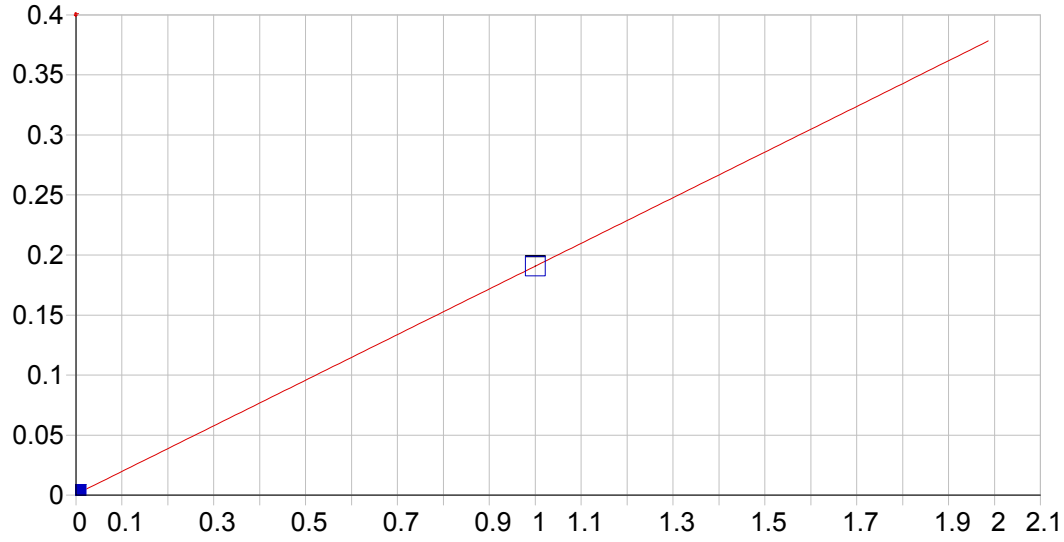


Sb 206.833 {463}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001563	Re-Slope:	1.000000
A1 (Gain):	0.298501	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001853		
Predicted MQL:	0.006175		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00156	.000	1
S1	1.0000	1.0000	.000	.000	.30179	.002	1

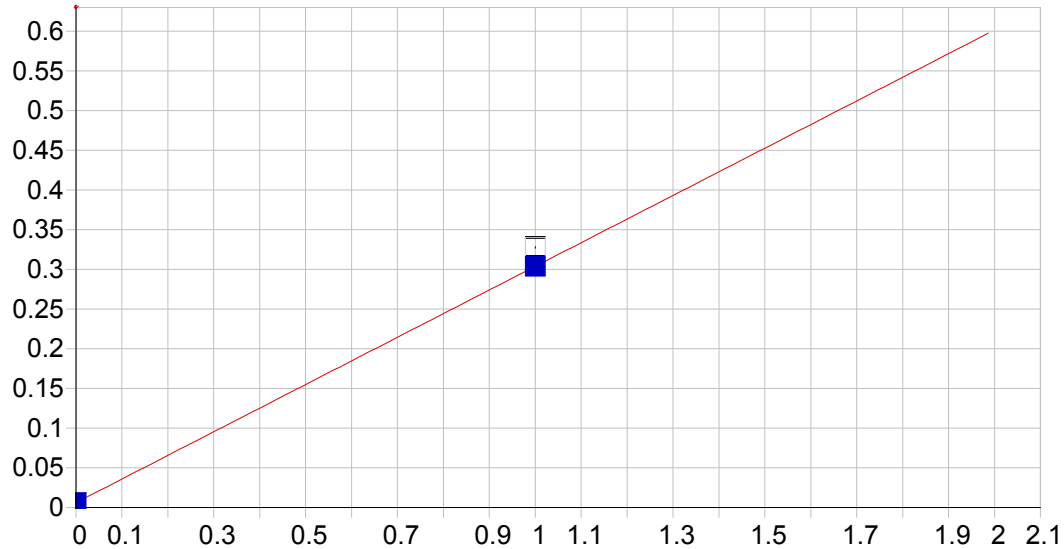


Se 196.090 {472}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000748	Re-Slope:	1.000000
A1 (Gain):	0.190029	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002788		
Predicted MQL:	0.009293		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00075	.000	1
S1	1.0000	1.0000	.000	.000	.19078	.000	1



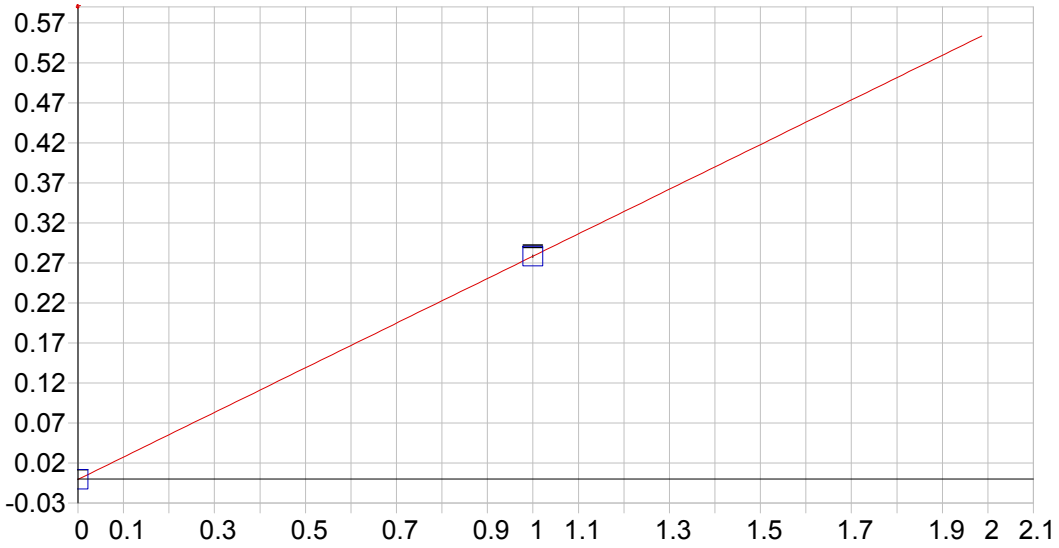
Si 212.412 {459}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006137	Re-Slope:	1.000000
A1 (Gain):	0.297731	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001405		
Predicted MQL:	0.004683		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00614	.000	1
S1	1.0000	1.0000	.000	.000	.32758	.001	1

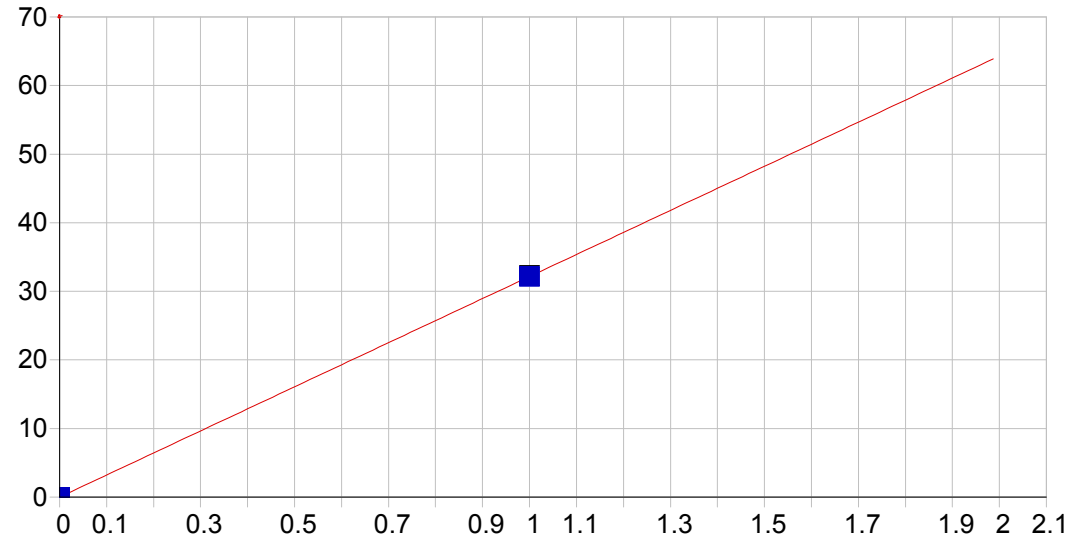


Sn 189.989 {477}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000450	Re-Slope:	1.000000
A1 (Gain):	0.278908	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001443		
Predicted MQL:	0.004809		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00045	.000	1
S1	1.0000	1.0000	.000	.000	.27846	.002	1

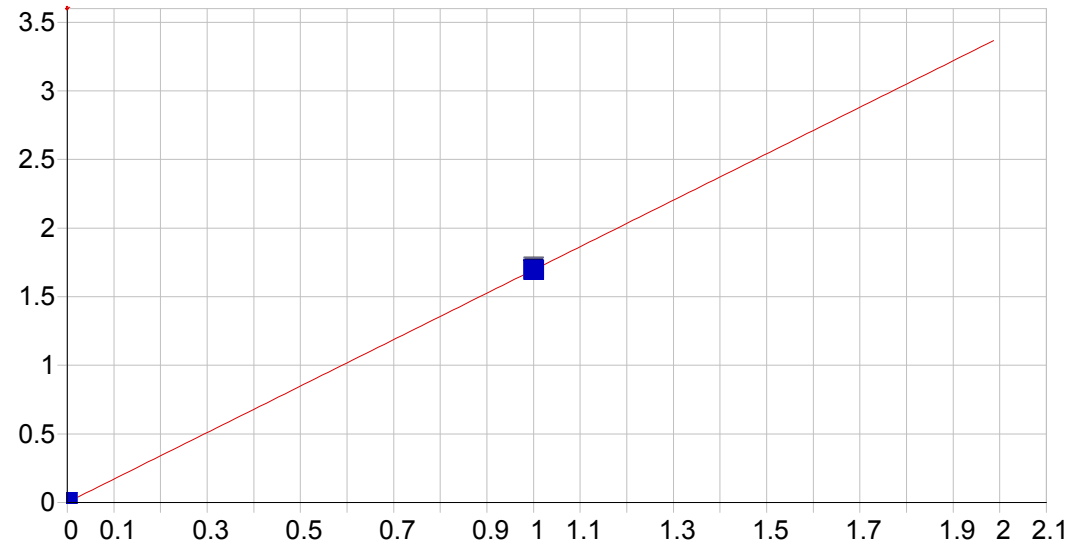


Sr 421.552 { 80}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003361	Re-Slope:	1.000000
A1 (Gain):	32.152107	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000017		
Predicted MQL:	0.000057		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00336	.001	1
S1	1.0000	1.00000	.000	.000	32.161	.097	1



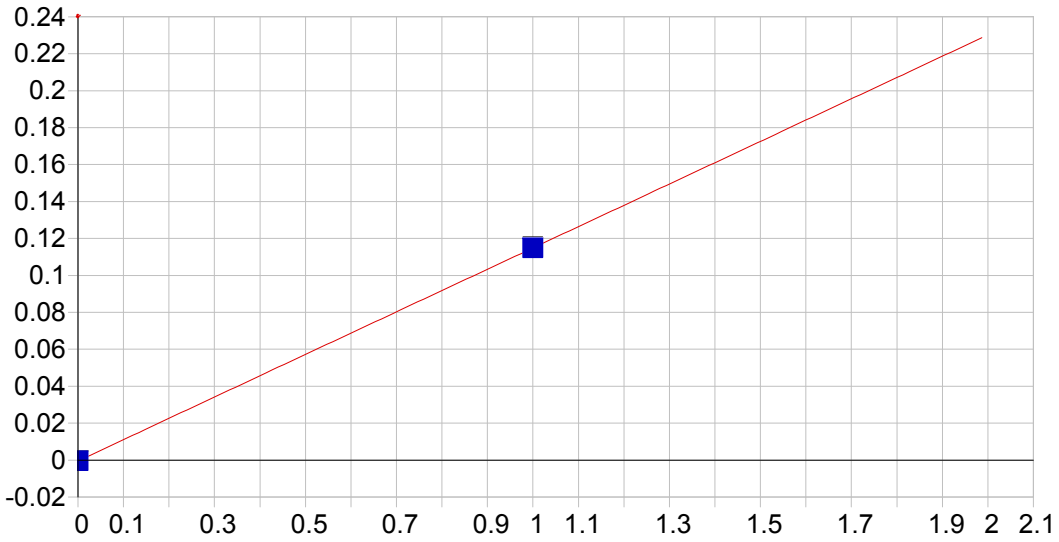
Ti 334.941 {101}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001609	Re-Slope:	1.000000
A1 (Gain):	1.693728	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000194		
Predicted MQL:	0.000647		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00161	.000	1
S1	1.0000	1.0000	.000	.000	1.7108	.005	1

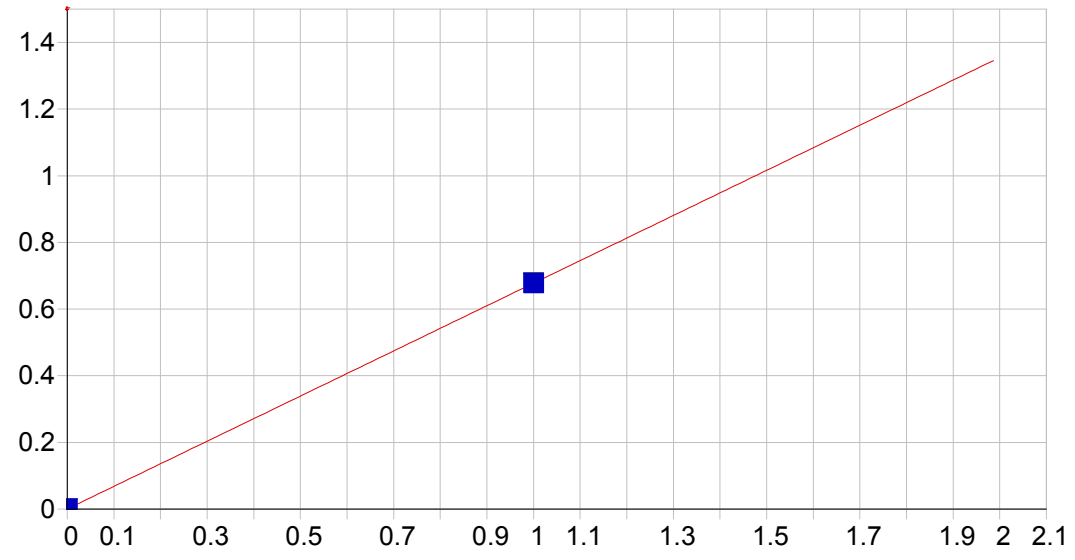


Tl 190.856 {477}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000465	Re-Slope:	1.000000
A1 (Gain):	0.115337	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001948		
Predicted MQL:	0.006494		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00046	.000	1
S1	1.0000	1.0000	.000	.000	.11514	.000	1

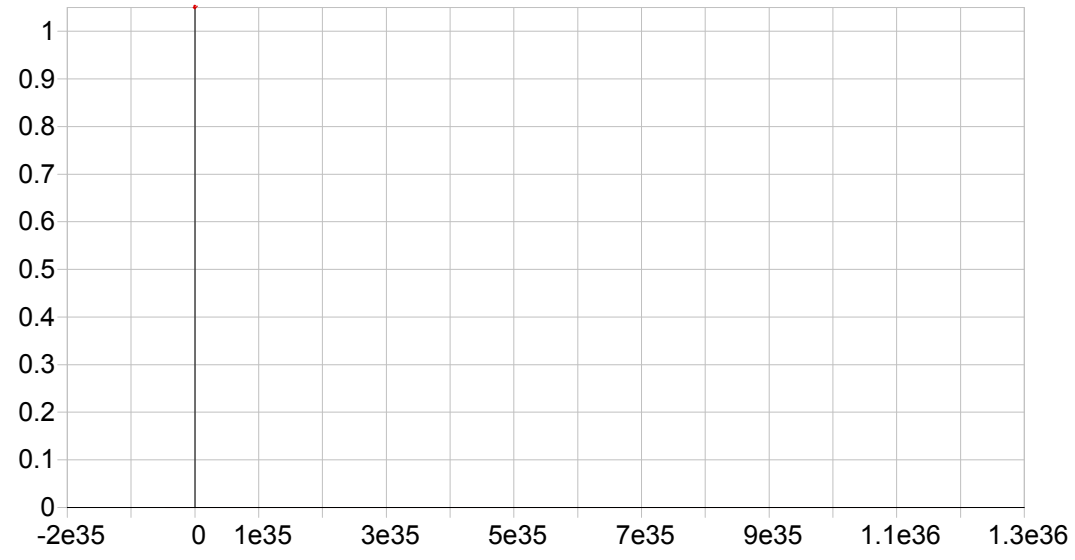


V 292.402 {115}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000536	Re-Slope:	1.000000
A1 (Gain):	0.677182	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000641		
Predicted MQL:	0.002135		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00054	.000	1
S1	1.0000	1.00000	.000	.000	.67764	.001	1



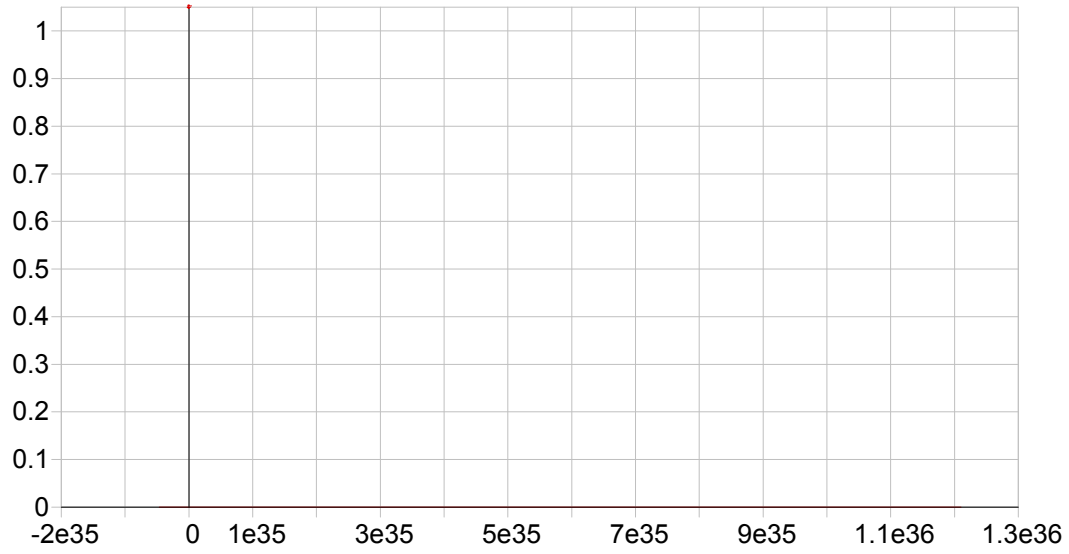
Y 224.306 {450}*

Date of Fit:	5/31/2018 15:53:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

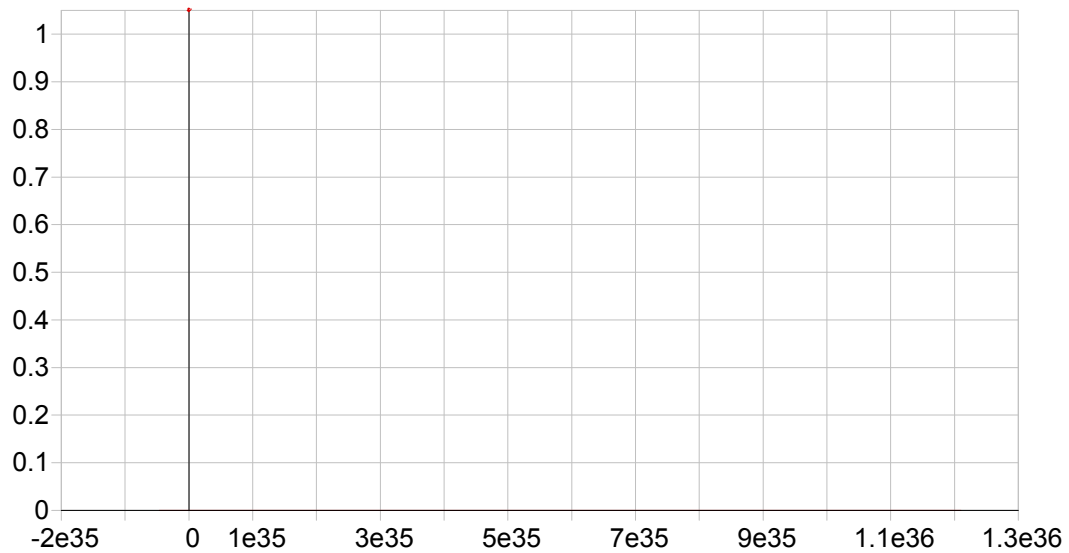
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 360.073 { 94}*

Date of Fit:	5/31/2018 15:53:17	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

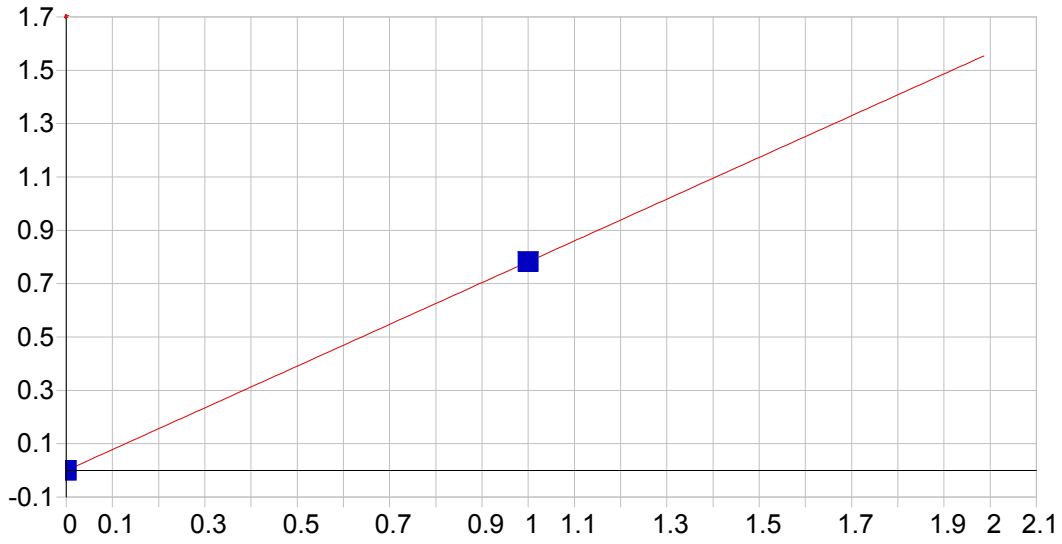


Y 371.030 { 91}*

Date of Fit:	5/31/2018 15:53:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Zn 206.200 {463}

Date of Fit:	7/13/2018 10:08:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000266	Re-Slope:	1.000000
A1 (Gain):	0.782383	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000428		
Predicted MQL:	0.001426		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00027	.000	1
S1	1.0000	1.0000	.000	.000	.78170	.000	1

Sample Name: Blank Acquired: 7/13/2018 10:00:32 Type: Cal
Method: P6071318A Mode: IR Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00027**	**.00144**	**-.00110**	**.00305**	**.01059**	**-.00001**	**-.00034**
Stddev	.00007	.00005	.00038	.00036	.00012	.00000	.00002
%RSD	25.257	3.1961	35.083	11.707	1.1782	48.550	5.5238
#1	-.00031	.00147	-.00082	.00330	.01068	-.00001	-.00036
#2	-.00022	.00141	-.00137	.00280	.01050	-.00000	-.00033

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00433**	**.0013**	**2.195**	**.00043**	**.00059**	**.01801**	**.00008**
Stddev	.00043	.0004	.873	.00008	.00013	.00034	.00010
%RSD	9.8408	35.82	39.76	17.418	21.385	1.9140	124.81
#1	.00463	.0016	2.812	.00049	.00068	.01776	.00015
#2	.00403	.0009	1.578	.00038	.00050	.01825	.00001

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00147**	**-.0039**	**.00002**	**.00038**	**.00013**	**.00432**	**.00380**
Stddev	.00093	.0003	.00011	.00007	.00007	.00108	.00015
%RSD	63.365	7.554	479.99	17.798	55.726	25.095	4.0684
#1	.00081	-.0037	-.00005	.00043	.00018	.00355	.00391
#2	.00213	-.0041	.00010	.00033	.00008	.00509	.00369

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00052**	**.00156**	**.00075**	**.00614**	**-.00045**	**.00336**	**.00161**
Stddev	.00030	.00019	.00003	.00033	.00030	.00050	.00043
%RSD	58.320	12.423	3.5894	5.3561	65.804	14.977	26.964
#1	-.00073	.00170	.00073	.00590	-.00024	.00372	.00192
#2	-.00030	.00143	.00077	.00637	-.00066	.00300	.00130

Elem	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**-.00046**	**.00054**	**-.00027**
Stddev	.00018	.00022	.00000
%RSD	37.724	40.642	.91799
#1	-.00059	.00069	-.00026
#2	-.00034	.00038	-.00027

Sample Name: Blank Acquired: 7/13/2018 10:00:32 Type: Cal
Method: P6071318A Mode: IR Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2276.5	1298.0	9984.9	4469.0
Stddev	33.0	42.3	148.8	71.2
%RSD	1.4476	3.2584	1.4903	1.5921
#1	2299.8	1327.9	10090.	4418.7
#2	2253.2	1268.1	9879.7	4519.3

Sample Name: S1 Acquired: 7/13/2018 10:04:33 Type: Cal
Method: P6071318A Mode: IR Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	B_2089	Ba4554	Be2348	Bi2230	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.58121**	**.20721**	**1.1412**	**7.2422**	**.81730**	**.21856**	**2.869**	**.85037**
Stddev	.00165	.00054	.0047	.0095	.00133	.00045	.004	.00060
%RSD	.28365	.26281	.41079	.13184	.16302	.20723	.1255	.07078
#1	.58004	.20682	1.1379	7.2355	.81825	.21824	2.872	.84994
#2	.58238	.20759	1.1445	7.2490	.81636	.21888	2.867	.85079

Elem	Cr2677	Cu3247	Li6707	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.35197**	**1.3181**	**3.201**	**.47256**	**1.3524**	**.30583**	**.18185**	**.30179**
Stddev	.00071	.0021	.011	.00003	.0034	.00034	.00066	.00158
%RSD	.20268	.15965	.3285	.00651	.25409	.11262	.36217	.52477
#1	.35147	1.3195	3.194	.47259	1.3500	.30559	.18138	.30067
#2	.35248	1.3166	3.208	.47254	1.3549	.30608	.18231	.30291

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.19078**	**.32758**	**.27846**	**32.161**	**1.7108**	**.11514**	**.67764**	**.78170**
Stddev	.00042	.00096	.00168	.097	.0047	.00017	.00053	.00035
%RSD	.21861	.29250	.60258	.30052	.27317	.14945	.07800	.04437
#1	.19048	.32690	.27727	32.093	1.7075	.11501	.67727	.78194
#2	.19107	.32826	.27964	32.229	1.7141	.11526	.67802	.78145

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2121.9**	**1156.2**	**9034.5**	**4506.9**
Stddev	2.4	1.3	25.3	9.8
%RSD	.11147	.11025	.28028	.21755
#1	2123.6	1157.1	9052.4	4500.0
#2	2120.2	1155.3	9016.6	4513.8

Sample Name: S2 Acquired: 7/13/2018 10:08:39 Type: Cal
Method: P6071318A Mode: IR Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.3526	8.6255	.42659	8.8068	1.1613	33.116
Stddev	.0024	.0071	.00008	.0308	.0010	.117
%RSD	.10120	.08237	.01859	.35019	.08535	.35300
#1	2.3542	8.6205	.42665	8.8286	1.1620	33.199
#2	2.3509	8.6305	.42653	8.7849	1.1606	33.034

Int. Std.	Y_3710
Units	Cts/S
Avg	4396.5
Stddev	10.8
%RSD	.24482
#1	4388.9
#2	4404.1

Sample Name: CE Acquired: 7/13/2018 10:12:39 Type: Cal
Method: P6071318A Mode: IR Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ce4040
Units	Cts/S
Avg	2201.
Stddev	4.
%RSD	.2033
#1	2197.
#2	2204.

Sample Name: S1 Acquired: 7/13/2018 10:16:48 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment: P6071318A

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.010169**	**-.007312**	**1.005813**	**.9978058**	**.9900020**	**.9992957**
Stddev	.000248	.006912	.004059	.0028464	.0013725	.0006567
%RSD	.0245177	94.52949	.4035471	.2852622	.1386334	.0657174
#1	1.009994	-.002425	1.002943	.9957931	.9890315	.9988313
#2	1.010344	-.012200	1.008683	.9998185	.9909724	.9997601
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.005247**	**-.001053**	**1.003951**	F **-.018462**	**.9991386**	**1.012350**
Stddev	.002692	.002892	.001218	.002154	.0033508	.000981
%RSD	.2678153	274.6562	.1212974	11.66902	.3353681	.0969029
#1	1.007151	.000992	1.003090	-.019986	.9967693	1.011656
#2	1.003343	-.003098	1.004812	-.016939	1.001508	1.013044
Check ?	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				1.000000		
Range				-5.00000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9986926**	**-.053487**	**.0202514**	**.9865628**	**.0066190**	**1.001312**
Stddev	.0000896	.036370	.0153138	.0032022	.0204894	.004545
%RSD	.0089743	67.99677	75.61874	.3245795	309.5570	.4538815
#1	.9987560	-.027770	.0094228	.9842985	.0211072	.998098
#2	.9986292	-.079204	.0310798	.9888271	-.007869	1.004525
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass
Value						
Range						

Sample Name: S1 Acquired: 7/13/2018 10:16:48 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment: P6071318A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9958038	.0149920	1.001495	1.001654	1.006968	1.034990
Stddev	.0025829	.0000647	.003069	.006847	.003187	.002994
%RSD	.2593782	.4315994	.3064691	.6835983	.3165142	.2892673
#1	.9939774	.0149462	.999324	.996812	1.004714	1.032873
#2	.9976302	.0150377	1.003665	1.006495	1.009222	1.037107
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9851082	1.003432	.9905462	.9963826	.9977362	1.003044
Stddev	.0004386	.004626	.0009219	.0006096	.0038179	.001203
%RSD	.0445188	.4610567	.0930721	.0611788	.3826544	.1198887
#1	.9847981	1.000161	.9898943	.9959516	.9950366	1.002194
#2	.9854183	1.006703	.9911981	.9968136	1.000436	1.003894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	1.005405
Stddev	.004034
%RSD	.4012346
#1	1.002553
#2	1.008258
Check ?	Chk Pass
Value	
Range	

Sample Name: S1 Acquired: 7/13/2018 10:16:48 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment: P6071318A

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2137.750	1174.180	9044.193	4539.300
Stddev	4.478	.590	2.986	6.655
%RSD	.2094585	.0502586	.0330119	.1466117
#1	2140.916	1173.763	9046.304	4544.006
#2	2134.584	1174.597	9042.082	4534.594

Sample Name: S2 Acquired: 7/13/2018 10:20:42 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000373**	**99.99872**	**-.001789**	**.0014183**	**-.000147**	**.0000321**	**.0004466**
Stddev	.000794	.02460	.001236	.0004759	.000053	.0002082	.0020560
%RSD	213.1025	.0246017	69.10004	33.55586	35.70326	647.7422	460.3334
#1	.000189	99.98132	-.002663	.0017548	-.000110	.0001793	.0019004
#2	-.000934	100.0161	-.000915	.0010818	-.000185	-.000115	-.001007
Check ?	None	Chk Pass	None	None	None	None	None
Value							
Range							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**100.3249**	**.0006391**	**.0050752**	**-.000314**	**-.001094**	**.0028180**	**100.0476**
Stddev	.1033	.0000658	.0157807	.000161	.000239	.0002628	.0970
%RSD	.1029601	10.30099	310.9355	51.15941	21.83110	9.327092	.0969936
#1	100.2519	.0006856	-.006083	-.000201	-.001263	.0030039	99.9789
#2	100.3980	.0005925	.016234	-.000428	-.000925	.0026322	100.1162
Check ?	Chk Pass	None	None	None	None	None	Chk Pass
Value							
Range							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**99.47749**	**-.000294**	**100.0256**	**.0004557**	**.0000457**	**99.66194**	**-.000003**
Stddev	.06383	.000177	.1774	.0001414	.0002639	.07804	.000235
%RSD	.0641650	60.41324	.1773905	31.02561	577.8046	.0783033	7128.619
#1	99.52263	-.000419	99.9001	.0003557	.0002323	99.71712	-.000169
#2	99.43236	-.000168	100.1510	.0005556	-.000141	99.60676	.000163
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	None
Value							
Range							

Sample Name: S2 Acquired: 7/13/2018 10:20:42 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006212	.0015860	-.001986	-.002733	.0040087	.0011084	.0002343
Stddev	.0023592	.0003992	.004790	.000359	.0031211	.0000310	.0001131
%RSD	379.7861	25.16997	241.1775	13.15396	77.85856	2.792400	48.26531
#1	.0022894	.0018682	-.005373	-.002987	.0062156	.0011303	.0003142
#2	-.001047	.0013037	.001401	-.002479	.0018017	.0010865	.0001543
Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0022725	-.000380	.0002199
Stddev	.0012622	.000175	.0000573
%RSD	55.54142	46.07079	26.05410
#1	.0013800	-.000504	.0001794
#2	.0031650	-.000256	.0002604
Check ?	None	None	None
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1855.960	1137.752	8679.838	4384.862
Stddev	5.548	2.783	10.427	3.838
%RSD	.2989263	.2445652	.1201324	.0875245
#1	1852.037	1135.784	8687.211	4387.576
#2	1859.883	1139.719	8672.465	4382.148

Sample Name: ICV Acquired: 7/13/2018 10:24:40 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4049230**	**40.97597**	**.4010369**	**.4015175**	**.3912729**	**.4019437**
Stddev	.0007600	.09892	.0014550	.0002663	.0005799	.0025328
%RSD	.1876959	.2414163	.3628138	.0663328	.1482046	.6301473
#1	.4054604	40.90602	.4000081	.4013291	.3908628	.4001527
#2	.4043856	41.04592	.4020658	.4017058	.3916829	.4037347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4075037**	**20.87895**	**.4032223**	F **-.036538**	**.4030376**	**.3976086**
Stddev	.0026643	.10614	.0013972	.001361	.0012092	.0018862
%RSD	.6538015	.5083355	.3465191	3.724157	.3000316	.4743856
#1	.4093876	20.80390	.4022343	-.035576	.4021826	.3962748
#2	.4056198	20.95400	.4042103	-.037500	.4038927	.3989423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.4000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4139609**	**20.66708**	**40.03034**	**3.472742**	**20.27676**	**3.918706**
Stddev	.0002200	.21915	.07969	.003069	.01396	.014551
%RSD	.0531375	1.060401	.1990777	.0883649	.0688315	.3713251
#1	.4141165	20.51212	39.97399	3.474912	20.26689	3.908417
#2	.4138054	20.82205	40.08669	3.470572	20.28663	3.928996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICV Acquired: 7/13/2018 10:24:40 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3828299**	**20.45796**	**.4000324**	**.4065610**	**.3820402**	**.4073058**
Stddev	.0004081	.02618	.0001871	.0030257	.0006903	.0029732
%RSD	.1065989	.1279606	.0467691	.7442277	.1806799	.7299700
#1	.3825413	20.43945	.3999001	.4044215	.3815521	.4052034
#2	.3831185	20.47647	.4001647	.4087005	.3825283	.4094081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3652217**	**.4139467**	**.4029503**	**.4009124**	**.3996826**	**3.969811**
Stddev	.0007031	.0032223	.0003448	.0002861	.0017392	.002422
%RSD	.1925042	.7784300	.0855562	.0713711	.4351439	.0610089
#1	.3647246	.4162251	.4031941	.4011147	.4009124	3.971523
#2	.3657188	.4116682	.4027065	.4007101	.3984528	3.968098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	**.4161942**
Stddev	.0025079
%RSD	.6025704
#1	.4144209
#2	.4179675
Check ?	Chk Pass
Value	
Range	

Sample Name: ICV Acquired: 7/13/2018 10:24:40 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2019.678	1172.212	8954.040	4498.621
Stddev	2.517	2.429	5.088	14.380
%RSD	.1246203	.2072239	.0568192	.3196531
#1	2021.458	1173.930	8957.638	4508.789
#2	2017.898	1170.494	8950.443	4488.453

Sample Name: ICB Acquired: 7/13/2018 10:28:30 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000196**	**-.006708**	**.0010092**	**.0012001**	**-.000395**	**-.000056**
Stddev	.000127	.014763	.0008178	.0004518	.000028	.000100
%RSD	64.62613	220.0892	81.03282	37.64927	7.032151	177.4003
#1	-.000285	-.017147	.0015874	.0015196	-.000375	-.000127
#2	-.000106	.003731	.0004309	.0008806	-.000415	.000014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006201**	**.0011477**	**.0000724**	F **-.008421**	**-.000240**	**-.000585**
Stddev	.0012310	.0010042	.0002076	.002211	.000379	.000429
%RSD	198.5151	87.49384	286.8058	26.25544	157.6280	73.40796
#1	.0014906	.0004376	-.000074	-.006857	.000028	-.000281
#2	-.000250	.0018578	.000219	-.009984	-.000508	-.000888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017538**	**.0058604**	**.0061998**	**.0009544**	**.0122255**	**-.000371**
Stddev	.0000600	.0272868	.0075949	.0004519	.0174404	.000336
%RSD	3.420641	465.6115	122.5021	47.35135	142.6558	90.65745
#1	.0017963	.0251551	.0008294	.0012739	.0245577	-.000133
#2	.0017114	-.013434	.0115703	.0006348	-.000107	-.000609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICB Acquired: 7/13/2018 10:28:30 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001264	.0049448	-.000458	.0015809	-.002388	-.000375
Stddev	.0000990	.0012283	.000288	.0035567	.001680	.002578
%RSD	78.32486	24.84021	62.76046	224.9755	70.32657	688.0294
#1	.0001964	.0040762	-.000255	-.000934	-.001201	-.002198
#2	.0000564	.0058133	-.000662	.004096	-.003576	.001448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001101	.0001962	-.000052	-.000316	.0017268	-.000127
Stddev	.001459	.0016278	.000006	.000049	.0003994	.000343
%RSD	132.4628	829.5925	11.09463	15.54158	23.12936	269.2608
#1	-.002133	.0013472	-.000056	-.000351	.0014444	-.000369
#2	-.000070	-.000955	-.000048	-.000282	.0020092	.000115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	-.000407
Stddev	.000169
%RSD	41.43809
#1	-.000288
#2	-.000526
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICB Acquired: 7/13/2018 10:28:30 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2193.262	1207.928	9051.318	4517.735
Stddev	55.015	32.581	5.257	5.538
%RSD	2.508383	2.697250	.0580775	.1225751
#1	2154.360	1184.890	9055.035	4513.819
#2	2232.164	1230.966	9047.601	4521.651

Sample Name: ICVL Acquired: 7/13/2018 10:32:33 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0004333	F -.049065	F .0025695	F -.001263	F -.000971	F -.000135
Stddev	.0003090	.007377	.0004665	.000150	.000023	.000108
%RSD	71.31179	15.03514	18.15482	11.86844	2.334663	80.26354
#1	.0006517	-.054281	.0022396	-.001157	-.000954	-.000212
#2	.0002148	-.043848	.0028993	-.001369	-.000987	-.000058
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.0050000	.2000000	.0100000	.0500000	.0100000	.0040000
Range	-30.0000%	-30.0000%	-30.0000%	-30.0000%	-30.0000%	-30.0000%

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.002692	F -.009770	F -.000127	F -.007854	F -.000874	F -.000998
Stddev	.000360	.000473	.000097	.001707	.000075	.000152
%RSD	13.38155	4.845773	76.43286	21.72951	8.582373	15.24350
#1	-.002946	-.009435	-.000059	-.006647	-.000928	-.001106
#2	-.002437	-.010105	-.000196	-.009061	-.000821	-.000891
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.0500000	.2000000	.0020000	.0050000	.0050000	.0100000
Range	-30.0000%	-30.0000%	-30.0000%	-30.0000%	-30.0000%	-30.0000%

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.008507	F -.010179	F -.009093	F .0008626	F -.005849	F -.000641
Stddev	.000013	.007786	.003922	.0000707	.004347	.000065
%RSD	.1471754	76.49127	43.12779	8.196352	74.31241	10.13564
#1	-.008498	-.015684	-.011866	.0008126	-.008922	-.000687
#2	-.008515	-.004673	-.006320	.0009126	-.002776	-.000595
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.0100000	.2000000	.5000000	.0100000	.1000000	.0100000
Range	-30.0000%	-30.0000%	-30.0000%	-30.0000%	-30.0000%	-30.0000%

Sample Name: ICVL Acquired: 7/13/2018 10:32:33 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0001630	F -.011712	F -.010192	F .0010102	F -.003213	F -.000646
Stddev	.0000088	.001690	.000105	.0004881	.000032	.000384
%RSD	5.393819	14.42639	1.027658	48.31775	.9933677	59.34275
#1	.0001693	-.012907	-.010118	.0006651	-.003190	-.000918
#2	.0001568	-.010518	-.010266	.0013553	-.003235	-.000375
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.0100000	1.000000	.0100000	.0050000	.0200000	.0100000
Range	-30.0000%	-30.0000%	-30.0000%	-30.0000%	-30.0000%	-30.0000%

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.014257	F .0003408	F -.000101	F -.000791	F .0016752	F -.000455
Stddev	.003428	.0001055	.000003	.000009	.0000767	.000009
%RSD	24.04649	30.95160	2.774176	1.155092	4.577706	2.069061
#1	-.016681	.0004154	-.000099	-.000785	.0016210	-.000448
#2	-.011832	.0002662	-.000102	-.000798	.0017295	-.000461
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.2000000	.0400000	.0050000	.0050000	.0100000	.0050000
Range	-30.0000%	-30.0000%	-30.0000%	-30.0000%	-30.0000%	-30.0000%

Elem	Zn2062
Units	ppm
Avg	F -.000008
Stddev	.000027
%RSD	322.3597
#1	.000011
#2	-.000027
Check ?	Chk Fail
Value	.0200000
Range	-30.0000%

Sample Name: ICVL Acquired: 7/13/2018 10:32:33 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7538.574	4587.276	29905.59	12550.86
Stddev	10.636	14.028	21.20	38.71
%RSD	.1410840	.3058127	.0708751	.3084242
#1	7531.053	4597.196	29890.61	12578.24
#2	7546.094	4577.357	29920.58	12523.49

Sample Name: ICVL Acquired: 7/13/2018 10:36:36 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052265	.1947163	.0096450	.0504849	.0096309	.0039229
Stddev	.0004516	.0068013	.0010070	.0014651	.0000480	.0003107
%RSD	8.639567	3.492911	10.44055	2.902123	.4979773	7.920850
#1	.0055458	.1899071	.0103571	.0515209	.0096648	.0037032
#2	.0049072	.1995256	.0089330	.0494489	.0095970	.0041427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0498876	.2008112	.0019225	F -.013466	.0047977	.0090826
Stddev	.0011727	.0007985	.0002148	.005929	.0003310	.0007833
%RSD	2.350740	.3976166	11.17244	44.03092	6.898816	8.624262
#1	.0507168	.2002466	.0017706	-.017658	.0050318	.0096364
#2	.0490583	.2013757	.0020744	-.009273	.0045637	.0085287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0118612	.2209989	.4854196	.0108652	.0801745	.0095210
Stddev	.0000752	.0057163	.0023298	.0003988	.0184794	.0003989
%RSD	.6337430	2.586579	.4799610	3.670512	23.04895	4.189805
#1	.0119144	.2250409	.4870670	.0105832	.0932414	.0098030
#2	.0118081	.2169568	.4837721	.0111472	.0671076	.0092389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICVL Acquired: 7/13/2018 10:36:36 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092413	1.005202	.0103807	.0055276	.0158547	.0121450
Stddev	.0002808	.006425	.0009424	.0004136	.0016109	.0028856
%RSD	3.038380	.6391347	9.077890	7.481973	10.16053	23.75943
#1	.0094398	1.009745	.0110471	.0058200	.0169938	.0101046
#2	.0090427	1.000659	.0097144	.0052351	.0147156	.0141854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1836633	.0389663	.0050782	.0042368	.0096094	.0050221
Stddev	.0018552	.0015225	.0000087	.0001608	.0001409	.0000536
%RSD	1.010111	3.907324	.1720773	3.795346	1.466403	1.067768
#1	.1849751	.0400429	.0050720	.0041231	.0095098	.0049841
#2	.1823515	.0378897	.0050844	.0043505	.0097091	.0050600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0200596
Stddev	.0008040
%RSD	4.007990
#1	.0206281
#2	.0194911
Check ?	Chk Pass
Value	
Range	

Sample Name: ICVL Acquired: 7/13/2018 10:36:36 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2168.903	1186.007	8989.080	4524.999
Stddev	24.666	9.956	.643	13.734
%RSD	1.137252	.8394824	.0071539	.3035048
#1	2151.462	1178.967	8989.535	4515.288
#2	2186.345	1193.048	8988.626	4534.710

Sample Name: CRI Acquired: 7/13/2018 10:40:39 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0099366**	**.4068969**	**.0204767**	**.0998671**	**.0194597**	**.0077760**
Stddev	.0005386	.0008699	.0002449	.0001135	.0000204	.0001075
%RSD	5.419855	.2137877	1.196034	.1136199	.1049355	1.382456
#1	.0095558	.4075121	.0203036	.0999473	.0194453	.0078520
#2	.0103174	.4062818	.0206499	.0997869	.0194741	.0077000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1005350**	**.3952506**	**.0039502**	F **-.003482**	**.0095717**	**.0192379**
Stddev	.0010861	.0027100	.0000605	.000955	.0001210	.0003456
%RSD	1.080316	.6856330	1.531320	27.41843	1.264538	1.796415
#1	.0997670	.3971668	.0039074	-.004157	.0096573	.0194822
#2	.1013030	.3933343	.0039930	-.002807	.0094861	.0189935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0100000		
Range				-50.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0217739**	**.3746218**	**.9840143**	**.0209434**	**.1947622**	**.0200378**
Stddev	.0002211	.0370400	.0035007	.0002779	.0115218	.0004280
%RSD	1.015603	9.887306	.3557537	1.326996	5.915820	2.136118
#1	.0216176	.4008131	.9815389	.0211399	.1866151	.0203405
#2	.0219303	.3484306	.9864896	.0207469	.2029093	.0197351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CRI Acquired: 7/13/2018 10:40:39 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0192367	1.994096	.0198745	.0097763	.0370626	.0212075
Stddev	.0002773	.003636	.0004544	.0006959	.0002635	.0011435
%RSD	1.441474	.1823556	2.286300	7.118494	.7108411	5.391788
#1	.0190406	1.996667	.0195532	.0102684	.0368764	.0220161
#2	.0194327	1.991525	.0201958	.0092842	.0372489	.0203990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3649714	.0785558	.0100696	.0093321	.0203445	.0101618
Stddev	.0003970	.0012583	.0000124	.0002115	.0014577	.0000844
%RSD	.1087799	1.601745	.1227968	2.266108	7.165156	.8308290
#1	.3646907	.0776661	.0100783	.0091826	.0213753	.0102215
#2	.3652521	.0794455	.0100608	.0094816	.0193138	.0101021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0394660
Stddev	.0005157
%RSD	1.306707
#1	.0398306
#2	.0391013
Check ?	Chk Pass
Value	
Range	

Sample Name: CRI Acquired: 7/13/2018 10:40:39 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2151.666	1178.343	8988.828	4515.730
Stddev	3.245	1.118	7.544	7.018
%RSD	.1508240	.0948924	.0839232	.1554068
#1	2153.961	1177.553	8983.493	4510.768
#2	2149.372	1179.134	8994.162	4520.693

Sample Name: ICSA Acquired: 7/13/2018 10:44:41 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000279**	**494.6572**	**-.003387**	**-.000395**	**-.000364**	**.0007475**
Stddev	.0003210	1.1479	.004366	.000669	.000079	.0003618
%RSD	1149.622	.2320501	128.9222	169.1898	21.79767	48.40760
#1	.0002549	493.8455	-.006474	.000078	-.000420	.0004916
#2	-.000199	495.4689	-.000299	-.000868	-.000308	.0010034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031873**	**472.7145**	**.0012088**	F **.0399066**	**-.001686**	**.0013880**
Stddev	.0006797	.0358	.0004518	.0045729	.000603	.0004351
%RSD	21.32523	.0075699	37.37812	11.45898	35.77954	31.34916
#1	.0036679	472.6892	.0015283	.0366731	-.001260	.0016957
#2	.0027067	472.7398	.0008893	.0431402	-.002113	.0010803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031560**	**186.8534**	**-.018206**	**.0002821**	**506.0854**	**-.001002**
Stddev	.0000815	.0415	.012326	.0000864	.6409	.000679
%RSD	2.582085	.0221832	67.70550	30.63070	.1266456	67.81732
#1	.0030984	186.8827	-.009490	.0002210	505.6322	-.000521
#2	.0032137	186.8241	-.026922	.0003432	506.5386	-.001482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSA Acquired: 7/13/2018 10:44:41 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000754	.0229243	-.000555	.0003917	-.005183	-.002993
Stddev	.002027	.0002002	.003380	.0054184	.000006	.001402
%RSD	268.6896	.8731470	608.7990	1383.476	.1170235	46.84662
#1	-.002188	.0230659	.001835	-.003440	-.005188	-.003984
#2	.000679	.0227828	-.002945	.004223	-.005179	-.002001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001850	.0069685	.0044993	-.003672	.0045588	-.000581
Stddev	.000075	.0031586	.0000075	.000036	.0021105	.000031
%RSD	4.042900	45.32635	.1665667	.9760544	46.29441	5.283752
#1	-.001903	.0092020	.0044940	-.003647	.0060511	-.000602
#2	-.001797	.0047351	.0045046	-.003698	.0030665	-.000559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0036488
Stddev	.0000834
%RSD	2.284268
#1	.0035898
#2	.0037077
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICSA Acquired: 7/13/2018 10:44:41 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1838.784	1207.469	8300.047	4304.264
Stddev	227.573	155.066	1.242	7.432
%RSD	12.37629	12.84226	.0149586	.1726614
#1	1677.865	1097.820	8300.925	4299.009
#2	1999.702	1317.117	8299.169	4309.519

Sample Name: ICSAB Acquired: 7/13/2018 10:48:47 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2181424**	**495.6119**	**.0921654**	**-.001194**	**.4785159**	**.5031767**
Stddev	.0005032	.8774	.0010296	.000318	.0009667	.0008226
%RSD	.2306670	.1770308	1.117108	26.65086	.2020286	.1634915
#1	.2184982	494.9915	.0928935	-.000969	.4778323	.5025950
#2	.2177866	496.2323	.0914374	-.001419	.4791994	.5037584
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027354**	**479.5955**	**.9898728**	F **.0435104**	**.5114516**	**.4695706**
Stddev	.0008537	.7531	.0011406	.0050936	.0006861	.0013123
%RSD	31.21130	.1570179	.1152233	11.70657	.1341478	.2794683
#1	.0033391	480.1280	.9890663	.0399087	.5109665	.4686426
#2	.0021317	479.0630	.9906793	.0471121	.5119368	.4704985
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.2000000		
Range				-20.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5708420**	**187.5858**	**-.028857**	**.0002263**	**509.3598**	**.4640224**
Stddev	.0013246	.1190	.000501	.0005765	.8467	.0037952
%RSD	.2320372	.0634526	1.736602	254.7587	.1662369	.8178970
#1	.5699054	187.5016	-.029211	-.000181	508.7611	.4613387
#2	.5717786	187.6700	-.028502	.000634	509.9585	.4667060
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICSAB Acquired: 7/13/2018 10:48:47 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001961	.0242649	.9904995	.0491239	.5478278	.0420010
Stddev	.001488	.0061670	.0060617	.0001920	.0084562	.0018082
%RSD	75.88651	25.41526	.6119817	.3907580	1.543587	4.305111
#1	-.000909	.0286256	.9862132	.0489881	.5418484	.0407224
#2	-.003013	.0199042	.9947857	.0492596	.5538073	.0432796
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006592	.0054414	.0043844	-.003688	.1004778	.4854432
Stddev	.003285	.0017929	.0000040	.000077	.0000689	.0006257
%RSD	49.83001	32.95032	.0918115	2.099906	.0685457	.1288853
#1	-.008914	.0067091	.0043873	-.003634	.1004291	.4858856
#2	-.004269	.0041735	.0043816	-.003743	.1005265	.4850008
Check ?	None	None	None	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	1.019708
Stddev	.005226
%RSD	.5125300
#1	1.016013
#2	1.023404
Check ?	Chk Pass
Value	
Range	

Sample Name: ICSAB Acquired: 7/13/2018 10:48:47 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1697.579	1122.330	8403.171	4323.092
Stddev	2.516	.783	3.991	.907
%RSD	.1482208	.0697532	.0474883	.0209844
#1	1699.358	1121.776	8405.993	4323.733
#2	1695.800	1122.883	8400.350	4322.450

Sample Name: CCV Acquired: 7/13/2018 10:52:45 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5039836**	**50.27209**	**.4964843**	**.4910754**	**.4808486**	**.5067031**
Stddev	.0013162	.05989	.0062236	.0008296	.0001201	.0015956
%RSD	.2611581	.1191316	1.253539	.1689282	.0249674	.3148959
#1	.5049143	50.22974	.4920835	.4904888	.4807637	.5078314
#2	.5030529	50.31444	.5008850	.4916620	.4809335	.5055749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5100032**	**26.18586**	**.5003400**	F **-.043613**	**.5113811**	**.4955137**
Stddev	.0014662	.01567	.0015538	.007643	.0019164	.0005973
%RSD	.2874831	.0598231	.3105385	17.52419	.3747548	.1205343
#1	.5089665	26.17479	.4992414	-.049018	.5100260	.4950913
#2	.5110399	26.19694	.5014387	-.038209	.5127362	.4959360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5073318**	**25.82589**	**48.88588**	**3.812160**	**25.00991**	**4.925682**
Stddev	.0012774	.00841	.01093	.001440	.07613	.004406
%RSD	.2517920	.0325627	.0223652	.0377808	.3043863	.0894540
#1	.5064285	25.81994	48.87815	3.811141	25.06374	4.922567
#2	.5082351	25.83184	48.89361	3.813178	24.95608	4.928798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 7/13/2018 10:52:45 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4720767	24.66468	.5055642	.5122213	.4715578	.5052033
Stddev	.0029304	.01569	.0023088	.0032522	.0050085	.0020186
%RSD	.6207488	.0635953	.4566773	.6349252	1.062124	.3995522
#1	.4700046	24.65358	.5039316	.5099216	.4680163	.5066306
#2	.4741488	24.67577	.5071967	.5145210	.4750994	.5037760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4393014	.5220375	.4983711	.4969009	.5002153	4.984143
Stddev	.0010692	.0012116	.0005202	.0015549	.0011584	.003342
%RSD	.2433739	.2320821	.1043766	.3129133	.2315802	.0670438
#1	.4385454	.5211808	.4980032	.4958014	.4993962	4.986506
#2	.4400574	.5228942	.4987389	.4980003	.5010344	4.981780
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5283444
Stddev	.0032651
%RSD	.6179810
#1	.5260357
#2	.5306532
Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 7/13/2018 10:52:45 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2046.336	1213.979	9160.948	4524.255
Stddev	2.403	1.270	11.387	7.089
%RSD	.1174140	.1046349	.1243003	.1566912
#1	2048.035	1214.877	9169.000	4519.242
#2	2044.637	1213.081	9152.897	4529.267

Sample Name: CCB Acquired: 7/13/2018 10:56:38 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000573**	**.0082369**	**.0010495**	**-.000041**	**-.000437**	**-.000126**
Stddev	.000182	.0012469	.0001441	.000063	.000035	.000001
%RSD	31.68308	15.13829	13.72934	154.1957	8.048873	.4207679
#1	-.000445	.0091186	.0011514	-.000085	-.000462	-.000126
#2	-.000701	.0073552	.0009476	.000004	-.000412	-.000126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000010**	**.0065772**	**-.000032**	F **-.010943**	**-.000357**	**-.001057**
Stddev	.000320	.0012902	.000105	.001457	.000184	.000412
%RSD	3109.026	19.61610	333.4367	13.31565	51.61111	38.95157
#1	-.000237	.0056649	-.000106	-.009913	-.000487	-.001349
#2	.000216	.0074895	.000043	-.011974	-.000226	-.000766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008973**	**.0340162**	**-.012927**	**.0013809**	**.0013844**	**-.000024**
Stddev	.0000984	.0399223	.021566	.0001363	.0092153	.000410
%RSD	10.96988	117.3625	166.8314	9.871302	665.6531	1712.873
#1	.0008277	.0057869	.002323	.0014773	.0079006	.000266
#2	.0009669	.0622456	-.028177	.0012845	-.005132	-.000314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 7/13/2018 10:56:38 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001747	-.006488	.0009280	.0004890	-.000486	-.000418
Stddev	.0003390	.002039	.0004372	.0013360	.001688	.001398
%RSD	194.0430	31.43584	47.11667	273.2357	347.0211	334.0794
#1	.0004144	-.005045	.0012371	.0014336	.000707	-.001407
#2	-.000065	-.007930	.0006188	-.000456	-.001680	.000570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002212	-.000298	-.000067	-.000413	.0026330	.0005682
Stddev	.000741	.001977	.000003	.000051	.0001549	.0006281
%RSD	33.48960	664.2481	4.387494	12.34589	5.881635	110.5477
#1	-.002736	-.001696	-.000065	-.000449	.0027425	.0010123
#2	-.001689	.001100	-.000069	-.000377	.0025235	.0001240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	-.000231
Stddev	.000030
%RSD	13.11512
#1	-.000252
#2	-.000209
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 7/13/2018 10:56:38 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2222.997	1234.228	9294.981	4558.574
Stddev	9.150	4.760	.215	5.295
%RSD	.4116151	.3856394	.0023090	.1161462
#1	2216.527	1230.863	9295.133	4562.318
#2	2229.467	1237.594	9294.830	4554.830

Sample Name: MRL Acquired: 7/13/2018 11:00:42 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050668	.1949479	.0105537	.0484487	.0093612	.0035471
Stddev	.0000122	.0103496	.0000317	.0002119	.0001575	.0008518
%RSD	.2398572	5.308906	.3007813	.4374622	1.682816	24.01396
#1	.0050754	.2022662	.0105312	.0482989	.0092498	.0041494
#2	.0050582	.1876297	.0105761	.0485986	.0094725	.0029448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0486608	.2138953	.0021124	F -.005329	.0048972	.0093323
Stddev	.0010530	.0011587	.0000797	.006482	.0000218	.0002962
%RSD	2.163983	.5417341	3.773092	121.6224	.4448195	3.173844
#1	.0494054	.2130759	.0020560	-.009913	.0048818	.0091228
#2	.0479163	.2147146	.0021687	-.000746	.0049126	.0095417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0107730	.1931055	.4983840	.0106137	.0963622	.0100359
Stddev	.0002827	.0298344	.0007653	.0002974	.0056259	.0000381
%RSD	2.624551	15.44980	.1535538	2.801896	5.838262	.3800723
#1	.0105731	.1720094	.4978428	.0104035	.1003403	.0100089
#2	.0109729	.2142017	.4989251	.0108240	.0923841	.0100629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: MRL Acquired: 7/13/2018 11:00:42 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098337	.9803372	.0101997	.0046485	.0180101	.0087306
Stddev	.0004995	.0040611	.0002482	.0000885	.0016941	.0004258
%RSD	5.079217	.4142532	2.433574	1.904361	9.406648	4.877240
#1	.0094805	.9832088	.0103753	.0045859	.0192080	.0084295
#2	.0101869	.9774656	.0100242	.0047111	.0168121	.0090317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1778327	.0394752	.0050254	.0042581	.0109213	.0051360
Stddev	.0005863	.0003366	.0000101	.0001345	.0007638	.0005780
%RSD	.3296849	.8527118	.2012651	3.157999	6.993565	11.25293
#1	.1774181	.0392371	.0050182	.0043532	.0114614	.0047273
#2	.1782473	.0397132	.0050325	.0041630	.0103812	.0055446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0203004
Stddev	.0002336
%RSD	1.150757
#1	.0204656
#2	.0201353
Check ?	Chk Pass
Value	
Range	

Sample Name: MRL Acquired: 7/13/2018 11:00:42 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2229.594	1237.641	9309.687	4596.096
Stddev	5.534	3.078	30.336	.965
%RSD	.2481919	.2487110	.3258513	.0209888
#1	2225.681	1239.818	9331.138	4595.414
#2	2233.507	1235.465	9288.237	4596.778

Sample Name: LRC Acquired: 7/13/2018 11:08:00 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011988**	**.0391725**	**5.057344**	**4.938157**	**4.862493**	**4.975451**
Stddev	.0004240	.0037594	.012116	.018668	.005546	.011600
%RSD	35.36832	9.597002	.2395802	.3780389	.1140599	.2331439
#1	.0008990	.0365142	5.048777	4.924956	4.858571	4.983653
#2	.0014987	.0418308	5.065912	4.951357	4.866414	4.967248
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.894323**	**.0298267**	**4.936052**	F **-.053961**	**5.031978**	**5.003735**
Stddev	.014308	.0004663	.016884	.002218	.010771	.003341
%RSD	.2923379	1.563440	.3420608	4.111259	.2140570	.0667621
#1	4.884206	.0294970	4.924113	-.052393	5.024362	5.001372
#2	4.904440	.0301564	4.947991	-.055530	5.039595	5.006097
Check ?	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				5.000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.920019**	**.0195074**	**-.018226**	**4.843755**	**-.006501**	**4.960650**
Stddev	.000116	.0733357	.005053	.009091	.003847	.000758
%RSD	.0023492	375.9368	27.72156	.1876943	59.17972	.0152724
#1	4.919937	.0713636	-.014653	4.837326	-.003780	4.961185
#2	4.920100	-.032349	-.021799	4.850183	-.009221	4.960114
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass
Value						
Range						

Sample Name: LRC Acquired: 7/13/2018 11:08:00 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.993113**	**.0079351**	**5.010865**	**5.033843**	**5.028774**	**4.999217**
Stddev	.015493	.0017349	.015584	.005970	.024430	.020804
%RSD	.3102882	21.86311	.3110009	.1186066	.4858083	.4161487
#1	4.982158	.0091619	4.999845	5.029621	5.011499	4.984506
#2	5.004068	.0067084	5.021884	5.038065	5.046048	5.013928
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **5.547109**	**5.081735**	**4.573937**	**4.901249**	**4.986595**	**4.989799**
Stddev	.018993	.008774	.002318	.003617	.011976	.003641
%RSD	.3423977	.1726521	.0506753	.0737973	.2401739	.0729742
#1	5.533679	5.075531	4.572298	4.898692	4.978126	4.987224
#2	5.560540	5.087939	4.575576	4.903807	4.995063	4.992374
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	5.000000					
Range	10.00000%					

Elem	Zn2062
Units	ppm
Avg	**5.135157**
Stddev	.000673
%RSD	.0130979
#1	5.134681
#2	5.135632
Check ?	Chk Pass
Value	
Range	

Sample Name: LRC Acquired: 7/13/2018 11:08:00 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2148.941	1184.351	9258.299	4563.906
Stddev	7.904	4.965	6.102	10.594
%RSD	.3678042	.4192005	.0659078	.2321330
#1	2154.530	1187.861	9262.614	4556.415
#2	2143.353	1180.840	9253.985	4571.397

Sample Name: mb 500-440701/1-a Acquired: 7/13/2018 11:13:53 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000171**	**.0041748**	**-.000146**	**.0079465**	**-.000276**	**.0000606**	**-.002716**
Stddev	.000221	.0184991	.001130	.0004325	.000000	.0000583	.001256
%RSD	128.6416	443.1085	774.7914	5.443177	.1396021	96.20243	46.23877
#1	-.000327	.0172557	-.000945	.0082524	-.000275	.0000194	-.001828
#2	-.000015	-.008906	.000653	.0076407	-.000276	.0001017	-.003604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0292460**	**.0002876**	**-.004299**	**-.000621**	**-.000392**	**.0012298**	**.0157789**
Stddev	.0004678	.0000827	.000804	.000068	.000259	.0003547	.0086790
%RSD	1.599563	28.73874	18.70034	10.89781	65.98865	28.83830	55.00426
#1	.0289152	.0002292	-.004868	-.000573	-.000575	.0014806	.0219159
#2	.0295768	.0003461	-.003731	-.000668	-.000209	.0009790	.0096419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.015005**	**.0009327**	**-.003584**	**-.000202**	**.0006179**	**.0138571**	**-.001582**
Stddev	.035774	.0003125	.005347	.000564	.0000787	.0005117	.000294
%RSD	238.4212	33.50440	149.1858	278.8487	12.74360	3.692844	18.56275
#1	-.040301	.0011537	.000197	.000197	.0006735	.0134953	-.001789
#2	.010292	.0007117	-.007365	-.000601	.0005622	.0142190	-.001374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-440701/1-a Acquired: 7/13/2018 11:13:53 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005249	-.000398	.0015563	.0038699	-.000612	.0000661	.0008056
Stddev	.0000139	.000453	.0032124	.0011151	.000361	.0000090	.0000314
%RSD	2.652323	113.7445	206.4103	28.81402	58.96335	13.66073	3.900752
#1	.0005347	-.000718	-.000715	.0030814	-.000357	.0000725	.0008278
#2	.0005150	-.000078	.003828	.0046583	-.000868	.0000597	.0007833
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000134	.0001946	.0043488
Stddev	.001709	.0003760	.0002725
%RSD	1271.312	193.1819	6.266234
#1	-.001343	.0004605	.0045415
#2	.001074	-.000071	.0041562
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2244.902	1245.649	9397.115	4644.422
Stddev	15.359	7.180	14.669	2.754
%RSD	.6841553	.5764229	.1560987	.0592987
#1	2234.042	1240.572	9386.742	4642.475
#2	2255.762	1250.726	9407.487	4646.370

Sample Name: lcs 500-440701/2-a Acquired: 7/13/2018 11:17:57 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0487625**	**1.973077**	**.0983936**	**.9058315**	**1.897724**	**.0483823**
Stddev	.0004412	.005154	.0016032	.0019755	.007049	.0004670
%RSD	.9047769	.2612268	1.629399	.2180850	.3714456	.9652773
#1	.0490745	1.976721	.0972600	.9044346	1.892739	.0480521
#2	.0484506	1.969432	.0995273	.9072284	1.902708	.0487126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4717262**	**10.06105**	**.0483838**	F **-.018182**	**.4797578**	**.1921828**
Stddev	.0000016	.02982	.0001595	.000453	.0001089	.0022530
%RSD	.0003288	.2963651	.3295424	2.492343	.0226997	1.172343
#1	.4717251	10.08213	.0482710	-.017862	.4796807	.1937760
#2	.4717273	10.03996	.0484965	-.018503	.4798348	.1905897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				10.00000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2439858**	**1.036926**	**9.526348**	**.4722042**	**9.606658**	**.4869946**
Stddev	.0006949	.000679	.005376	.0002529	.021041	.0018773
%RSD	.2848312	.0654744	.0564364	.0535507	.2190230	.3854893
#1	.2434944	1.037407	9.522546	.4720254	9.591779	.4883221
#2	.2444772	1.036446	9.530149	.4723830	9.621536	.4856672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lcs 500-440701/2-a Acquired: 7/13/2018 11:17:57 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9378512	9.641902	.4796064	.0918121	.4761402	.0924304
Stddev	.0010972	.029897	.0009894	.0015566	.0020122	.0001909
%RSD	.1169938	.3100703	.2062865	1.695430	.4226093	.2065773
#1	.9370753	9.620762	.4803060	.0907115	.4747173	.0925654
#2	.9386270	9.663042	.4789068	.0929129	.4775630	.0922954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.528243	.9772227	.9566626	.9716171	.0941702	.4887395
Stddev	.017091	.0019076	.0035425	.0003129	.0000261	.0014302
%RSD	.3774242	.1952009	.3703014	.0322053	.0277318	.2926372
#1	4.516158	.9758739	.9591675	.9718384	.0941517	.4877282
#2	4.540328	.9785715	.9541576	.9713959	.0941886	.4897509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.4852929
Stddev	.0001715
%RSD	.0353432
#1	.4854142
#2	.4851716
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: lcs 500-440701/2-a Acquired: 7/13/2018 11:17:57 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2159.729	1213.721	9245.986	4615.581
Stddev	3.731	4.085	6.274	.583
%RSD	.1727423	.3365616	.0678606	.0126258
#1	2162.367	1216.610	9241.549	4615.993
#2	2157.091	1210.833	9250.422	4615.168

Sample Name: 500-148268-b-1-a Acquired: 7/13/2018 11:21:52 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000293**	**3.676066**	**.0031490**	**.4410212**	**.0479218**	**-.000196**	**-.001609**
Stddev	.000999	.026934	.0013243	.1164359	.0000812	.000142	.001754
%RSD	340.8863	.7326989	42.05414	26.40143	.1693587	72.52092	109.0169
#1	-.001000	3.695111	.0022126	.5233539	.0479792	-.000296	-.000369
#2	.000413	3.657020	.0040853	.3586886	.0478645	-.000095	-.002850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**454.2464**	**.0007164**	**.0055071**	**.0042480**	**.0050082**	**.0057337**	**.4539326**
Stddev	4.5887	.0005184	.0042207	.0012304	.0008265	.0001249	.0065778
%RSD	1.010179	72.35779	76.64125	28.96378	16.50382	2.179126	1.449067
#1	451.0017	.0010829	.0084916	.0051180	.0044237	.0056453	.4492814
#2	457.4911	.0003498	.0025226	.0033780	.0055926	.0058220	.4585838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.039121**	**.0106853**	**11.68429**	**.3341030**	**.0247210**	**391.4268**	**.1312328**
Stddev	.021143	.0001327	.00960	.0007477	.0058745	3.1503	.0351272
%RSD	.5234450	1.241766	.0821225	.2237900	23.76305	.8048361	26.76709
#1	4.054071	.0107792	11.69107	.3346317	.0288749	393.6544	.1560715
#2	4.024171	.0105915	11.67750	.3335743	.0205671	389.1992	.1063941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148268-b-1-a Acquired: 7/13/2018 11:21:52 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090403	.0025224	.0011098	1.453691	.0007653	.3021392	-.001302
Stddev	.0023731	.0012962	.0007426	.336918	.0008701	.0001477	.000149
%RSD	26.25019	51.38588	66.91463	23.17671	113.6908	.0488846	11.48546
#1	.0107184	.0034389	.0016349	1.691928	.0001501	.3020348	-.001196
#2	.0073623	.0016059	.0005847	1.215454	.0013806	.3022437	-.001407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000534	.0064698	.0343155
Stddev	.001084	.0000232	.0092964
%RSD	203.0230	.3592540	27.09106
#1	-.001300	.0064533	.0408890
#2	.000233	.0064862	.0277419
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2015.823	1255.172	8584.583	4337.957
Stddev	302.767	190.993	1.882	15.582
%RSD	15.01951	15.21649	.0219274	.3591994
#1	1801.735	1120.119	8585.914	4326.939
#2	2229.912	1390.224	8583.252	4348.975

Sample Name: 500-148268-b-1-aSD@5 Acquired: 7/13/2018 11:26:00 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002434**	**.7176176**	**.0002072**	**.1172232**	**.0091789**	**-.000173**
Stddev	.0006268	.0055636	.0000982	.0001357	.0000621	.000135
%RSD	257.4672	.7752939	47.38892	.1157524	.6759648	78.08888
#1	-.000200	.7136835	.0002767	.1173191	.0091351	-.000268
#2	.000687	.7215517	.0001378	.1171272	.0092228	-.000077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000242**	**88.43630**	**.0003064**	F **-.005651**	**.0005817**	**.0000359**
Stddev	.001526	.48595	.0002939	.006428	.0001954	.0002935
%RSD	630.0254	.5494958	95.91118	113.7482	33.58992	816.7099
#1	-.001322	88.09267	.0005142	-.001106	.0004435	.0002434
#2	.000837	88.77992	.0000986	-.010197	.0007198	-.000172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				10.00000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022849**	**.0623218**	**.7573920**	**.0028597**	**2.286846**	**.0663307**
Stddev	.0005164	.0372952	.0046759	.0003566	.020755	.0002916
%RSD	22.59834	59.84301	.6173687	12.47017	.9075940	.4395558
#1	.0026501	.0359501	.7540856	.0026076	2.272169	.0665369
#2	.0019198	.0886935	.7606983	.0031119	2.301522	.0661246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148268-b-1-aSD@5 Acquired: 7/13/2018 11:26:00 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056423	78.86837	.0314873	.0030817	-.002275	-.001179
Stddev	.0000028	.20110	.0012245	.0023410	.001091	.000239
%RSD	.0490539	.2549765	3.888933	75.96533	47.94627	20.28862
#1	.0056403	78.72617	.0306215	.0047371	-.003046	-.001348
#2	.0056442	79.01057	.0323532	.0014264	-.001504	-.001010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3240406	.0000192	.0614326	.0001696	-.000682	.0014418
Stddev	.0040420	.0003469	.0000541	.0000525	.000072	.0002306
%RSD	1.247388	1806.405	.0880379	30.92027	10.51124	15.99379
#1	.3211825	-.000226	.0614709	.0001325	-.000733	.0012787
#2	.3268988	.000264	.0613944	.0002067	-.000631	.0016048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0078822
Stddev	.0000601
%RSD	.7624314
#1	.0078397
#2	.0079247
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148268-b-1-aSD@5 Acquired: 7/13/2018 11:26:00 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1994.709	1135.452	8806.415	4502.987
Stddev	.407	.439	13.339	19.166
%RSD	.0204036	.0386739	.1514709	.4256263
#1	1994.421	1135.142	8796.983	4516.540
#2	1994.997	1135.763	8815.847	4489.435

Sample Name: 500-148268-b-1-b du Acquired: 7/13/2018 11:30:00 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000030**	**3.633751**	**.0005664**	**.4276968**	**.0472072**	**-.000375**	**-.001059**
Stddev	.000512	.005654	.0024132	.1296036	.0002162	.000120	.000995
%RSD	1709.656	.1555994	426.0853	30.30269	.4580289	31.97519	93.93027
#1	.000332	3.629753	-.001140	.5193404	.0470543	-.000459	-.000356
#2	-.000392	3.637749	.002273	.3360532	.0473601	-.000290	-.001763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**455.2583**	**.0006751**	**.0242668**	**.0040526**	**.0055168**	**.0055393**	**.4543382**
Stddev	2.2763	.0001426	.0010049	.0016220	.0001244	.0003146	.0427746
%RSD	.4999981	21.12327	4.141182	40.02392	2.255064	5.680031	9.414714
#1	453.6487	.0007759	.0249774	.0051995	.0054288	.0057617	.4845844
#2	456.8679	.0005743	.0235563	.0029057	.0056048	.0053168	.4240919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.000410**	**.0104325**	**11.61521**	**.3340996**	**.0237609**	**395.5845**	**.1267240**
Stddev	.007251	.0008498	.05854	.0012236	.0068253	2.6529	.0412840
%RSD	.1812584	8.145633	.5039657	.3662427	28.72511	.6706389	32.57787
#1	4.005537	.0110334	11.57382	.3332344	.0285871	397.4604	.1559162
#2	3.995283	.0098316	11.65660	.3349648	.0189346	393.7086	.0975318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148268-b-1-b du Acquired: 7/13/2018 11:30:00 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081278	.0022084	.0005179	1.363685	.0019950	.3025860	-.002699
Stddev	.0057762	.0025384	.0040933	.379481	.0007773	.0002173	.000088
%RSD	71.06674	114.9413	790.3272	27.82764	38.96333	.0718159	3.274719
#1	.0122122	.0040033	.0034124	1.632019	.0014454	.3027396	-.002762
#2	.0040434	.0004135	-.002377	1.095351	.0025447	.3024323	-.002637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0012834	.0072746	.0333848
Stddev	.0004688	.0001920	.0103546
%RSD	36.52374	2.639105	31.01600
#1	.0009520	.0074103	.0407066
#2	.0016149	.0071389	.0260630
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2031.955	1258.706	8543.881	4335.989
Stddev	337.661	202.768	.993	13.167
%RSD	16.61755	16.10925	.0116165	.3036579
#1	1793.192	1115.327	8543.179	4345.299
#2	2270.717	1402.084	8544.583	4326.679

Sample Name: 500-148268-b-1-c ms Acquired: 7/13/2018 11:34:10 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0521028	5.620831	.0882139	1.190294	1.949426	.0493257	.4371979
Stddev	.0000928	.007685	.0270790	.353643	.005147	.0001034	.1343597
%RSD	.1781099	.1367257	30.69693	29.71056	.2640405	.2096077	30.73202
#1	.0521684	5.615397	.1073616	1.440357	1.953066	.0492526	.5322045
#2	.0520371	5.626265	.0690662	.940230	1.945786	.0493988	.3421912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	447.6412	.0421375	.0020087	.4244019	.1917722	.2764188	1.365808
Stddev	5.2593	.0128119	.0075267	.1281939	.0002239	.0005456	.026043
%RSD	1.174893	30.40504	374.7007	30.20579	.1167683	.1973701	1.906816
#1	443.9223	.0511969	.0073309	.5150487	.1916139	.2760331	1.347393
#2	451.3600	.0330781	-.003313	.3337551	.1919306	.2768046	1.384224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.15750	.5101532	20.96606	.8023531	.7907187	400.2608	.5388500
Stddev	.02786	.0043257	.14402	.0005451	.2279383	6.9225	.1659712
%RSD	.1967828	.8479143	.6869264	.0679353	28.82672	1.729510	30.80101
#1	14.17720	.5132119	20.86422	.8027386	.9518954	405.1558	.6562094
#2	14.13780	.5070945	21.06790	.8019677	.6295420	395.3659	.4214906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148268-b-1-c ms Acquired: 7/13/2018 11:34:10 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0915500	.4018630	.0756639	5.415422	.8641429	1.252393	.9764929
Stddev	.0288988	.1197570	.0221381	1.503536	.2635147	.002101	.0009236
%RSD	31.56607	29.80045	29.25841	27.76397	30.49435	.1677786	.0945793
#1	.1119846	.4865440	.0913179	6.478582	1.050476	1.250907	.9758399
#2	.0711156	.3171821	.0600100	4.352261	.677810	1.253879	.9771460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0755678	.4972099	.4576769
Stddev	.0217577	.0017840	.1380542
%RSD	28.79222	.3587958	30.16411
#1	.0909528	.4959484	.5552960
#2	.0601828	.4984713	.3600579
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1993.699	1237.711	8507.989	4333.697
Stddev	325.458	192.856	21.384	20.443
%RSD	16.32430	15.58168	.2513433	.4717315
#1	1763.566	1101.341	8492.868	4319.242
#2	2223.833	1374.081	8523.110	4348.153

Sample Name: 500-148295-a-1-a Acquired: 7/13/2018 11:38:18 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000250**	**.2907313**	**-.001110**	**.2877001**	**.0175127**	**-.000131**	**-.003406**
Stddev	.000475	.0097329	.000906	.0013712	.0000677	.000400	.001043
%RSD	189.7665	3.347736	81.59696	.4765926	.3865344	304.3219	30.61580
#1	.000086	.2976135	-.001750	.2886697	.0174649	.000151	-.002669
#2	-.000587	.2838491	-.000470	.2867306	.0175606	-.000414	-.004143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**136.1829**	**.0006620**	**.0050314**	**-.000069**	**.0002741**	**.0058486**	**.1681970**
Stddev	.8530	.0001419	.0077788	.000333	.0010224	.0003234	.0246163
%RSD	.6263318	21.43674	154.6045	481.5492	373.0414	5.529492	14.63539
#1	135.5797	.0005617	.0105318	-.000304	-.000449	.0056199	.1507907
#2	136.7860	.0007623	-.000469	.000166	.000997	.0060772	.1856034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.04538**	**.0148732**	**58.22940**	**.0479295**	**.0057639**	**132.4777**	**.0049075**
Stddev	.07087	.0001443	.10593	.0003056	.0006518	.6475	.0001274
%RSD	.4710277	.9700530	.1819248	.6376223	11.30819	.4887651	2.595266
#1	15.09550	.0147712	58.15449	.0477134	.0062248	132.9356	.0049976
#2	14.99527	.0149752	58.30431	.0481456	.0053031	132.0199	.0048175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148295-a-1-a Acquired: 7/13/2018 11:38:18 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002007	-.000587	-.000955	6.218228	.0002123	.2535825	.0014843
Stddev	.002421	.003075	.002566	.001992	.0007682	.0000275	.0003771
%RSD	120.6140	524.2270	268.6381	.0320410	361.8623	.0108508	25.40986
#1	-.000295	.001588	-.002770	6.219637	-.000331	.2536019	.0017510
#2	-.003719	-.002761	.000859	6.216819	.000755	.2535630	.0012176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0004064	.0010634	.0397525
Stddev	.0019588	.0000807	.0010679
%RSD	481.9877	7.585112	2.686285
#1	-.000979	.0010064	.0389974
#2	.001791	.0011205	.0405076
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1900.120	1104.234	8633.744	4416.339
Stddev	1.508	2.865	8.014	.772
%RSD	.0793833	.2594641	.0928210	.0174912
#1	1899.053	1102.208	8628.078	4415.793
#2	1901.186	1106.260	8639.411	4416.885

Sample Name: 500-148302-a-5-a Acquired: 7/13/2018 11:42:18 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000283**	**.1434455**	**-.001226**	**.6700173**	**.0112300**	**-.000322**	**-.002890**
Stddev	.000554	.0096973	.002937	.0030608	.0001847	.000112	.000858
%RSD	196.2127	6.760253	239.5288	.4568254	1.644664	34.92619	29.69231
#1	.000109	.1365885	.000851	.6678530	.0110994	-.000401	-.002283
#2	-.000674	.1503026	-.003303	.6721816	.0113606	-.000242	-.003497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**376.2337**	**.0005077**	**.0191120**	**.0064448**	**-.000861**	**.0054896**	**.1209987**
Stddev	.0269	.0001287	.0242922	.0000261	.000175	.0002653	.0214935
%RSD	.0071460	25.35505	127.1047	.4049547	20.34502	4.832919	17.76344
#1	376.2147	.0005987	.0362891	.0064264	-.000737	.0053020	.1361969
#2	376.2527	.0004167	.0019348	.0064633	-.000984	.0056772	.1058004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.98882**	**.0099594**	**25.23923**	**.0174798**	**.0407458**	**44.88374**	**.0238248**
Stddev	.04785	.0003756	.08417	.0005106	.0004405	.00252	.0001142
%RSD	.0957152	3.770898	.3335014	2.921311	1.081014	.0056043	.4792547
#1	49.95499	.0102250	25.29875	.0171187	.0410573	44.88196	.0239055
#2	50.02265	.0096939	25.17971	.0178408	.0404344	44.88552	.0237440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148302-a-5-a Acquired: 7/13/2018 11:42:18 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006322	-.003420	-.001557	1.237444	.0005004	.3183556	-.001785
Stddev	.0004898	.000771	.000701	.005847	.0007771	.0005955	.000049
%RSD	77.48574	22.54765	45.04166	.4725133	155.3033	.1870550	2.733305
#1	.0009785	-.003966	-.001061	1.233310	.0010499	.3187767	-.001751
#2	.0002858	-.002875	-.002053	1.241579	-.000049	.3179345	-.001820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0023004	.0054463	.1762535
Stddev	.0006172	.0001669	.0009936
%RSD	26.82952	3.065221	.5637417
#1	.0027369	.0055643	.1755509
#2	.0018640	.0053282	.1769561
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1930.691	1143.012	8754.032	4370.394
Stddev	2.431	.600	30.108	11.976
%RSD	.1259261	.0524735	.3439320	.2740267
#1	1932.410	1143.436	8732.742	4361.926
#2	1928.972	1142.588	8775.321	4378.863

Sample Name: 500-148302-a-6-a Acquired: 7/13/2018 11:46:17 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000498**	**.2131035**	**.0015623**	**.8736156**	**.0268737**	**-.000271**	**-.000643**
Stddev	.000524	.0126390	.0005407	.0700708	.0000106	.000128	.000119
%RSD	105.3395	5.930930	34.60627	8.020787	.0392488	47.43309	18.47943
#1	-.000127	.2041664	.0019446	.9231632	.0268662	-.000180	-.000559
#2	-.000868	.2220407	.0011800	.8240681	.0268811	-.000361	-.000726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**445.2722**	**.0004840**	**.0135667**	**.0046847**	**-.000433**	**.0066968**	**.2249506**
Stddev	4.6520	.0000405	.0103327	.0003349	.000128	.0002277	.0445099
%RSD	1.044749	8.358629	76.16251	7.148399	29.55885	3.400048	19.78651
#1	441.9827	.0005126	.0208731	.0049214	-.000523	.0068578	.1934773
#2	448.5616	.0004554	.0062603	.0044478	-.000342	.0065358	.2564238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**35.51324**	**.0109940**	**23.66584**	**.0181304**	**.0267168**	**54.75933**	**.0185050**
Stddev	.16928	.0002119	.14040	.0007144	.0024165	.25669	.0019000
%RSD	.4766751	1.927217	.5932455	3.940299	9.044744	.4687553	10.26741
#1	35.63294	.0111438	23.56657	.0176252	.0284255	54.94084	.0198484
#2	35.39354	.0108442	23.76512	.0186355	.0250081	54.57783	.0171615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148302-a-6-a Acquired: 7/13/2018 11:46:17 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045311	-.001264	-.001653	.9867001	-.000319	.4077815	-.002913
Stddev	.0036110	.000628	.000135	.0754300	.000979	.0002942	.000264
%RSD	79.69445	49.70833	8.176367	7.644671	306.3801	.0721505	9.066258
#1	.0070844	-.001708	-.001748	1.040037	.000373	.4079895	-.002726
#2	.0019777	-.000820	-.001557	.933363	-.001012	.4075734	-.003100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000720	.0033657	.1796512
Stddev	.002877	.0000891	.0126657
%RSD	399.4803	2.648002	7.050167
#1	-.002755	.0034287	.1886072
#2	.001314	.0033027	.1706951
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2004.246	1205.124	8803.904	4359.962
Stddev	107.653	70.917	10.329	1.257
%RSD	5.371252	5.884654	.1173224	.0288310
#1	1928.124	1154.978	8796.600	4360.851
#2	2080.368	1255.270	8811.208	4359.074

Sample Name: 500-148302-a-7-a Acquired: 7/13/2018 11:50:22 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000603**	**.1544250**	**.0004168**	**.5144527**	**.0119552**	**-.000031**	**-.001237**
Stddev	.000139	.0148111	.0004466	.0875842	.0001071	.000279	.000162
%RSD	23.04463	9.591125	107.1548	17.02474	.8955602	907.7245	13.09872
#1	-.000505	.1648980	.0007326	.5763841	.0118795	.000167	-.001123
#2	-.000702	.1439520	.0001010	.4525213	.0120310	-.000228	-.001352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**408.6377**	**.0004297**	**.0169902**	**.0017124**	**-.000785**	**.0059701**	**.1222318**
Stddev	2.3630	.0000519	.0004087	.0007688	.000425	.0000344	.0112627
%RSD	.5782517	12.07759	2.405452	44.89776	54.19136	.5765995	9.214246
#1	406.9668	.0003930	.0172792	.0022560	-.001085	.0059457	.1301958
#2	410.3086	.0004664	.0167012	.0011688	-.000484	.0059944	.1142679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.76726**	**.0106014**	**19.11122**	**.0116556**	**.0238938**	**291.5083**	**.0178172**
Stddev	.00833	.0002598	.09782	.0003303	.0042342	1.0837	.0036673
%RSD	.0279950	2.450924	.5118295	2.834179	17.72093	.3717612	20.58290
#1	29.77315	.0104177	19.04205	.0114220	.0268879	292.2746	.0204104
#2	29.76137	.0107852	19.18038	.0118892	.0208998	290.7420	.0152240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148302-a-7-a Acquired: 7/13/2018 11:50:22 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018640	-.002812	-.002014	1.567085	.0009470	.3501764	-.002818
Stddev	.0023159	.000536	.002132	.266292	.0023295	.0005165	.000112
%RSD	124.2450	19.06360	105.8539	16.99279	245.9800	.1475103	3.986799
#1	.0035015	-.003191	-.003522	1.755382	.0025943	.3505417	-.002897
#2	.0002264	-.002433	-.000507	1.378789	-.000700	.3498112	-.002738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0019391	.0068701	.1169607
Stddev	.0020384	.0000328	.0200325
%RSD	105.1204	.4772210	17.12753
#1	.0004977	.0068933	.1311258
#2	.0033804	.0068470	.1027956
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2024.086	1244.752	8633.663	4315.247
Stddev	243.314	149.679	33.021	2.852
%RSD	12.02092	12.02480	.3824704	.0660814
#1	1852.037	1138.913	8610.314	4313.231
#2	2196.135	1350.592	8657.013	4317.264

Sample Name: CCV Acquired: 7/13/2018 11:54:28 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5121124**	**50.01058**	**.5085974**	**.5063031**	**.4807805**	**.4971863**
Stddev	.0001822	.06560	.0052995	.0076908	.0007464	.0002468
%RSD	.0355839	.1311752	1.041987	1.519010	.1552514	.0496470
#1	.5119835	50.05696	.5048501	.5008649	.4813083	.4970117
#2	.5122412	49.96419	.5123447	.5117413	.4802527	.4973608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5171412**	**25.44401**	**.5084033**	F **-.041129**	**.5108715**	**.4867494**
Stddev	.0094407	.07281	.0076354	.006514	.0082938	.0018333
%RSD	1.825548	.2861386	1.501840	15.83690	1.623469	.3766390
#1	.5104656	25.49549	.5030042	-.045735	.5050069	.4880457
#2	.5238167	25.39253	.5138023	-.036524	.5167362	.4854531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5137310**	**25.37364**	**48.94192**	**3.862181**	**24.63857**	**4.836774**
Stddev	.0012257	.03560	.01481	.006404	.06762	.000493
%RSD	.2385780	.1403017	.0302599	.1658082	.2744586	.0101969
#1	.5128643	25.39881	48.93145	3.866709	24.68639	4.837123
#2	.5145976	25.34846	48.95239	3.857652	24.59075	4.836425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 7/13/2018 11:54:28 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4811488**	**25.04395**	**.5044510**	**.5083580**	**.4794072**	**.5160805**
Stddev	.0082112	.04093	.0072748	.0088629	.0120954	.0093449
%RSD	1.706589	.1634161	1.442115	1.743443	2.522995	1.810738
#1	.4753425	25.07288	.4993070	.5020910	.4708544	.5094727
#2	.4869550	25.01501	.5095951	.5146251	.4879599	.5226883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4517075**	**.5242039**	**.5019072**	**.4938575**	**.4982047**	**4.996964**
Stddev	.0087657	.0060434	.0006430	.0006627	.0046998	.009885
%RSD	1.940576	1.152863	.1281045	.1341913	.9433516	.1978193
#1	.4455092	.5199306	.5014526	.4933889	.4948814	5.003953
#2	.4579058	.5284772	.5023619	.4943262	.5015279	4.989974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	**.5209223**
Stddev	.0086767
%RSD	1.665641
#1	.5147870
#2	.5270577
Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 7/13/2018 11:54:28 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1992.495	1167.563	8911.986	4502.480
Stddev	14.334	9.406	2.380	5.037
%RSD	.7193993	.8055934	.0267103	.1118723
#1	2002.631	1174.214	8913.669	4498.919
#2	1982.359	1160.912	8910.302	4506.042

Sample Name: CCB Acquired: 7/13/2018 11:58:20 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000483**	**-.001057**	**.0004833**	**.0045386**	**-.000390**	**-.000321**
Stddev	.000598	.007066	.0009010	.0001788	.000016	.000055
%RSD	123.7844	668.8424	186.4314	3.938448	4.220841	17.01734
#1	-.000060	.003940	-.000154	.0046650	-.000378	-.000360
#2	-.000906	-.006053	.001120	.0044122	-.000401	-.000282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016710**	**.0151681**	**.0000086**	F **-.013572**	**-.000229**	**-.000277**
Stddev	.0012186	.0003773	.0000168	.001457	.000100	.000645
%RSD	72.92887	2.487346	194.4597	10.73618	43.76992	233.1819
#1	.0008093	.0154349	-.000003	-.012542	-.000300	.000180
#2	.0025326	.0149013	.000020	-.014603	-.000158	-.000733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012949**	**-.044057**	**.0012764**	**.0011816**	**.0040577**	**.0001454**
Stddev	.0002509	.036565	.0219692	.0003339	.0231241	.0004662
%RSD	19.37819	82.99452	1721.230	28.26094	569.8811	320.7340
#1	.0014723	-.069912	.0168110	.0014177	-.012293	-.000184
#2	.0011175	-.018202	-.014258	.0009454	.020409	.000475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 7/13/2018 11:58:20 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000186	.0172749	.0004281	.0003706	-.001066	-.001343
Stddev	.000142	.0022971	.0013859	.0016297	.002121	.000980
%RSD	76.41763	13.29708	323.7502	439.6836	198.9303	72.93414
#1	-.000287	.0188991	-.000552	-.000782	.000434	-.000650
#2	-.000086	.0156506	.001408	.001523	-.002566	-.002036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001492	.0013898	-.000046	-.000327	.0003384	.0004999
Stddev	.001684	.0005241	.000007	.000100	.0023295	.0000094
%RSD	112.9322	37.70858	14.83777	30.61074	688.3828	1.882301
#1	-.002683	.0017604	-.000051	-.000256	-.001309	.0004933
#2	-.000300	.0010193	-.000042	-.000398	.001986	.0005066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	-.000191
Stddev	.000482
%RSD	252.8354
#1	.000150
#2	-.000531
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 7/13/2018 11:58:20 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2196.733	1210.427	9158.505	4557.314
Stddev	3.359	1.080	2.415	5.633
%RSD	.1529305	.0891918	.0263637	.1236112
#1	2194.357	1209.664	9160.213	4561.297
#2	2199.108	1211.190	9156.798	4553.330

Sample Name: 500-148302-b-8-a Acquired: 7/13/2018 12:02:25 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000647**	**.1528439**	**.0005557**	**6.692501**	**.0081843**	**.0000458**	**-.001968**
Stddev	.000010	.0143182	.0020441	.927100	.0000014	.0000291	.000163
%RSD	1.527779	9.367830	367.8630	13.85282	.0172119	63.49136	8.301189
#1	-.000640	.1629683	-.000890	7.348059	.0081853	.0000252	-.002083
#2	-.000654	.1427194	.002001	6.036942	.0081833	.0000663	-.001852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**394.5199**	**.0003878**	**.0090239**	**.0028644**	**-.000156**	**.0065658**	**.1021885**
Stddev	.8066	.0001535	.0011869	.0006129	.000033	.0000258	.0004475
%RSD	.2044613	39.57371	13.15279	21.39828	20.97656	.3932190	.4378684
#1	393.9495	.0004963	.0098632	.0032978	-.000179	.0065840	.1025049
#2	395.0903	.0002793	.0081847	.0024310	-.000133	.0065475	.1018721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.41456**	**.0107543**	**23.64450**	**.0366715**	**.0217164**	**363.9866**	**.0346751**
Stddev	.04540	.0003783	.02708	.0007998	.0025317	.8967	.0055916
%RSD	.1786446	3.517382	.1145307	2.181024	11.65801	.2463651	16.12570
#1	25.44666	.0110218	23.66365	.0361059	.0235066	363.3525	.0386289
#2	25.38245	.0104869	23.62535	.0372370	.0199262	364.6206	.0307212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148302-b-8-a Acquired: 7/13/2018 12:02:25 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023406	-.000769	.0005035	2.724159	-.000301	.3030120	-.002607
Stddev	.0016083	.001034	.0001940	.366557	.001138	.0004543	.000162
%RSD	68.71468	134.5768	38.52282	13.45579	378.0695	.1499129	6.193723
#1	.0034779	-.000037	.0006406	2.983354	.000504	.3033332	-.002722
#2	.0012033	-.001500	.0003663	2.464964	-.001106	.3026908	-.002493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0023463	.0140063	.0837780
Stddev	.0012067	.0000177	.0115597
%RSD	51.43082	.1266344	13.79803
#1	.0014930	.0139937	.0919519
#2	.0031996	.0140188	.0756040
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1972.665	1224.361	8575.879	4334.280
Stddev	191.294	122.313	28.463	2.147
%RSD	9.697261	9.989932	.3318997	.0495367
#1	1837.399	1137.873	8555.752	4332.762
#2	2107.930	1310.850	8596.005	4335.798

Sample Name: 500-148302-a-9-a Acquired: 7/13/2018 12:06:31 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000498**	**.4606470**	**.0978983**	**.3297608**	**.0621948**	**-.000111**	**-.003838**
Stddev	.0005179	.0016776	.0001130	.0013186	.0001423	.000295	.001645
%RSD	1038.968	.3641949	.1154436	.3998666	.2287318	265.4994	42.86126
#1	-.000316	.4618332	.0979782	.3288284	.0622954	.000097	-.005002
#2	.000416	.4594607	.0978184	.3306932	.0620942	-.000320	-.002675
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**186.6004**	**.0003405**	**.0141307**	**.0010146**	**.0002743**	**.0220542**	**.8629643**
Stddev	.3514	.0002778	.0041561	.0000760	.0010748	.0001082	.0466651
%RSD	.1882997	81.58816	29.41205	7.494242	391.7635	.4907502	5.407539
#1	186.3519	.0001441	.0111919	.0010684	.0010343	.0221308	.8959616
#2	186.8488	.0005369	.0170695	.0009608	-.000486	.0219777	.8299671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.78136**	**.0079244**	**25.67807**	**.0831460**	**.0088644**	**104.9609**	**.0099439**
Stddev	.02108	.0004009	.01554	.0003478	.0006703	.1346	.0008016
%RSD	.1529593	5.059210	.0605092	.4183033	7.561325	.1282678	8.061010
#1	13.79627	.0076409	25.66708	.0833919	.0093384	105.0561	.0093771
#2	13.76646	.0082079	25.68905	.0829001	.0083905	104.8657	.0105107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148302-a-9-a Acquired: 7/13/2018 12:06:31 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001495	-.001471	.0024764	3.689850	.0012129	.3208596	.0005037
Stddev	.000321	.000117	.0002183	.003915	.0003027	.0005103	.0000774
%RSD	21.44606	7.934539	8.816705	.1060957	24.96095	.1590545	15.37386
#1	-.001722	-.001389	.0026308	3.687081	.0014269	.3204988	.0004490
#2	-.001268	-.001554	.0023220	3.692618	.0009988	.3212205	.0005585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001619	.0022103	.0545900
Stddev	.000726	.0002065	.0002088
%RSD	44.88475	9.341611	.3824704
#1	-.001105	.0020643	.0544423
#2	-.002132	.0023562	.0547376
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1906.171	1095.491	8677.378	4450.750
Stddev	2.663	.154	10.873	2.712
%RSD	.1397200	.0140785	.1253010	.0609386
#1	1908.055	1095.382	8685.067	4452.668
#2	1904.288	1095.600	8669.690	4448.832

Sample Name: 500-148302-b-10-a Acquired: 7/13/2018 12:10:27 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002982	.3133810	.0437739	.2220561	.0408258	-.000084	-.002073
Stddev	.0002709	.0134306	.0045068	.0230882	.0000271	.000147	.001507
%RSD	90.87195	4.285707	10.29561	10.39745	.0664600	175.3562	72.69424
#1	.0004897	.3038842	.0469607	.2383819	.0408067	.000020	-.003139
#2	.0001066	.3228779	.0405872	.2057303	.0408450	-.000188	-.001007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	175.7096	.0004331	.0015442	.0009967	.0002639	.0207534	.5982084
Stddev	.5551	.0000327	.0114849	.0000361	.0005856	.0000375	.0333486
%RSD	.3158965	7.542572	743.7413	3.619604	221.8723	.1806376	5.574743
#1	175.3171	.0004562	-.006577	.0009712	.0006780	.0207269	.6217894
#2	176.1021	.0004100	.009665	.0010222	-.000150	.0207799	.5746274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.10103	.0073914	25.52727	.1178686	.0087282	304.5681	.0181825
Stddev	.02232	.0005387	.12996	.0006816	.0009141	3.3049	.0028208
%RSD	.1844692	7.287909	.5091143	.5782371	10.47299	1.085115	15.51393
#1	12.11681	.0077723	25.43538	.1173867	.0093745	306.9051	.0201772
#2	12.08524	.0070105	25.61917	.1183506	.0080818	302.2312	.0161879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148302-b-10-a Acquired: 7/13/2018 12:10:27 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001091	-.002343	-.001259	4.247670	.0003360	.2467472	.0023143
Stddev	.002327	.001714	.001038	.449589	.0006894	.0002270	.0002934
%RSD	213.3328	73.16496	82.46992	10.58436	205.1816	.0919925	12.67813
#1	.000555	-.003555	-.001993	4.565578	-.000151	.2465867	.0021068
#2	-.002736	-.001131	-.000525	3.929763	.000823	.2469077	.0025217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000570	.0124733	.0336297
Stddev	.000555	.0003187	.0033956
%RSD	97.28959	2.554833	10.09710
#1	-.000178	.0122480	.0360308
#2	-.000962	.0126987	.0312287
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1964.688	1183.784	8620.075	4397.939
Stddev	143.526	88.746	5.406	3.565
%RSD	7.305261	7.496791	.0627128	.0810706
#1	1863.200	1121.031	8616.253	4400.460
#2	2066.176	1246.537	8623.898	4395.418

Sample Name: 500-148302-a-11-a Acquired: 7/13/2018 12:14:30 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000242**	**.0358775**	**.0344937**	**.2350793**	**.0007857**	**-.000060**	**-.002505**
Stddev	.000464	.0094858	.0051334	.0405191	.0000853	.000096	.000224
%RSD	192.1582	26.43945	14.88203	17.23635	10.85625	160.6368	8.958167
#1	-.000570	.0425849	.0381235	.2637306	.0007254	-.000128	-.002663
#2	.000087	.0291700	.0308638	.2064280	.0008461	.000008	-.002346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.25523**	**.0002310**	**-.001004**	**-.000211**	**.0004873**	**.0023043**	**.0210271**
Stddev	.01619	.0004246	.000042	.000014	.0004081	.0001196	.0367086
%RSD	.1579079	183.8704	4.210783	6.484829	83.74953	5.188212	174.5774
#1	10.26668	.0005312	-.001034	-.000202	.0001987	.0023889	-.004930
#2	10.24378	-.000069	-.000974	-.000221	.0007759	.0022198	.046984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.441380**	**.0028727**	**3.362936**	**.0016516**	**.0004200**	**290.8831**	**.0016508**
Stddev	.025237	.0001912	.002381	.0004053	.0002856	.7826	.0027538
%RSD	.7333274	6.654710	.0707928	24.53713	67.99882	.2690505	166.8185
#1	3.423535	.0030079	3.364619	.0013650	.0006219	290.3297	.0035980
#2	3.459225	.0027375	3.361252	.0019381	.0002180	291.4365	-.000296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148302-a-11-a Acquired: 7/13/2018 12:14:30 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001089	-.002271	.0009514	.3393160	-.000362	.0247624	-.000276
Stddev	.000369	.001745	.0014076	.0540718	.001198	.0000103	.000171
%RSD	33.88465	76.82565	147.9510	15.93553	330.7829	.0416347	61.89611
#1	-.000828	-.001037	.0019467	.3775505	.000485	.0247697	-.000155
#2	-.001350	-.003505	-.000044	.3010814	-.001210	.0247552	-.000397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0009990	-.000107	.0074077
Stddev	.0003387	.000052	.0012971
%RSD	33.90601	48.44381	17.50962
#1	.0012385	-.000070	.0083248
#2	.0007595	-.000144	.0064905
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2116.324	1249.125	8815.641	4473.715
Stddev	232.746	145.294	2.430	1.517
%RSD	10.99766	11.63168	.0275616	.0338997
#1	1951.748	1146.387	8817.359	4472.642
#2	2280.900	1351.864	8813.923	4474.787

Sample Name: 500-148302-a-12-a Acquired: 7/13/2018 12:18:36 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000092**	**.0476453**	**.0352346**	**.2973570**	**.0010447**	**-.000132**	**-.001652**
Stddev	.000105	.0030752	.0089842	.0492654	.0000083	.000295	.000826
%RSD	113.8846	6.454420	25.49838	16.56777	.7938790	223.3098	50.00368
#1	-.000018	.0454708	.0415874	.3321929	.0010388	.000076	-.002236
#2	-.000166	.0498198	.0288818	.2625211	.0010506	-.000341	-.001068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.85588**	**.0003199**	**-.003238**	**-.000703**	**.0007636**	**.0021455**	**.0432023**
Stddev	.01049	.0002265	.008437	.000226	.0006925	.0000731	.0569797
%RSD	.0815859	70.79343	260.5684	32.11666	90.69139	3.409001	131.8903
#1	12.84847	.0004801	-.009203	-.000544	.0002739	.0021972	.0834930
#2	12.86330	.0001598	.002728	-.000863	.0012533	.0020938	.0029116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.077187**	**.0038105**	**4.526949**	**.0037219**	**.0000378**	**368.0881**	**.0013082**
Stddev	.005203	.0001109	.012128	.0002491	.0002663	.4402	.0015876
%RSD	.1276234	2.908947	.2679135	6.692815	704.4240	.1195838	121.3623
#1	4.073507	.0037322	4.535525	.0035457	-.000150	367.7768	.0024308
#2	4.080866	.0038889	4.518373	.0038980	.000226	368.3994	.0001856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148302-a-12-a Acquired: 7/13/2018 12:18:36 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001775	-.004945	-.001971	.4545838	-.000160	.0324519	-.000052
Stddev	.000932	.001446	.001525	.0675531	.001402	.0000258	.000146
%RSD	52.48169	29.24486	77.38020	14.86044	877.8907	.0795878	280.1811
#1	-.002434	-.005967	-.003050	.5023511	-.001151	.0324701	.000051
#2	-.001117	-.003922	-.000893	.4068165	.000832	.0324336	-.000155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0021621	.0001383	.0070991
Stddev	.0003171	.0000961	.0011961
%RSD	14.66777	69.51038	16.84848
#1	.0019378	.0002062	.0079448
#2	.0023863	.0000703	.0062533
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2071.775	1236.187	8761.483	4448.707
Stddev	219.740	140.290	.068	2.082
%RSD	10.60638	11.34864	.0007817	.0468043
#1	1916.395	1136.987	8761.531	4447.234
#2	2227.155	1335.387	8761.435	4450.179

Sample Name: 00-148302-a-13-a Acquired: 7/13/2018 12:22:41 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011181**	**3.109305**	**17.29854**	**.2631870**	**1.306889**	**.0018651**
Stddev	.0000529	.002710	5.35106	.0794461	.003910	.0000874
%RSD	4.733927	.0871681	30.93357	30.18620	.2992222	4.687182
#1	.0011555	3.111222	21.08231	.3193639	1.304124	.0019269
#2	.0010807	3.107389	13.51477	.2070101	1.309655	.0018033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001400**	**473.8529**	F **-.015416**	**.3058219**	**.0178665**	**.1936493**
Stddev	.002651	3.2213	.004587	.0063934	.0070266	.0022187
%RSD	189.3048	.6798152	29.75522	2.090550	39.32840	1.145752
#1	.000474	471.5751	-.018660	.3013011	.0228350	.1920804
#2	-.003274	476.1307	-.012173	.3103427	.0128979	.1952182
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			10.00000			
Low Limit			-.002000			

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2298168**	**206.5710**	**25.12126**	**.0175839**	**78.41882**	**3.334128**
Stddev	.0011777	.6639	.06382	.0002703	.31098	.010814
%RSD	.5124396	.3214037	.2540452	1.536986	.3965666	.3243362
#1	.2289840	206.1015	25.07614	.0173928	78.19893	3.326481
#2	.2306495	207.0404	25.16639	.0177750	78.63872	3.341774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 00-148302-a-13-a Acquired: 7/13/2018 12:22:41 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043513	903.8231	.0203954	.0289136	.0272356	.0008739
Stddev	.0007093	1.5727	.0127719	.0156459	.0102088	.0008937
%RSD	16.30199	.1740024	62.62179	54.11253	37.48348	102.2648
#1	.0038497	904.9352	.0294265	.0399770	.0344543	.0015059
#2	.0048529	902.7111	.0113642	.0178503	.0200168	.0002420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.61248	.0087495	1.868097	.3082128	.0017255	.2336540
Stddev	5.51162	.0030996	.007874	.0002455	.0028314	.0003486
%RSD	31.29382	35.42660	.4214842	.0796398	164.0920	.1491939
#1	21.50978	.0109413	1.862529	.3083863	.0037276	.2334075
#2	13.71518	.0065577	1.873664	.3080392	-.000277	.2339005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.486179
Stddev	.449122
%RSD	30.21994
#1	1.803756
#2	1.168601
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 00-148302-a-13-a Acquired: 7/13/2018 12:22:41 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1879.712	1230.433	8379.108	4361.985
Stddev	337.117	207.545	21.884	5.326
%RSD	17.93449	16.86760	.2611707	.1221005
#1	1641.335	1083.677	8394.582	4365.751
#2	2118.090	1377.189	8363.633	4358.219

Sample Name: 500-148302-a-14-a Acquired: 7/13/2018 12:26:51 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005977**	**.5846784**	**13.80956**	**.4129150**	**.6045091**	**-.000100**
Stddev	.0013135	.0013575	2.57571	.0790673	.0012112	.000322
%RSD	219.7724	.2321840	18.65166	19.14856	.2003559	320.8975
#1	-.000331	.5837185	15.63086	.4688240	.6036527	.000128
#2	.001526	.5856383	11.98826	.3570060	.6053655	-.000329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002719**	**387.0201**	F **-.013118**	**.0182105**	**.0118560**	**.0205328**
Stddev	.000047	.8564	.002632	.0064545	.0020987	.0007161
%RSD	1.739460	.2212705	20.06378	35.44402	17.70128	3.487445
#1	-.002752	386.4145	-.014979	.0227746	.0133399	.0200265
#2	-.002685	387.6256	-.011257	.0136465	.0103720	.0210391
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			10.00000			
Low Limit			-.002000			

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0251664**	**59.14616**	**27.88733**	**.0196195**	**93.33372**	**1.771529**
Stddev	.0002746	.00802	.07318	.0002747	.17732	.003567
%RSD	1.091069	.0135612	.2624079	1.399991	.1899867	.2013706
#1	.0249722	59.15183	27.83558	.0198137	93.20833	1.769007
#2	.0253605	59.14049	27.93907	.0194253	93.45910	1.774052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148302-a-14-a Acquired: 7/13/2018 12:26:51 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010411	F 1182.129	.0100922	.0034444	.0005714	-.000073
Stddev	.0001738	14.602	.0045755	.0007625	.0001710	.000612
%RSD	16.69441	1.235262	45.33679	22.13864	29.92314	834.6966
#1	.0009182	1171.803	.0133275	.0039836	.0006923	.000359
#2	.0011640	1192.454	.0068568	.0029052	.0004505	-.000506
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.97017	.0057289	1.319589	.0717711	-.000144	.0328267
Stddev	3.76463	.0013371	.001546	.0002540	.001270	.0002751
%RSD	18.85127	23.33875	.1171320	.3538739	882.3243	.8379761
#1	22.63217	.0066743	1.318496	.0719507	-.001042	.0326322
#2	17.30818	.0047835	1.320682	.0715915	.000754	.0330212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.2980710
Stddev	.0521257
%RSD	17.48770
#1	.3349294
#2	.2612125
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148302-a-14-a Acquired: 7/13/2018 12:26:51 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1789.887	1165.177	8068.943	4233.479
Stddev	241.081	158.683	.766	10.919
%RSD	13.46905	13.61876	.0094924	.2579232
#1	1619.417	1052.972	8069.484	4241.200
#2	1960.356	1277.383	8068.401	4225.758

Sample Name: 500-148288-a-1-a Acquired: 7/13/2018 12:30:56 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000535**	**.7121435**	**.0068747**	**.0720239**	**.0465293**	**-.000035**	**-.001387**
Stddev	.000045	.0019311	.0008073	.0032291	.0000275	.000548	.000908
%RSD	8.393072	.2711659	11.74347	4.483411	.0591156	1570.146	65.43140
#1	-.000503	.7135090	.0063038	.0743072	.0465099	.000352	-.002029
#2	-.000566	.7107780	.0074455	.0697405	.0465488	-.000422	-.000745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**101.1272**	**.0010226**	**.0143115**	**.0002047**	**.0039204**	**.0848246**	**7.844863**
Stddev	.4978	.0004076	.0128909	.0001808	.0000721	.0003606	.025063
%RSD	.4922942	39.85673	90.07319	88.32996	1.839252	.4250865	.3194883
#1	101.4792	.0013108	.0234267	.0000768	.0038694	.0850795	7.862585
#2	100.7752	.0007344	.0051963	.0003325	.0039714	.0845696	7.827140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**97.70340**	**.0080398**	**32.34016**	**.2193967**	**.0049797**	**549.1925**	**.0065293**
Stddev	.14813	.0003226	.06083	.0002185	.0002377	3.1936	.0001258
%RSD	.1516080	4.012822	.1880789	.0996073	4.773351	.5815161	1.926069
#1	97.80814	.0082680	32.38317	.2192422	.0051477	551.4507	.0064404
#2	97.59866	.0078117	32.29715	.2195512	.0048116	546.9342	.0066182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148288-a-1-a Acquired: 7/13/2018 12:30:56 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000733	-.006024	.0067513	2.180427	.0046239	.5304577	.0033967
Stddev	.002248	.000742	.0005590	.079797	.0005983	.0008075	.0000166
%RSD	306.8320	12.31228	8.279830	3.659704	12.94007	.1522206	.4898436
#1	.000857	-.005500	.0071465	2.236852	.0050470	.5310286	.0033849
#2	-.002322	-.006549	.0063560	2.124002	.0042008	.5298867	.0034084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001464	.0207747	.3016868
Stddev	.000507	.0000520	.0089258
%RSD	34.64671	.2502304	2.958632
#1	-.001823	.0208115	.3079983
#2	-.001105	.0207380	.2953753
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1816.220	1088.770	8413.538	4401.052
Stddev	42.063	28.886	2.281	17.878
%RSD	2.315966	2.653063	.0271158	.4062123
#1	1786.477	1068.345	8411.924	4388.411
#2	1845.963	1109.196	8415.151	4413.693

Sample Name: 500-148287-a-49-a Acquired: 7/13/2018 12:35:00 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001212	.0171906	-.000151	.0053165	-.000336	-.000353	-.002061
Stddev	.0001352	.0040131	.000916	.0001181	.000042	.000000	.000332
%RSD	111.6146	23.34485	605.3499	2.220833	12.53278	.0359969	16.10275
#1	.0000255	.0200283	.000496	.0052331	-.000365	-.000353	-.002296
#2	.0002168	.0143529	-.000799	.0054000	-.000306	-.000353	-.001827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0798925	.0001619	-.003056	-.000759	-.000849	.0009188	.0553433
Stddev	.0023738	.0000364	.003166	.000162	.000433	.0001836	.0345230
%RSD	2.971197	22.50667	103.5994	21.36752	50.96493	19.98681	62.37965
#1	.0815710	.0001362	-.005294	-.000873	-.001155	.0010486	.0797548
#2	.0782140	.0001877	-.000817	-.000644	-.000543	.0007889	.0309319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0293599	.0009950	-.001020	.0001770	.0001057	.1994123	-.000399
Stddev	.0004345	.0002088	.032413	.0002982	.0000942	.0107203	.000383
%RSD	1.479843	20.98165	3178.739	168.4883	89.10517	5.375939	96.15281
#1	.0296671	.0008474	-.023939	.0003878	.0001723	.2069926	-.000670
#2	.0290526	.0011426	.021900	-.000034	.0000391	.1918319	-.000128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-49-a Acquired: 7/13/2018 12:35:00 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000035	-.003924	.0009235	.0054539	-.000992	.0001300	-.000551
Stddev	.001339	.000247	.0012025	.0017494	.000538	.0000001	.000038
%RSD	3799.508	6.285818	130.2084	32.07546	54.26314	.1125455	6.910278
#1	-.000982	-.004099	.0000732	.0042169	-.000611	.0001301	-.000578
#2	.000912	-.003750	.0017738	.0066909	-.001372	.0001299	-.000524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000475	-.000041	.0033959
Stddev	.000154	.000080	.0001187
%RSD	32.35533	191.8735	3.496443
#1	-.000366	-.000098	.0034798
#2	-.000584	.000015	.0033119
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2247.611	1247.661	9415.510	4658.898
Stddev	.132	.673	7.842	2.533
%RSD	.0058771	.0539096	.0832875	.0543727
#1	2247.517	1247.185	9409.965	4660.689
#2	2247.704	1248.136	9421.055	4657.107

Sample Name: 500-148287-a-50-a Acquired: 7/13/2018 12:39:03 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002777**	**.0228924**	**.0014370**	**.0048213**	**-.000261**	**-.000088**
Stddev	.0004179	.0149612	.0023757	.0001001	.000006	.000175
%RSD	150.5046	65.35425	165.3211	2.075622	2.228898	199.3863
#1	.0005732	.0123133	.0031169	.0048920	-.000257	.000036
#2	-.000018	.0334716	-.000243	.0047505	-.000265	-.000211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003211**	**.1070397**	**.0001605**	F **-.012293**	**-.000504**	**.0000616**
Stddev	.000893	.0027481	.0001031	.003769	.000055	.0000040
%RSD	27.79425	2.567327	64.26983	30.65492	10.87813	6.503848
#1	-.002580	.1089829	.0000876	-.014958	-.000543	.0000645
#2	-.003842	.1050965	.0002334	-.009629	-.000465	.0000588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				10.00000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007380**	**.0126774**	**.0168007**	**.0006154**	**-.009760**	**.0000631**
Stddev	.0003404	.0000538	.0247138	.0000113	.017139	.0002957
%RSD	46.12425	.4244113	147.1002	1.839274	175.6056	468.6988
#1	.0004973	.0126394	.0342760	.0006234	-.021879	-.000146
#2	.0009787	.0127155	-.000675	.0006074	.002359	.000272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148287-a-50-a Acquired: 7/13/2018 12:39:03 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001488	.1144246	-.000199	-.000491	-.003648	.0002359
Stddev	.0003421	.0045653	.001681	.000035	.001310	.0009682
%RSD	229.9349	3.989767	846.6575	7.162547	35.91519	410.4852
#1	.0003907	.1176527	.000990	-.000466	-.004575	-.000449
#2	-.000093	.1111964	-.001388	-.000516	-.002722	.000920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0090805	-.000378	.0000766	.0001108	-.000710	-.000031
Stddev	.0025383	.000738	.0000135	.0003071	.000423	.000313
%RSD	27.95311	195.5535	17.62867	277.1401	59.59883	1010.336
#1	.0072857	-.000900	.0000671	.0003280	-.001010	-.000253
#2	.0108753	.000144	.0000862	-.000106	-.000411	.000191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0041041
Stddev	.0000836
%RSD	2.036569
#1	.0041632
#2	.0040450
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148287-a-50-a Acquired: 7/13/2018 12:39:03 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2238.535	1239.792	9392.049	4646.344
Stddev	.650	4.385	5.297	1.848
%RSD	.0290261	.3536730	.0563973	.0397803
#1	2238.076	1242.892	9395.795	4647.651
#2	2238.995	1236.691	9388.304	4645.037

Sample Name: CCV Acquired: 7/13/2018 12:43:07 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5075664**	**49.77949**	**.4986763**	**.4909331**	**.4764779**	**.4977854**
Stddev	.0017794	.02276	.0075080	.0028125	.0001109	.0008296
%RSD	.3505755	.0457251	1.505587	.5728819	.0232797	.1666666
#1	.5088246	49.76339	.4933674	.4889444	.4765564	.4971988
#2	.5063081	49.79558	.5039853	.4929218	.4763995	.4983721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5056468**	**25.66506**	**.4994159**	F **-.041033**	**.5045396**	**.4853520**
Stddev	.0014501	.01800	.0018211	.015638	.0027264	.0006154
%RSD	.2867785	.0701399	.3646559	38.11079	.5403749	.1267949
#1	.5046215	25.65233	.4981281	-.029975	.5026117	.4849168
#2	.5066722	25.67779	.5007036	-.052091	.5064675	.4857871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5089167**	**25.53228**	**48.45929**	**3.810531**	**24.72244**	**4.840932**
Stddev	.0000705	.03669	.02349	.001812	.06379	.000193
%RSD	.0138425	.1436898	.0484679	.0475542	.2580234	.0039779
#1	.5088668	25.55822	48.44268	3.811812	24.76755	4.841068
#2	.5089665	25.50634	48.47590	3.809250	24.67734	4.840796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 7/13/2018 12:43:07 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4712242	24.80724	.4986370	.5024538	.4676619	.5057238
Stddev	.0028398	.00528	.0039298	.0039372	.0044649	.0042189
%RSD	.6026356	.0212727	.7881135	.7835978	.9547227	.8342360
#1	.4692162	24.80351	.4958582	.4996698	.4645048	.5027406
#2	.4732322	24.81097	.5014158	.5052378	.4708190	.5087071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4446994	.5168921	.4976573	.4927371	.4904887	4.989086
Stddev	.0000130	.0007463	.0003329	.0005498	.0018773	.002410
%RSD	.0029315	.1443887	.0668964	.1115751	.3827302	.0483133
#1	.4446901	.5163644	.4978927	.4931258	.4891613	4.990791
#2	.4447086	.5174199	.4974219	.4923483	.4918161	4.987382
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5184349
Stddev	.0005769
%RSD	.1112789
#1	.5180269
#2	.5188428
Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 7/13/2018 12:43:07 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2040.187	1202.937	9056.930	4548.733
Stddev	6.644	3.974	9.709	2.032
%RSD	.3256553	.3303193	.1072034	.0446757
#1	2044.885	1205.747	9050.065	4550.170
#2	2035.489	1200.127	9063.796	4547.296

Sample Name: CCB Acquired: 7/13/2018 12:46:59 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000091**	**.0016826**	**-.000843**	**.0020676**	**-.000346**	**-.000291**	**-.001069**
Stddev	.000239	.0048139	.000105	.0001188	.000033	.000166	.001205
%RSD	261.8685	286.0993	12.50203	5.747706	9.655679	56.95772	112.7656
#1	-.000260	.0050865	-.000917	.0019836	-.000322	-.000174	-.001921
#2	.000078	-.001721	-.000768	.0021517	-.000370	-.000409	-.000217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006129**	**-.000021**	**-.000959**	**-.000356**	**-.000731**	**.0003543**	**.0277572**
Stddev	.000391	.000038	.007939	.000209	.000398	.0000030	.0618547
%RSD	6.384521	186.3148	827.5768	58.72891	54.44509	.8582031	222.8417
#1	-.005852	.000007	-.006573	-.000208	-.000449	.0003564	-.015981
#2	-.006406	-.000048	.004654	-.000504	-.001012	.0003521	.071495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005181**	**.0010425**	**.0004008**	**-.000043**	**-.000191**	**.0361437**	**.0006422**
Stddev	.009733	.0004719	.0202801	.000379	.000141	.0062552	.0004078
%RSD	187.8530	45.26526	5060.558	885.8519	73.99362	17.30632	63.49993
#1	.001701	.0007088	.0147410	.000225	-.000091	.0405668	.0009306
#2	-.012064	.0013761	-.013939	-.000311	-.000291	.0317207	.0003539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/13/2018 12:46:59 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000528	-.001892	.0008716	-.001129	.0008256	-.000066	-.000358
Stddev	.000694	.000587	.0014316	.002062	.0002466	.000005	.000166
%RSD	131.6013	31.00302	164.2536	182.6685	29.86967	7.131486	46.45948
#1	-.000037	-.002307	-.000141	-.002587	.0006513	-.000063	-.000476
#2	-.001019	-.001477	.001884	.000329	.0010000	-.000069	-.000240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0010587	.0003502	-.000464
Stddev	.0005012	.0000489	.000157
%RSD	47.33640	13.96641	33.73314
#1	.0014131	.0003848	-.000575
#2	.0007043	.0003156	-.000354
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2225.820	1234.050	9278.197	4593.607
Stddev	10.043	2.301	4.794	10.022
%RSD	.4511920	.1864252	.0516700	.2181773
#1	2232.921	1235.677	9281.587	4600.694
#2	2218.718	1232.423	9274.807	4586.520

Sample Name: 500-148287-a-55-a Acquired: 7/13/2018 12:51:04 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001194**	**.0393276**	**-.001931**	**.0037661**	**-.000220**	**-.000123**
Stddev	.0001438	.0033283	.002937	.0003166	.000122	.000077
%RSD	120.3701	8.463064	152.1130	8.405700	55.52850	63.13612
#1	.0002211	.0369742	-.004007	.0039900	-.000134	-.000068
#2	.0000178	.0416811	.000146	.0035423	-.000307	-.000177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002158**	**.0506477**	**.0002091**	F **-.005543**	**-.000617**	**-.000519**
Stddev	.000134	.0029008	.0000915	.006582	.000545	.000414
%RSD	6.188896	5.727329	43.73572	118.7577	88.35672	79.72049
#1	-.002064	.0485966	.0002738	-.000888	-.001003	-.000226
#2	-.002253	.0526989	.0001444	-.010197	-.000232	-.000811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				10.00000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008291**	**-.002705**	**.0152866**	**.0006069**	**-.001514**	**-.000564**
Stddev	.0000472	.000381	.0058662	.0003738	.000332	.000268
%RSD	5.696227	14.06945	38.37466	61.59321	21.94184	47.44516
#1	.0007957	-.002974	.0111386	.0008712	-.001749	-.000753
#2	.0008625	-.002436	.0194347	.0003426	-.001279	-.000375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148287-a-55-a Acquired: 7/13/2018 12:51:04 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005700	.0746850	-.001173	-.000320	-.000879	-.000059
Stddev	.0001441	.0003122	.000102	.001716	.002298	.000556
%RSD	25.28163	.4180931	8.661787	535.8682	261.5256	940.7121
#1	.0006719	.0749058	-.001244	-.001533	.000746	-.000452
#2	.0004681	.0744642	-.001101	.000893	-.002504	.000334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047509	-.001152	.0000257	-.000436	-.000101	.0002212
Stddev	.0034218	.001185	.0000019	.000064	.000494	.0001748
%RSD	72.02368	102.8637	7.286929	14.60660	489.6873	79.04822
#1	.0023313	-.000314	.0000270	-.000391	.000248	.0000975
#2	.0071705	-.001990	.0000243	-.000481	-.000450	.0003448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0063756
Stddev	.0000686
%RSD	1.076373
#1	.0064241
#2	.0063271
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148287-a-55-a Acquired: 7/13/2018 12:51:04 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2240.353	1240.526	9381.699	4663.933
Stddev	1.821	2.673	3.385	3.527
%RSD	.0812710	.2154971	.0360765	.0756290
#1	2241.640	1242.417	9384.092	4666.427
#2	2239.065	1238.636	9379.306	4661.439

Sample Name: 148287-a-55-aSD@5 Acquired: 7/13/2018 12:55:08 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000093**	**.0182711**	**-.000977**	**.0017966**	**-.000367**	**.0000241**	**-.000996**
Stddev	.000191	.0052155	.000074	.0000977	.000033	.0004230	.000435
%RSD	205.5992	28.54520	7.624009	5.438195	8.987118	1757.778	43.71665
#1	.000042	.0145832	-.000924	.0018657	-.000343	.0003231	-.000688
#2	-.000228	.0219591	-.001030	.0017275	-.000390	-.000275	-.001304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0079882**	**.0000438**	**-.004761**	**-.000541**	**-.000935**	**.0005454**	**-.012490**
Stddev	.0013919	.0001294	.001960	.000493	.000339	.0001842	.028354
%RSD	17.42457	295.4854	41.15995	91.19771	36.24991	33.76563	227.0216
#1	.0070039	-.000048	-.006147	-.000192	-.001175	.0006756	-.032539
#2	.0089724	.000135	-.003375	-.000889	-.000696	.0004152	.007560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003225**	**.0003926**	**-.016281**	**-.000247**	**-.000172**	**.0312296**	**.0009831**
Stddev	.017495	.0001473	.015607	.000220	.000068	.0001547	.0002822
%RSD	542.5653	37.50933	95.86315	88.87078	39.63839	.4953207	28.70652
#1	.009147	.0004968	-.027317	-.000403	-.000124	.0311202	.0007835
#2	-.015596	.0002885	-.005245	-.000092	-.000221	.0313390	.0011826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 148287-a-55-aSD@5 Acquired: 7/13/2018 12:55:08 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000400	-.002556	.0010904	.0002370	-.000342	-.000046	-.000489
Stddev	.000305	.000311	.0006607	.0002364	.000152	.000011	.000008
%RSD	76.34766	12.15824	60.59458	99.71347	44.40657	24.72520	1.551081
#1	-.000615	-.002775	.0006232	.0000699	-.000235	-.000054	-.000484
#2	-.000184	-.002336	.0015577	.0004041	-.000450	-.000038	-.000495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0007054	-.000202	.0017260
Stddev	.0005323	.000109	.0003322
%RSD	75.46780	53.79910	19.24555
#1	.0010818	-.000279	.0014911
#2	.0003290	-.000125	.0019609
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2222.889	1239.593	9266.713	4603.266
Stddev	3.899	1.739	10.294	27.232
%RSD	.1753826	.1403168	.1110907	.5915699
#1	2220.132	1238.364	9273.993	4622.521
#2	2225.645	1240.823	9259.434	4584.010

Sample Name: 500-148287-a-55-b du Acquired: 7/13/2018 12:59:09 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003411**	**.0161490**	**.0009225**	**.0026520**	**-.000380**	**-.000237**
Stddev	.0005815	.0184214	.0009584	.0000194	.000026	.000341
%RSD	170.4773	114.0719	103.8927	.7329818	6.769446	143.6215
#1	-.000070	.0291749	.0002448	.0026382	-.000398	.000004
#2	.000752	.0031231	.0016002	.0026657	-.000361	-.000478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001789**	**.0595593**	**.0001137**	F **-.005329**	**-.000490**	**-.000435**
Stddev	.001298	.0067332	.0000081	.000251	.000074	.000664
%RSD	72.54650	11.30494	7.093455	4.714045	15.19370	152.6427
#1	-.002707	.0547983	.0001080	-.005507	-.000437	-.000905
#2	-.000871	.0643204	.0001194	-.005152	-.000542	.000035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				10.00000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008420**	**.0016723**	**.0076795**	**.0004899**	**.0034087**	**-.000118**
Stddev	.0001478	.0284226	.0018416	.0004810	.0029247	.000006
%RSD	17.55510	1699.569	23.98047	98.19730	85.80050	5.081774
#1	.0009465	-.018426	.0063773	.0001497	.0054768	-.000114
#2	.0007375	.021770	.0089817	.0008300	.0013407	-.000122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148287-a-55-b du Acquired: 7/13/2018 12:59:09 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004861	.0549467	-.000396	.0005402	-.001163	.0015698
Stddev	.0000274	.0048795	.000091	.0010940	.002486	.0011283
%RSD	5.625646	8.880514	22.95258	202.5254	213.7829	71.87535
#1	.0004668	.0514963	-.000461	.0013138	-.002921	.0023677
#2	.0005054	.0583970	-.000332	-.000233	.000595	.0007720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040484	-.001648	.0000072	-.000613	-.000940	.0003316
Stddev	.0018226	.000465	.0000093	.000090	.000573	.0002580
%RSD	45.02005	28.21540	129.9154	14.64354	60.93631	77.80147
#1	.0027597	-.001319	.0000006	-.000550	-.001345	.0005141
#2	.0053372	-.001977	.0000138	-.000677	-.000535	.0001492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0034610
Stddev	.0000341
%RSD	.9856263
#1	.0034851
#2	.0034369
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148287-a-55-b du Acquired: 7/13/2018 12:59:09 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2233.337	1235.240	9359.793	4844.440
Stddev	12.242	7.883	8.114	262.809
%RSD	.5481442	.6381595	.0866855	5.424953
#1	2241.994	1240.814	9365.530	5030.274
#2	2224.681	1229.666	9354.056	4658.606

Sample Name: 500-148287-a-55-c ms Acquired: 7/13/2018 13:03:10 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0469470**	**1.916685**	**.0938947**	**.8608167**	**1.826155**	**.0467586**
Stddev	.0009214	.004908	.0000839	.0035870	.000048	.0001135
%RSD	1.962527	.2560860	.0893974	.4166913	.0026455	.2426705
#1	.0475985	1.913214	.0938354	.8582803	1.826189	.0466784
#2	.0462955	1.920155	.0939541	.8633530	1.826121	.0468389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4551335**	**9.798070**	**.0466943**	F **-.009028**	**.4655394**	**.1844609**
Stddev	.0010842	.003612	.0002736	.004364	.0001463	.0020091
%RSD	.2382106	.0368686	.5859324	48.33305	.0314249	1.089157
#1	.4559001	9.800624	.0465008	-.012114	.4654360	.1858815
#2	.4543669	9.795516	.0468877	-.005943	.4656429	.1830402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				10.00000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2352476**	**.9760148**	**9.212939**	**.4583035**	**9.266739**	**.4693760**
Stddev	.0012825	.0166943	.001496	.0006266	.031144	.0000878
%RSD	.5451490	1.710459	.0162364	.1367235	.3360793	.0187017
#1	.2343408	.9642102	9.211881	.4587466	9.244717	.4693140
#2	.2361544	.9878195	9.213996	.4578604	9.288761	.4694381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148287-a-55-c ms Acquired: 7/13/2018 13:03:10 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9134450**	**9.543070**	**.4635478**	**.0931679**	**.4532446**	**.0864028**
Stddev	.0007362	.004171	.0014058	.0006035	.0009100	.0005060
%RSD	.0805991	.0437029	.3032671	.6477934	.2007701	.5856245
#1	.9129244	9.540121	.4625537	.0927411	.4526012	.0867606
#2	.9139656	9.546019	.4645418	.0935946	.4538881	.0860450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.354261**	**.9405957**	**.9376393**	**.9418095**	**.0920708**	**.4795813**
Stddev	.022041	.0033879	.0005186	.0000414	.0001536	.0012891
%RSD	.5061984	.3601847	.0553137	.0043980	.1668699	.2687940
#1	4.338675	.9429913	.9380060	.9418388	.0919622	.4786698
#2	4.369846	.9382001	.9372726	.9417802	.0921795	.4804928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	**.4783504**
Stddev	.0001951
%RSD	.0407837
#1	.4782124
#2	.4784883
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148287-a-55-c ms Acquired: 7/13/2018 13:03:10 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2171.829	1215.784	9260.166	4651.093
Stddev	2.756	3.502	17.698	2.324
%RSD	.1269034	.2880674	.1911166	.0499704
#1	2173.778	1218.261	9272.680	4652.736
#2	2169.880	1213.308	9247.651	4649.449

Sample Name: mb 500-440702/1-a Acquired: 7/13/2018 13:09:07 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002819	.0132987	.0000057	.0022769	-.000387	-.000111	-.002237
Stddev	.0003763	.0180606	.0009298	.0002584	.000061	.000185	.000743
%RSD	133.4693	135.8068	16303.07	11.35030	15.79275	166.0091	33.22151
#1	.0000158	.0005280	.0006632	.0020942	-.000344	.000019	-.001712
#2	.0005480	.0260695	-.000652	.0024596	-.000430	-.000242	-.002763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0264674	.0000990	-.001208	-.000451	-.000736	.0016890	-.000636
Stddev	.0016927	.0002091	.001658	.000040	.000360	.0000347	.015744
%RSD	6.395569	211.2148	137.2619	8.818248	48.86067	2.056442	2477.205
#1	.0276644	.0002468	-.000036	-.000479	-.000482	.0016644	.010497
#2	.0252705	-.000049	-.002380	-.000423	-.000991	.0017136	-.011769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045795	.0006919	.0086847	-.000323	.0003661	.0465243	-.000049
Stddev	.0134989	.0000647	.0166158	.000174	.0000803	.0015457	.001469
%RSD	294.7686	9.345330	191.3228	54.00843	21.93106	3.322324	3015.175
#1	-.004966	.0007376	.0204338	-.000446	.0003094	.0454314	.000990
#2	.014125	.0006462	-.003064	-.000200	.0004229	.0476173	-.001087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-440702/1-a Acquired: 7/13/2018 13:09:07 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000880**	**-.003530**	**.0015138**	**-.000194**	**-.000600**	**-.000017**	**-.000377**
Stddev	.001125	.000283	.0000376	.001127	.000252	.000004	.000063
%RSD	127.8067	8.016327	2.480954	581.3957	42.11519	22.44406	16.79690
#1	-.001676	-.003730	.0014873	-.000991	-.000421	-.000019	-.000422
#2	-.000085	-.003330	.0015404	.000603	-.000778	-.000014	-.000333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	**-.000170**	**-.000201**	**.0030424**
Stddev	.000490	.000293	.0000002
%RSD	289.0304	145.5427	.0051252
#1	-.000517	-.000409	.0030425
#2	.000177	.000006	.0030422
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2235.392**	**1239.712**	**9375.637**	**4677.143**
Stddev	12.121	5.355	14.571	7.644
%RSD	.5422102	.4319687	.1554088	.1634263
#1	2243.963	1243.498	9385.940	4682.548
#2	2226.822	1235.925	9365.334	4671.738

Sample Name: lcs 500-440702/2-a Acquired: 7/13/2018 13:13:09 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0488535**	**1.922757**	**.0976995**	**.8963566**	**1.870702**	**.0487480**
Stddev	.0006699	.000182	.0019516	.0023537	.003624	.0004033
%RSD	1.371225	.0094590	1.997509	.2625882	.1937240	.8272685
#1	.0483798	1.922629	.0990795	.8946923	1.873265	.0484629
#2	.0493271	1.922886	.0963196	.8980210	1.868140	.0490332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4719895**	**9.951480**	**.0480198**	F **-.008354**	**.4769555**	**.1902366**
Stddev	.0005369	.059343	.0000005	.002807	.0010654	.0002800
%RSD	.1137587	.5963264	.0009858	33.60342	.2233638	.1471724
#1	.4723691	9.993442	.0480201	-.006369	.4762022	.1900386
#2	.4716098	9.909518	.0480195	-.010339	.4777088	.1904346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				10.00000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2410114**	**.9960311**	**9.425619**	**.4693278**	**9.509470**	**.4823130**
Stddev	.0024384	.0428364	.006244	.0004232	.024945	.0004741
%RSD	1.011755	4.300704	.0662409	.0901668	.2623226	.0983034
#1	.2392871	1.026321	9.430034	.4690286	9.527109	.4826482
#2	.2427356	.965741	9.421205	.4696271	9.491831	.4819777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lcs 500-440702/2-a Acquired: 7/13/2018 13:13:09 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9344344	9.708747	.4750934	.0938340	.4677320	.0903427
Stddev	.0031766	.030329	.0023709	.0017695	.0010933	.0034865
%RSD	.3399441	.3123869	.4990450	1.885722	.2337460	3.859155
#1	.9321883	9.730192	.4734169	.0950852	.4669590	.0878774
#2	.9366806	9.687301	.4767699	.0925828	.4685051	.0928080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.520120	.9678571	.9552513	.9651077	.0951111	.4930791
Stddev	.014767	.0034189	.0025735	.0009809	.0006287	.0003819
%RSD	.3266843	.3532458	.2694072	.1016381	.6610742	.0774597
#1	4.509678	.9654395	.9534315	.9644141	.0955557	.4928090
#2	4.530561	.9702746	.9570710	.9658013	.0946665	.4933492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.4824371
Stddev	.0016222
%RSD	.3362558
#1	.4812900
#2	.4835842
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: lcs 500-440702/2-a Acquired: 7/13/2018 13:13:09 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2172.175	1216.302	9253.103	4647.760
Stddev	9.236	4.616	13.810	15.586
%RSD	.4251902	.3795234	.1492496	.3353475
#1	2178.706	1219.566	9262.868	4636.739
#2	2165.644	1213.038	9243.337	4658.781

Sample Name: 500-148293-c-1-a Acquired: 7/13/2018 13:17:07 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000049**	**.4936945**	**.0017608**	**.2716854**	**.0490378**	**-.000173**	**.0009897**
Stddev	.000491	.0021258	.0006872	.0181720	.0000021	.000093	.0004485
%RSD	991.5695	.4305963	39.02571	6.688628	.0042290	54.10255	45.31316
#1	.000297	.4951976	.0022468	.2845349	.0490393	-.000107	.0013068
#2	-.000396	.4921913	.0012749	.2588358	.0490363	-.000239	.0006726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**125.8495**	**.0006881**	**.0040771**	**.0003094**	**-.000086**	**.0203658**	**.7238211**
Stddev	.3229	.0000291	.0002009	.0004695	.000250	.0002741	.0217587
%RSD	.2566143	4.231339	4.926526	151.7357	289.4217	1.345857	3.006092
#1	125.6211	.0007087	.0042192	-.000023	-.000263	.0205596	.7084353
#2	126.0779	.0006676	.0039351	.000641	.000090	.0201720	.7392068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.12489**	**.0224232**	**54.33362**	**.1441779**	**.0090454**	**338.3628**	**.0053839**
Stddev	.00478	.0002355	.05792	.0000139	.0004887	4.8763	.0006411
%RSD	.0472593	1.050330	.1065975	.0096244	5.402289	1.441145	11.90684
#1	10.12827	.0222566	54.29266	.1441877	.0093910	334.9147	.0058372
#2	10.12151	.0225897	54.37457	.1441681	.0086999	341.8109	.0049306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148293-c-1-a Acquired: 7/13/2018 13:17:07 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007799	-.003068	.0017313	5.842943	.0022099	.6765157	.0139983
Stddev	.0017592	.000478	.0004894	.394493	.0007680	.0009505	.0008517
%RSD	225.5659	15.57960	28.26804	6.751618	34.75147	.1404979	6.084006
#1	.0020239	-.003407	.0020773	6.121892	.0027529	.6758436	.0146005
#2	-.000464	-.002730	.0013852	5.563994	.0016669	.6771878	.0133961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0011154	.0015641	.0281783
Stddev	.0002628	.0003139	.0013423
%RSD	23.56119	20.06629	4.763533
#1	.0013012	.0017860	.0291275
#2	.0009295	.0013421	.0272292
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1916.231	1151.088	8620.008	4455.008
Stddev	86.441	54.894	22.143	5.313
%RSD	4.510983	4.768905	.2568777	.1192676
#1	1855.108	1112.272	8635.666	4458.765
#2	1977.354	1189.904	8604.351	4451.251

Sample Name: 500-148293-c-1-aSD@5 Acquired: 7/13/2018 13:21:13 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001639	.0869526	.0015813	.0597984	.0096700	-.000018	.0008576
Stddev	.0009195	.0200287	.0023185	.0005596	.0000387	.000338	.0000827
%RSD	560.9659	23.03400	146.6210	.9358118	.4004861	1856.924	9.640810
#1	.0008141	.1011150	-.000058	.0601941	.0096974	-.000257	.0007991
#2	-.000486	.0727902	.003221	.0594027	.0096426	.000221	.0009160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.71943	.0005119	-.002540	-.000279	-.000731	.0040964	.1415540
Stddev	.04441	.0000031	.002506	.000232	.000190	.0002389	.0400775
%RSD	.1726573	.5964644	98.66532	83.28078	25.99588	5.830771	28.31249
#1	25.68803	.0005097	-.000768	-.000443	-.000866	.0042653	.1698931
#2	25.75083	.0005140	-.004313	-.000115	-.000597	.0039275	.1132150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.987853	.0050902	10.82888	.0295695	.0020234	67.99115	.0035121
Stddev	.014784	.0002040	.02253	.0001464	.0003613	.08675	.0011934
%RSD	.7437175	4.008363	.2080262	.4951002	17.85687	.1275970	33.97926
#1	1.998307	.0049459	10.81295	.0294660	.0017679	68.05249	.0043560
#2	1.977400	.0052345	10.84481	.0296730	.0022789	67.92980	.0026683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148293-c-1-aSD@5 Acquired: 7/13/2018 13:21:13 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000549	-.003454	.0002815	1.210689	.0000685	.1371307	.0029682
Stddev	.000148	.000614	.0014262	.003624	.0002298	.0000854	.0002645
%RSD	27.00033	17.77278	506.5691	.2993282	335.4496	.0622671	8.909458
#1	-.000654	-.003020	-.000727	1.213252	-.000094	.1371911	.0031552
#2	-.000444	-.003888	.001290	1.208127	.000231	.1370703	.0027812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0001319	-.000263	.0062593
Stddev	.0011717	.000236	.0001854
%RSD	888.4326	89.91637	2.962515
#1	-.000697	-.000096	.0063904
#2	.000960	-.000430	.0061282
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2084.731	1185.179	9010.337	4523.480
Stddev	.600	.362	18.844	4.893
%RSD	.0287701	.0305447	.2091392	.1081625
#1	2085.155	1184.923	9023.662	4520.020
#2	2084.307	1185.435	8997.012	4526.940

Sample Name: 500-148293-c-1-b du Acquired: 7/13/2018 13:25:14 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002181**	**.4539640**	**.0027634**	**.2743570**	**.0499034**	**-.000151**	**-.001991**
Stddev	.0001982	.0026701	.0016946	.0181966	.0000881	.000233	.000044
%RSD	90.90521	.5881781	61.32412	6.632447	.1765166	153.7921	2.201727
#1	.0000779	.4520759	.0015651	.2872239	.0498411	-.000316	-.001960
#2	.0003583	.4558520	.0039617	.2614900	.0499657	.000013	-.002022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**130.0586**	**.0006952**	**.0026880**	**.0006767**	**-.000482**	**.0198877**	**.7681974**
Stddev	.3429	.0001797	.0079904	.0004086	.000146	.0001516	.0401898
%RSD	.2636777	25.84703	297.2679	60.38678	30.31282	.7622668	5.231696
#1	129.8161	.0008222	.0083380	.0003877	-.000378	.0199949	.7966158
#2	130.3011	.0005681	-.002962	.0009656	-.000585	.0197805	.7397789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.36132**	**.0232657**	**56.14746**	**.1476178**	**.0085811**	**346.5640**	**.0054504**
Stddev	.02523	.0003571	.23014	.0009167	.0008365	1.8014	.0008037
%RSD	.2435328	1.535040	.4098809	.6210242	9.747925	.5197957	14.74495
#1	10.34348	.0230131	55.98473	.1469696	.0091726	345.2902	.0060186
#2	10.37917	.0235182	56.31019	.1482661	.0079896	347.8378	.0048821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148293-c-1-b du Acquired: 7/13/2018 13:25:14 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000503	-.002875	.0011096	5.866769	.0015555	.6893399	.0115849
Stddev	.000271	.000736	.0001588	.403496	.0000176	.0006430	.0003028
%RSD	53.82097	25.59877	14.30872	6.877655	1.134900	.0932824	2.613394
#1	-.000694	-.002354	.0012219	6.152084	.0015680	.6897946	.0117990
#2	-.000311	-.003395	.0009974	5.581454	.0015431	.6888852	.0113709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0015977	.0009341	.0237483
Stddev	.0005722	.0002418	.0007179
%RSD	35.81439	25.88712	3.023038
#1	.0020023	.0011051	.0242559
#2	.0011931	.0007631	.0232406
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1911.282	1156.062	8641.102	4407.059
Stddev	81.868	56.847	4.956	17.665
%RSD	4.283411	4.917287	.0573482	.4008292
#1	1853.393	1115.865	8637.598	4419.550
#2	1969.171	1196.259	8644.606	4394.568

Sample Name: 500-148293-c-1-c ms Acquired: 7/13/2018 13:29:19 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0518259	2.622977	.0936457	1.084025	1.917722	.0492969	.4636223
Stddev	.0001846	.010727	.0106575	.160453	.003611	.0001663	.0613090
%RSD	.3561909	.4089799	11.38062	14.80156	.1882936	.3374236	13.22391
#1	.0516954	2.630563	.1011816	1.197482	1.915169	.0491793	.5069743
#2	.0519564	2.615392	.0861097	.970568	1.920276	.0494145	.4202703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	135.8724	.0457256	-.000973	.4547960	.1840887	.2790460	1.655970
Stddev	.8887	.0066269	.002300	.0609438	.0007285	.0005974	.080445
%RSD	.6541052	14.49267	236.4763	13.40026	.3957478	.2140975	4.857851
#1	136.5009	.0504115	.000654	.4978898	.1846039	.2786236	1.599087
#2	135.2440	.0410397	-.002599	.4117022	.1835736	.2794684	1.712853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.00289	.5038194	64.30452	.6176821	.8469186	345.5748	.4483910
Stddev	.00796	.0021366	.06596	.0045317	.1221438	2.0636	.0611044
%RSD	.0398161	.4240884	.1025744	.7336554	14.42215	.5971363	13.62747
#1	20.00852	.5023085	64.35116	.6208865	.9332873	347.0339	.4915983
#2	19.99726	.5053302	64.25788	.6144778	.7605498	344.1156	.4051837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148293-c-1-c ms Acquired: 7/13/2018 13:29:19 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0906986	.4274325	.0843269	9.692639	.9351679	1.597007	.9748606
Stddev	.0101241	.0633168	.0127261	1.402543	.1240005	.000600	.0022625
%RSD	11.16235	14.81329	15.09136	14.47018	13.25971	.0375911	.2320832
#1	.0978574	.4722043	.0933256	10.68439	1.022850	1.596583	.9732608
#2	.0835398	.3826607	.0753282	8.70089	.847486	1.597432	.9764604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0852675	.4863394	.4812935
Stddev	.0103302	.0019923	.0637544
%RSD	12.11510	.4096634	13.24646
#1	.0925721	.4877482	.5263746
#2	.0779630	.4849306	.4362123
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1979.388	1209.353	8661.609	4420.899
Stddev	193.906	128.385	23.731	23.227
%RSD	9.796270	10.61598	.2739743	.5253878
#1	1842.275	1118.571	8678.389	4404.475
#2	2116.500	1300.135	8644.829	4437.323

Sample Name: CCVTEST Acquired: 7/13/2018 13:33:24 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5042853**	**49.84990**	**.4977977**	**.4894234**	**.4799783**	**.5003327**
Stddev	.0008419	.07621	.0045675	.0010612	.0018883	.0034802
%RSD	.1669501	.1528734	.9175389	.2168268	.3934213	.6955706
#1	.5048806	49.79602	.4945680	.4886730	.4786430	.4978718
#2	.5036900	49.90379	.5010274	.4901738	.4813135	.5027935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5055805**	**25.67757**	**.4961612**	F **-.042621**	**.5043612**	**.4846797**
Stddev	.0014521	.11552	.0003475	.001325	.0011147	.0000314
%RSD	.2872149	.4498858	.0700274	3.107723	.2210082	.0064818
#1	.5045537	25.59588	.4959155	-.043557	.5035730	.4846575
#2	.5066073	25.75925	.4964068	-.041684	.5051494	.4847019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5083811**	**25.56311**	**48.67031**	**3.843287**	**24.67984**	**4.851846**
Stddev	.0013498	.19262	.13452	.009193	.08179	.021892
%RSD	.2655006	.7534906	.2763853	.2392051	.3314098	.4512129
#1	.5074266	25.42692	48.57519	3.836787	24.62200	4.836366
#2	.5093355	25.69931	48.76542	3.849788	24.73767	4.867327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVTEST Acquired: 7/13/2018 13:33:24 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4709919**	**24.91970**	**.4993713**	**.5007923**	**.4731338**	**.5026484**
Stddev	.0000525	.02198	.0002335	.0014646	.0012725	.0047270
%RSD	.0111444	.0882015	.0467592	.2924645	.2689572	.9404101
#1	.4709548	24.90416	.4995364	.4997566	.4722340	.4993059
#2	.4710291	24.93524	.4992062	.5018279	.4740336	.5059908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4968944**	**.5178464**	**.4996675**	**.4972068**	**.4911870**	**4.964431**
Stddev	.0030157	.0001672	.0004806	.0003398	.0009798	.004186
%RSD	.6069056	.0322875	.0961822	.0683472	.1994741	.0843224
#1	.4990268	.5177282	.4993277	.4969665	.4904942	4.961471
#2	.4947620	.5179646	.5000074	.4974471	.4918798	4.967391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	**.5191519**
Stddev	.0014636
%RSD	.2819268
#1	.5181170
#2	.5201868
Check ?	Chk Pass
Value	
Range	

Sample Name: CCVTEST Acquired: 7/13/2018 13:33:24 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2033.860	1202.417	9067.269	4537.934
Stddev	4.973	1.174	5.750	10.287
%RSD	.2445184	.0976244	.0634150	.2266964
#1	2037.377	1203.247	9071.334	4545.209
#2	2030.344	1201.587	9063.203	4530.660

Sample Name: CCV Acquired: 7/13/2018 13:37:14 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5012810**	**50.12734**	**.4972674**	**.4919348**	**.4809720**	**.5004378**
Stddev	.0000502	.01330	.0031102	.0040416	.0002961	.0023250
%RSD	.0100213	.0265350	.6254621	.8215737	.0615655	.4645850
#1	.5013165	50.11793	.4950681	.4890769	.4807626	.4987938
#2	.5012454	50.13675	.4994667	.4947926	.4811814	.5020817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5064578**	**25.81770**	**.4959254**	F **-.049923**	**.5058599**	**.4867721**
Stddev	.0031224	.03716	.0032719	.005421	.0010409	.0000056
%RSD	.6165144	.1439165	.6597544	10.85879	.2057616	.0011426
#1	.5042499	25.84398	.4936118	-.046090	.5051239	.4867681
#2	.5086656	25.79143	.4982390	-.053757	.5065959	.4867760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5095948**	**25.55303**	**48.85374**	**3.852589**	**24.82501**	**4.866243**
Stddev	.0016102	.08770	.00574	.007081	.02422	.000049
%RSD	.3159815	.3432187	.0117415	.1837907	.0975491	.0010017
#1	.5084562	25.61504	48.85779	3.847582	24.80789	4.866278
#2	.5107334	25.49101	48.84968	3.857595	24.84214	4.866209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 7/13/2018 13:37:14 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4684888	24.88080	.5007372	.5012758	.4644630	.5037502
Stddev	.0021310	.00325	.0011795	.0005234	.0058522	.0002662
%RSD	.4548765	.0130606	.2355498	.1044239	1.259994	.0528524
#1	.4669819	24.88310	.5015712	.5016459	.4603248	.5035619
#2	.4699957	24.87850	.4999032	.5009056	.4686011	.5039384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4393737	.5158719	.4993662	.4955765	.4943349	4.944380
Stddev	.0055688	.0010567	.0008514	.0015491	.0021962	.007636
%RSD	1.267448	.2048434	.1704914	.3125811	.4442798	.1544333
#1	.4354359	.5151246	.4987642	.4966719	.4927819	4.938981
#2	.4433114	.5166191	.4999682	.4944812	.4958878	4.949780
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5206362
Stddev	.0000708
%RSD	.0136013
#1	.5206863
#2	.5205861
Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 7/13/2018 13:37:14 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2035.630	1205.268	9113.744	4546.060
Stddev	6.983	6.388	1.257	13.212
%RSD	.3430454	.5299769	.0137912	.2906252
#1	2040.568	1209.785	9114.633	4536.718
#2	2030.692	1200.751	9112.856	4555.403

Sample Name: CCB Acquired: 7/13/2018 13:41:06 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002547**	**-.007572**	**-.000828**	**.0030601**	**-.000440**	**.0000861**
Stddev	.0001947	.002812	.002998	.0004284	.000033	.0002194
%RSD	76.44574	37.13156	362.3008	13.99861	7.584250	254.9399
#1	.0001170	-.009561	-.002948	.0033630	-.000464	.0002412
#2	.0003923	-.005584	.001292	.0027572	-.000416	-.000069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007055**	**-.006152**	**.0001524**	F **-.010588**	**-.000095**	**-.000686**
Stddev	.0004872	.001125	.0000520	.007989	.000146	.000586
%RSD	69.04823	18.28653	34.09112	75.45636	153.5598	85.44640
#1	.0010500	-.005357	.0001891	-.016237	.000008	-.000271
#2	.0003611	-.006948	.0001157	-.004939	-.000198	-.001100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005005**	**.0256316**	**.0111739**	**.0012338**	**-.009454**	**-.000244**
Stddev	.0001870	.0432684	.0052433	.0001348	.010583	.000004
%RSD	37.35616	168.8088	46.92466	10.92520	111.9415	1.683241
#1	.0003683	.0562270	.0148814	.0013291	-.016938	-.000241
#2	.0006328	-.004964	.0074663	.0011385	-.001971	-.000247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 7/13/2018 13:41:06 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001066	.0202040	.0001109	-.000532	-.000953	-.000056
Stddev	.0000073	.0008083	.0010818	.001179	.000933	.002104
%RSD	6.811956	4.000860	975.7883	221.4003	97.96893	3767.403
#1	.0001117	.0207756	.0008758	.000301	-.000293	.001432
#2	.0001014	.0196324	-.000654	-.001366	-.001613	-.001544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002114	-.000850	-.000053	-.000156	.0012021	.0002705
Stddev	.000211	.001262	.000005	.000080	.0002152	.0001317
%RSD	9.962642	148.4877	9.139312	50.91966	17.90554	48.66206
#1	-.002263	.000042	-.000050	-.000213	.0010499	.0001775
#2	-.001965	-.001743	-.000057	-.000100	.0013543	.0003636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0000841
Stddev	.0002852
%RSD	339.0777
#1	.0002858
#2	-.000118
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 7/13/2018 13:41:06 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2232.961	1237.811	9304.076	4590.576
Stddev	1.557	3.652	2.055	.037
%RSD	.0697087	.2950550	.0220895	.0008021
#1	2231.861	1235.228	9305.529	4590.550
#2	2234.062	1240.393	9302.623	4590.602

Sample Name: CCVL Acquired: 7/13/2018 13:45:11 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0044151**	**.1922547**	**.0096693**	**.0514699**	**.0094099**	**.0037709**
Stddev	.0003837	.0150834	.0003342	.0003185	.0001034	.0003441
%RSD	8.690663	7.845511	3.456307	.6187796	1.099058	9.125483
#1	.0046864	.1815892	.0094330	.0512447	.0093368	.0035275
#2	.0041438	.2029203	.0099056	.0516951	.0094831	.0040142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0493697**	**.2027829**	**.0018508**	F **-.014496**	**.0046043**	**.0089248**
Stddev	.0000184	.0031179	.0001744	.004271	.0000368	.0005561
%RSD	.0373119	1.537562	9.420868	29.46278	.7998476	6.231383
#1	.0493567	.2049876	.0017275	-.011476	.0046304	.0093180
#2	.0493828	.2005782	.0019741	-.017516	.0045783	.0085315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0106016**	**.1916273**	**.4931405**	**.0109190**	**.1145480**	**.0093806**
Stddev	.0000968	.0156636	.0085240	.0004061	.0173494	.0002150
%RSD	.9129999	8.174013	1.728521	3.719166	15.14597	2.292003
#1	.0105332	.1805515	.4871131	.0106319	.1022802	.0095326
#2	.0106701	.2027032	.4991679	.0112062	.1268159	.0092286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 7/13/2018 13:45:11 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097420	1.014534	.0105237	F .0034199	.0153895	.0100684
Stddev	.0001536	.000434	.0003538	.0006899	.0031905	.0017020
%RSD	1.576890	.0427856	3.361858	20.17215	20.73186	16.90420
#1	.0096334	1.014227	.0102735	.0029321	.0131335	.0088649
#2	.0098507	1.014841	.0107739	.0039077	.0176456	.0112719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1814250	.0407810	.0050370	.0045053	.0116529	.0053190
Stddev	.0027671	.0006780	.0000071	.0000756	.0004759	.0005050
%RSD	1.525225	1.662551	.1409762	1.679148	4.083865	9.494154
#1	.1794684	.0403016	.0050320	.0044518	.0113164	.0049619
#2	.1833817	.0412605	.0050421	.0045588	.0119894	.0056761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0202901
Stddev	.0003889
%RSD	1.916523
#1	.0200151
#2	.0205651
Check ?	Chk Pass
Value	
Range	

Sample Name: CCVL Acquired: 7/13/2018 13:45:11 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2213.576	1224.860	9287.298	4607.379
Stddev	6.944	3.866	10.546	4.890
%RSD	.3136944	.3156629	.1135511	.1061254
#1	2218.486	1227.594	9294.756	4610.837
#2	2208.666	1222.126	9279.841	4603.922

Sample Name: 500-148293-c-2-a Acquired: 7/13/2018 13:49:15 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000351**	**.0328170**	**.0024819**	**.3212423**	**.0521649**	**-.000210**	**-.001371**
Stddev	.000238	.0122633	.0016001	.0202263	.0001159	.000429	.000250
%RSD	67.71453	37.36877	64.46847	6.296286	.2222121	204.2969	18.19705
#1	-.000183	.0414885	.0036133	.3355445	.0522469	-.000513	-.001548
#2	-.000519	.0241455	.0013505	.3069401	.0520830	.000093	-.001195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**139.8442**	**.0007252**	**.0011488**	**-.000023**	**-.000038**	**.0143835**	**.2024463**
Stddev	.1709	.0001349	.0019053	.000064	.000105	.0002793	.0258332
%RSD	.1222410	18.60183	165.8491	275.1339	276.6008	1.941610	12.76054
#1	139.9650	.0008207	.0024961	-.000068	.000036	.0145810	.2207132
#2	139.7233	.0006299	-.000198	.000022	-.000112	.0141860	.1841794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.52155**	**.0267080**	**60.73598**	**.0689348**	**.0091447**	**396.9997**	**.0050405**
Stddev	.00233	.0000273	.09458	.0006855	.0003785	2.2173	.0019401
%RSD	.0202039	.1021466	.1557293	.9943823	4.138426	.5585044	38.49030
#1	11.52319	.0266887	60.66910	.0684501	.0094123	398.5675	.0064123
#2	11.51990	.0267273	60.80286	.0694195	.0088771	395.4318	.0036686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148293-c-2-a Acquired: 7/13/2018 13:49:15 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001801	-.004188	-.000620	5.163740	.0000221	.7760975	.0003805
Stddev	.000397	.000428	.003294	.331699	.0001291	.0024770	.0002480
%RSD	22.04650	10.21722	531.1585	6.423613	585.0144	.3191646	65.18800
#1	-.001520	-.003886	.001709	5.398286	.0001133	.7743459	.0002051
#2	-.002081	-.004491	-.002949	4.929193	-.000069	.7778490	.0005559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0012148	.0006666	.0237012
Stddev	.0002824	.0005929	.0010339
%RSD	23.24721	88.93798	4.362396
#1	.0014145	.0010858	.0244323
#2	.0010151	.0002474	.0229701
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1867.002	1126.295	8557.389	4406.431
Stddev	77.878	53.280	29.715	5.203
%RSD	4.171307	4.730522	.3472396	.1180674
#1	1811.934	1088.620	8578.400	4402.752
#2	1922.070	1163.969	8536.377	4410.109

Sample Name: 500-148293-c-3-a Acquired: 7/13/2018 13:53:21 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000122**	**.1178795**	**.0035714**	**.1977230**	**.0481599**	**-.000036**	**-.001914**
Stddev	.000093	.0126648	.0006598	.0266644	.0000280	.000012	.001234
%RSD	76.00844	10.74384	18.47562	13.48575	.0580683	33.08104	64.50917
#1	-.000188	.1268349	.0040379	.2165776	.0481797	-.000028	-.002786
#2	-.000056	.1089242	.0031048	.1788684	.0481401	-.000045	-.001041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**87.85792**	**.0003872**	**.0047138**	**-.000277**	**-.001325**	**.0069114**	**.2174046**
Stddev	.40258	.0000437	.0052324	.000057	.000534	.0000654	.0204844
%RSD	.4582146	11.28784	111.0034	20.48277	40.31930	.9460652	9.422261
#1	87.57326	.0003563	.0084137	-.000317	-.000947	.0068652	.2318893
#2	88.14259	.0004182	.0010139	-.000237	-.001703	.0069576	.2029199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.878200**	**.0146316**	**38.16504**	**.0580066**	**.0067050**	**187.0234**	**.0039026**
Stddev	.011893	.0002411	.08729	.0001421	.0011844	.0802	.0010833
%RSD	.1509613	1.647630	.2287190	.2449023	17.66415	.0428715	27.75844
#1	7.886609	.0148021	38.10332	.0581071	.0075424	187.0801	.0046686
#2	7.869790	.0144611	38.22677	.0579062	.0058675	186.9667	.0031366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148293-c-3-a Acquired: 7/13/2018 13:53:21 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000610	-.002477	-.001244	3.205127	-.000066	.3634750	.0025996
Stddev	.001250	.000814	.000344	.423060	.000183	.0002508	.0000817
%RSD	204.9094	32.86681	27.64548	13.19948	276.4881	.0689905	3.141256
#1	-.001494	-.001901	-.001001	3.504276	-.000195	.3636523	.0025418
#2	.000274	-.003052	-.001487	2.905978	.000063	.3632977	.0026573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0021450	.0013936	.0126950
Stddev	.0021927	.0000972	.0017243
%RSD	102.2205	6.975422	13.58279
#1	.0036954	.0013249	.0139143
#2	.0005946	.0014623	.0114757
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2048.611	1206.195	8816.646	4466.867
Stddev	177.170	117.124	.315	11.818
%RSD	8.648314	9.710196	.0035685	.2645787
#1	1923.333	1123.376	8816.869	4475.224
#2	2173.889	1289.014	8816.424	4458.510

Sample Name: mb 500-440515/1-a Acquired: 7/13/2018 13:59:25 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003803	.0521315	-.000138	.0067502	-.000314	-.000000
Stddev	.0000571	.0042148	.000442	.0004181	.000106	.000257
%RSD	15.00962	8.084933	321.3479	6.193536	33.82804	645191.6
#1	.0003400	.0551118	.000175	.0070458	-.000389	.000181
#2	.0004207	.0491512	-.000450	.0064546	-.000239	-.000181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006217	.1127752	.0004062	F -.012826	.0039829	.0046526
Stddev	.000703	.0045064	.0001905	.004020	.0001862	.0002851
%RSD	11.31407	3.995949	46.89801	31.33991	4.674483	6.126617
#1	-.006714	.1095886	.0002715	-.015669	.0041146	.0048541
#2	-.005720	.1159617	.0005410	-.009984	.0038513	.0044510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				10.00000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028494	.0556778	-.002221	.0006699	.0295732	.0004942
Stddev	.0000217	.0384360	.021158	.0002688	.0020523	.0006611
%RSD	.7612399	69.03279	952.7037	40.13276	6.939690	133.7659
#1	.0028340	.0284995	-.017182	.0004798	.0281220	.0000268
#2	.0028647	.0828561	.012740	.0008599	.0310244	.0009617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 500-440515/1-a Acquired: 7/13/2018 13:59:25 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006757**	**.1003003**	**.0007564**	**-.003389**	**-.001430**	**.0044999**
Stddev	.0004569	.0022433	.0004142	.002190	.001328	.0006710
%RSD	67.61061	2.236555	54.76107	64.61845	92.85377	14.91146
#1	.0003527	.0987141	.0010492	-.004937	-.002368	.0049744
#2	.0009988	.1018865	.0004635	-.001840	-.000491	.0040255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0258728**	**.0140540**	**.0001682**	**-.000083**	**-.002009**	**.0006103**
Stddev	.0013781	.0004322	.0000010	.000255	.000144	.0002101
%RSD	5.326255	3.075443	.5862328	305.2864	7.179032	34.43569
#1	.0248984	.0143596	.0001689	-.000263	-.001907	.0007588
#2	.0268473	.0137483	.0001675	.000097	-.002111	.0004617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	**.0124997**
Stddev	.0003228
%RSD	2.582159
#1	.0127279
#2	.0122714
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: mb 500-440515/1-a Acquired: 7/13/2018 13:59:25 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2182.548	1197.051	9207.927	4571.685
Stddev	7.919	6.865	28.344	9.153
%RSD	.3628101	.5735197	.3078200	.2002166
#1	2176.949	1192.196	9187.885	4565.213
#2	2188.147	1201.905	9227.969	4578.158

Sample Name: lcs 500-440515/2-a Acquired: 7/13/2018 14:03:27 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0428613**	**1.938218**	**.0890937**	**.8499357**	**1.902920**	**.0466429**
Stddev	.0002683	.006839	.0020529	.0030041	.000402	.0001431
%RSD	.6260926	.3528442	2.304197	.3534555	.0211340	.3068664
#1	.0426715	1.943054	.0876420	.8478115	1.902636	.0465417
#2	.0430510	1.933382	.0905453	.8520600	1.903205	.0467441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4449280**	**9.882432**	**.0457978**	F **-.019100**	**.4751897**	**.1910984**
Stddev	.0011162	.069962	.0001897	.003267	.0014410	.0000842
%RSD	.2508726	.7079441	.4142345	17.10328	.3032414	.0440837
#1	.4457173	9.832961	.0456637	-.021410	.4741708	.1910389
#2	.4441387	9.931903	.0459320	-.016790	.4762086	.1911580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				10.00000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2462264**	**1.034216**	**9.480870**	**.4762970**	**9.369234**	**.4798646**
Stddev	.0003934	.027882	.007930	.0000423	.053742	.0009754
%RSD	.1597649	2.695951	.0836444	.0088878	.5735982	.2032611
#1	.2459483	1.053932	9.486477	.4762671	9.331232	.4805543
#2	.2465046	1.014501	9.475262	.4763270	9.407235	.4791749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lcs 500-440515/2-a Acquired: 7/13/2018 14:03:27 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9322383	9.545433	.4702124	.0903998	.4502349	.0810134
Stddev	.0033038	.006423	.0002526	.0002728	.0030106	.0017202
%RSD	.3543905	.0672936	.0537207	.3017522	.6686648	2.123343
#1	.9299022	9.549975	.4700338	.0902069	.4481061	.0797970
#2	.9345744	9.540891	.4703910	.0905927	.4523637	.0822297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.735139	.9630669	.9629662	.9669377	.0894970	.4741341
Stddev	.007759	.0024641	.0034648	.0007077	.0004530	.0017643
%RSD	.2836826	.2558597	.3598065	.0731911	.5061678	.3721096
#1	2.729653	.9613245	.9605162	.9674382	.0898174	.4728865
#2	2.740626	.9648092	.9654162	.9664373	.0891767	.4753816
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.4742174
Stddev	.0027352
%RSD	.5767907
#1	.4722833
#2	.4761515
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: lcs 500-440515/2-a Acquired: 7/13/2018 14:03:27 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2116.837	1190.226	9163.149	4538.490
Stddev	.885	.366	15.055	12.862
%RSD	.0418260	.0307751	.1642974	.2833982
#1	2116.211	1189.967	9173.794	4547.585
#2	2117.463	1190.485	9152.504	4529.395

Sample Name: 500-148160-f-1-c Acquired: 7/13/2018 14:07:25 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046869	104.7654	.0594551	.0438445	1.886659	.0048217	.0076900
Stddev	.0001020	.1997	.0011285	.0000550	.002261	.0001835	.0000604
%RSD	2.176565	.1905927	1.897999	.1254287	.1198619	3.805276	.7855960
#1	.0047591	104.6242	.0586571	.0438834	1.885060	.0046920	.0077327
#2	.0046148	104.9066	.0602530	.0438056	1.888258	.0049515	.0076473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.29006	.0040653	.4967263	.1370246	.1369766	.1280610	140.6865
Stddev	.03314	.0000035	.0042532	.0006095	.0000436	.0003729	.1069
%RSD	.1093996	.0853136	.8562521	.4447844	.0318645	.2911713	.0759690
#1	30.31349	.0040677	.4997338	.1374556	.1369458	.1277973	140.7621
#2	30.26663	.0040628	.4937188	.1365937	.1370075	.1283246	140.6110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.63277	.0722371	19.28732	16.02371	.0087783	.5131731	.1944257
Stddev	.00875	.0003076	.05050	.02630	.0001825	.0021152	.0010097
%RSD	.0641511	.4257868	.2618203	.1641185	2.079346	.4121849	.5193414
#1	13.63895	.0724546	19.32303	16.04230	.0086492	.5116774	.1937117
#2	13.62659	.0720196	19.25161	16.00511	.0089074	.5146688	.1951397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148160-f-1-c Acquired: 7/13/2018 14:07:25 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2136303	.0036866	.0052264	1.526043	.0255461	.1917849	2.331979
Stddev	.0043139	.0004136	.0006386	.006177	.0008002	.0001812	.002597
%RSD	2.019320	11.21835	12.21839	.4047474	3.132197	.0944764	.1113694
#1	.2105799	.0033942	.0056780	1.521675	.0249803	.1916568	2.330142
#2	.2166807	.0039791	.0047749	1.530410	.0261119	.1919130	2.333815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.004611	.2729785	.7285955
Stddev	.001746	.0007639	.0014492
%RSD	37.86447	.2798304	.1988999
#1	-.003377	.2724383	.7275708
#2	-.005846	.2735186	.7296202
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2023.445	1355.911	10360.85	5169.091
Stddev	2.667	.364	12.24	9.319
%RSD	.1317986	.0268566	.1181429	.1802848
#1	2025.330	1355.654	10369.50	5162.502
#2	2021.559	1356.169	10352.19	5175.681

Sample Name: 500-148160-f-2-e Acquired: 7/13/2018 14:11:19 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029621	72.36027	.0321636	.0389529	.9173299	.0038956	.0045578
Stddev	.0003425	.11322	.0018265	.0004612	.0018318	.0001656	.0014509
%RSD	11.56409	.1564649	5.678754	1.183949	.1996850	4.250717	31.83317
#1	.0027199	72.28021	.0308721	.0386268	.9186252	.0037785	.0055837
#2	.0032043	72.44033	.0334551	.0392790	.9160347	.0040127	.0035319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.79326	.0008356	.5141172	.0611957	.0944000	.0707432	94.80577
Stddev	.06608	.0002669	.0094812	.0012827	.0005446	.0002822	.29792
%RSD	.3934707	31.93899	1.844175	2.096005	.5769276	.3989059	.3142434
#1	16.74654	.0010243	.5208215	.0602888	.0940149	.0709428	94.59511
#2	16.83998	.0006469	.5074130	.0621027	.0947851	.0705437	95.01643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.759760	.0509416	11.63020	4.165062	.0029557	.5282859	.1008370
Stddev	.010255	.0009446	.08669	.011696	.0004582	.0004360	.0022014
%RSD	.1321600	1.854198	.7453763	.2808235	15.50111	.0825381	2.183110
#1	7.767012	.0516095	11.56890	4.156791	.0032797	.5285942	.0992804
#2	7.752509	.0502737	11.69149	4.173332	.0026317	.5279776	.1023936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148160-f-2-e Acquired: 7/13/2018 14:11:19 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0842108	.0010356	.0010430	1.251585	.0181068	.1164010	2.181120
Stddev	.0009034	.0008790	.0035203	.014202	.0001621	.0002726	.010654
%RSD	1.072765	84.87875	337.5289	1.134722	.8949819	.2341737	.4884497
#1	.0848496	.0016571	.0035322	1.241543	.0179922	.1165938	2.188653
#2	.0835720	.0004141	-.001446	1.261627	.0182214	.1162083	2.173586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001937	.1906940	.2663444
Stddev	.001625	.0007851	.0034752
%RSD	83.87749	.4117047	1.304782
#1	-.003086	.1912491	.2638871
#2	-.000788	.1901388	.2688018
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2083.340	1366.567	10395.33	5152.438
Stddev	19.304	10.241	43.31	.845
%RSD	.9265694	.7494123	.4166177	.0164091
#1	2096.989	1373.808	10364.71	5153.036
#2	2069.690	1359.325	10425.96	5151.840

Sample Name: 500-148160-f-3-c Acquired: 7/13/2018 14:15:14 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028665	119.4320	.0666231	.0595910	1.172773	.0055318	.0098121
Stddev	.0006668	.2148	.0030309	.0002858	.001539	.0000746	.0011716
%RSD	23.26210	.1798807	4.549374	.4795563	.1312416	1.348768	11.93999
#1	.0033380	119.2801	.0687663	.0597931	1.171685	.0055845	.0106406
#2	.0023950	119.5839	.0644799	.0593890	1.173861	.0054790	.0089837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	69.86922	.0032559	.5529152	.0898210	.1477470	.1407116	159.9463
Stddev	.09682	.0000631	.0103952	.0000459	.0004730	.0002803	.2821
%RSD	.1385751	1.937809	1.880063	.0510520	.3201227	.1991982	.1763405
#1	69.93768	.0033005	.5602657	.0897886	.1474126	.1409098	159.7469
#2	69.80075	.0032113	.5455647	.0898534	.1480814	.1405134	160.1458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.66626	.0854331	22.90899	7.333291	.0071773	.9011206	.1688957
Stddev	.02450	.0000005	.02967	.010779	.0000946	.0016294	.0001288
%RSD	.1934333	.0005519	.1295240	.1469854	1.318576	.1808240	.0762686
#1	12.68358	.0854335	22.92997	7.325669	.0071104	.9022728	.1689868
#2	12.64893	.0854328	22.88801	7.340913	.0072442	.8999685	.1688046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148160-f-3-c Acquired: 7/13/2018 14:15:14 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2697651	.0028686	.0032974	1.789913	.0217023	.2322335	2.698522
Stddev	.0062712	.0023993	.0009331	.007867	.0000286	.0001560	.001618
%RSD	2.324677	83.64208	28.29900	.4395138	.1317742	.0671886	.0599715
#1	.2653307	.0011720	.0026376	1.784350	.0216821	.2323438	2.697377
#2	.2741995	.0045651	.0039573	1.795476	.0217226	.2321231	2.699666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000000	.2944275	.9251313
Stddev	.001021	.0004800	.0032197
%RSD	381128.0	.1630160	.3480262
#1	.000721	.2940881	.9228546
#2	-.000722	.2947669	.9274079
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1986.807	1322.447	10056.82	5026.095
Stddev	2.906	2.628	21.54	14.153
%RSD	.1462683	.1987463	.2142098	.2815943
#1	1984.752	1320.589	10041.59	5016.087
#2	1988.862	1324.306	10072.05	5036.102

Sample Name: 500-148160-f-4-c Acquired: 7/13/2018 14:19:09 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025981	107.0198	.0436031	.0624885	1.157836	.0046907	.0062687
Stddev	.0000235	.2392	.0002929	.0003677	.001439	.0001121	.0014521
%RSD	.9047404	.2234954	.6718384	.5883883	.1242936	2.389447	23.16476
#1	.0025815	106.8507	.0433960	.0627485	1.156818	.0046114	.0072955
#2	.0026147	107.1890	.0438103	.0622285	1.158853	.0047699	.0052419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.81248	.0022227	.5589836	.0710498	.1303457	.1304104	131.2388
Stddev	.07935	.0002668	.0228837	.0002315	.0009286	.0006573	.4087
%RSD	.2661546	12.00276	4.093808	.3257734	.7124217	.5040573	.3114502
#1	29.75637	.0020340	.5428024	.0712134	.1296891	.1308752	130.9497
#2	29.86858	.0024113	.5751648	.0708861	.1310023	.1299456	131.5278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.20100	.0690979	19.27464	4.841038	.0065116	.5656980	.1499003
Stddev	.04627	.0000856	.00939	.006618	.0003321	.0017819	.0000107
%RSD	.3258001	.1239252	.0486946	.1367154	5.100056	.3149836	.0071558
#1	14.16828	.0691584	19.26800	4.836358	.0067464	.5644380	.1499079
#2	14.23372	.0690373	19.28128	4.845718	.0062768	.5669580	.1498928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148160-f-4-c Acquired: 7/13/2018 14:19:09 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2372992	.0024973	.0032983	1.785370	.0185733	.1691845	2.576030
Stddev	.0032947	.0000361	.0008607	.003615	.0007555	.0003256	.003282
%RSD	1.388433	1.447141	26.09402	.2024984	4.067806	.1924241	.1274219
#1	.2349695	.0024718	.0026897	1.787926	.0180391	.1694148	2.578351
#2	.2396289	.0025229	.0039069	1.782814	.0191076	.1689544	2.573709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0003216	.2652857	.5747103
Stddev	.0003223	.0000906	.0031633
%RSD	100.2241	.0341440	.5504091
#1	.0000937	.2652217	.5724735
#2	.0005495	.2653498	.5769471
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2034.754	1345.118	10190.04	5078.523
Stddev	.075	4.181	18.69	1.799
%RSD	.0036846	.3108512	.1834468	.0354305
#1	2034.807	1342.161	10176.82	5079.796
#2	2034.701	1348.074	10203.25	5077.251

Sample Name: 500-148160-f-5-c Acquired: 7/13/2018 14:23:04 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027278	141.7764	.0756750	.0429641	1.093113	.0055556	.0072328
Stddev	.0001514	.0297	.0022954	.0001805	.001520	.0003376	.0008024
%RSD	5.551341	.0209754	3.033239	.4200421	.1390174	6.077651	11.09394
#1	.0028349	141.7554	.0772981	.0428365	1.094188	.0053168	.0066654
#2	.0026207	141.7975	.0740519	.0430917	1.092039	.0057943	.0078002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.59015	.0015104	.6027183	.0793051	.1619569	.1589325	182.9874
Stddev	.02197	.0001323	.0047107	.0007745	.0001381	.0008445	.2215
%RSD	.0931494	8.760187	.7815740	.9765550	.0852648	.5313469	.1210223
#1	23.60569	.0014169	.5993873	.0787575	.1620545	.1595297	182.8308
#2	23.57461	.0016040	.6060493	.0798527	.1618592	.1583354	183.1440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.47334	.0916565	23.63670	4.366544	.0063250	.4019174	.1792741
Stddev	.02403	.0002391	.04588	.006229	.0000795	.0006065	.0016105
%RSD	.1783229	.2608209	.1940867	.1426600	1.256514	.1508912	.8983474
#1	13.49033	.0914874	23.66914	4.370949	.0062688	.4014886	.1781353
#2	13.45635	.0918255	23.60426	4.362139	.0063812	.4023462	.1804129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148160-f-5-c Acquired: 7/13/2018 14:23:04 Type: Unk
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1693102	.0012823	.0011488	1.181145	.0227461	.1834785	2.254325
Stddev	.0027994	.0027255	.0022306	.001307	.0003738	.0002472	.001661
%RSD	1.653395	212.5451	194.1654	.1106938	1.643339	.1347030	.0736945
#1	.1673307	.0032096	.0027260	1.182070	.0224818	.1836532	2.253150
#2	.1712896	-.000645	-.000428	1.180221	.0230104	.1833037	2.255499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0014973	.3192860	.5675714
Stddev	.0021677	.0000311	.0038447
%RSD	144.7713	.0097567	.6773991
#1	-.000035	.3193080	.5648528
#2	.003030	.3192640	.5702900
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2019.729	1347.052	10202.30	5088.913
Stddev	.618	1.780	5.02	16.367
%RSD	.0305798	.1321447	.0492104	.3216252
#1	2019.292	1345.793	10198.75	5077.340
#2	2020.165	1348.310	10205.85	5100.487

Sample Name: CCV Acquired: 7/13/2018 14:27:00 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4952870**	**50.44190**	**.4898610**	**.4906442**	**.4851795**	**.5046043**
Stddev	.0009002	.06818	.0005457	.0003412	.0011199	.0022889
%RSD	.1817577	.1351562	.1113945	.0695428	.2308224	.4536033
#1	.4959235	50.39370	.4902468	.4908854	.4843876	.5029858
#2	.4946504	50.49011	.4894751	.4904029	.4859714	.5062228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5057970**	**26.15932**	**.4966893**	F **-.045292**	**.5083112**	**.4972970**
Stddev	.0020375	.10638	.0002342	.016586	.0026181	.0007956
%RSD	.4028347	.4066488	.0471538	36.61954	.5150616	.1599777
#1	.5043562	26.08410	.4965237	-.033564	.5064599	.4978596
#2	.5072377	26.23454	.4968549	-.057019	.5101625	.4967345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5129518**	**25.87351**	**49.25997**	**3.848451**	**25.07818**	**4.924968**
Stddev	.0011571	.00789	.05742	.001611	.08906	.015775
%RSD	.2255829	.0305138	.1165636	.0418651	.3551351	.3203066
#1	.5137700	25.86793	49.21937	3.847312	25.01521	4.913813
#2	.5121336	25.87910	49.30058	3.849590	25.14116	4.936122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 7/13/2018 14:27:00 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4689799	24.47748	.5027335	.5125416	.4675346	.4919801
Stddev	.0004515	.02108	.0001509	.0048871	.0050406	.0040809
%RSD	.0962814	.0861082	.0300104	.9535134	1.078116	.8294863
#1	.4686607	24.46258	.5028401	.5090859	.4710989	.4948658
#2	.4692992	24.49239	.5026268	.5159974	.4639704	.4890945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4404968	.5178439	.4998954	.4996248	.4986581	4.871835
Stddev	.0010202	.0027218	.0000194	.0006147	.0021550	.002156
%RSD	.2316094	.5256049	.0038751	.1230377	.4321621	.0442562
#1	.4397754	.5159193	.4998817	.5000594	.5001819	4.873359
#2	.4412182	.5197685	.4999091	.4991901	.4971343	4.870310
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5249682
Stddev	.0005787
%RSD	.1102284
#1	.5245590
#2	.5253774
Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 7/13/2018 14:27:00 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2051.426	1217.367	9226.515	4562.822
Stddev	5.423	.574	13.858	16.981
%RSD	.2643527	.0471570	.1501954	.3721640
#1	2055.260	1217.773	9236.314	4574.829
#2	2047.591	1216.961	9216.716	4550.814

Sample Name: CCB Acquired: 7/13/2018 14:30:52 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000989**	**.0124936**	**.0011212**	**.0009239**	**-.000364**	**-.000274**
Stddev	.000068	.0054926	.0006179	.0001390	.000137	.000172
%RSD	6.872057	43.96368	55.11533	15.04205	37.62795	62.81130
#1	-.000941	.0086097	.0015581	.0010221	-.000267	-.000152
#2	-.001037	.0163775	.0006842	.0008256	-.000460	-.000396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011603**	**-.000211**	**.0001765**	F **-.005685**	**-.000266**	**-.000594**
Stddev	.0001775	.001026	.0001162	.016431	.000284	.000038
%RSD	15.29351	485.1439	65.86948	289.0299	106.4166	6.351927
#1	.0012858	-.000937	.0002587	.005933	-.000066	-.000620
#2	.0010348	.000514	.0000943	-.017303	-.000467	-.000567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014393**	**-.004974**	**-.007366**	**.0007263**	**-.009563**	**.0000790**
Stddev	.0002823	.018221	.003304	.0000172	.011516	.0008595
%RSD	19.61487	366.3144	44.85402	2.371651	120.4158	1087.188
#1	.0012397	.007910	-.005030	.0007384	-.001420	-.000529
#2	.0016389	-.017858	-.009702	.0007141	-.017706	.000687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 7/13/2018 14:30:52 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001358	-.012480	.0000595	-.000630	-.002529	.0028832
Stddev	.0002826	.006948	.0001961	.000841	.000566	.0030065
%RSD	208.0352	55.67132	329.4616	133.4883	22.37232	104.2775
#1	.0003356	-.017393	-.000079	-.000035	-.002129	.0007573
#2	-.000064	-.007567	.000198	-.001225	-.002929	.0050091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000729	.0010455	-.000050	.0002186	.0007522	.0002918
Stddev	.000613	.0004396	.000004	.0001548	.0009426	.0001889
%RSD	83.99907	42.05253	7.361283	70.82265	125.3212	64.73495
#1	-.001163	.0013563	-.000052	.0003281	.0014187	.0001582
#2	-.000296	.0007346	-.000047	.0001091	.0000856	.0004254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	-.000222
Stddev	.000100
%RSD	44.90921
#1	-.000152
#2	-.000293
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 7/13/2018 14:30:52 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2229.579	1238.099	9377.647	4594.872
Stddev	1.735	.546	13.686	2.887
%RSD	.0778207	.0441182	.1459458	.0628229
#1	2230.805	1237.712	9367.969	4592.831
#2	2228.352	1238.485	9387.325	4596.913

Sample Name: CCVL Acquired: 7/13/2018 14:34:56 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048194**	**.1946265**	**.0093303**	**.0499491**	**.0094472**	**.0039879**
Stddev	.0004251	.0129656	.0009892	.0003180	.0000861	.0002238
%RSD	8.819720	6.661790	10.60198	.6367106	.9112394	5.612809
#1	.0051199	.1854584	.0100298	.0501740	.0093863	.0041462
#2	.0045188	.2037946	.0086309	.0497242	.0095081	.0038297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0494257**	F **.2949495**	**.0018834**	F **-.009700**	**.0047910**	**.0101731**
Stddev	.0010964	.0035888	.0000231	.011858	.0001057	.0005712
%RSD	2.218261	1.216763	1.227608	122.2544	2.207097	5.614967
#1	.0502010	.2974872	.0018998	-.001315	.0048658	.0105770
#2	.0486504	.2924118	.0018671	-.018085	.0047163	.0097692
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value		.2000000		.0050000		
Range		30.00000%		-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0110556**	**.2246101**	**.4807877**	**.0107780**	**.0843028**	**.0100072**
Stddev	.0000154	.0528952	.0059660	.0000851	.0198153	.0007111
%RSD	.1393688	23.54978	1.240887	.7893497	23.50488	7.106112
#1	.0110665	.2620126	.4765690	.0108381	.0983143	.0105101
#2	.0110447	.1872075	.4850063	.0107178	.0702913	.0095044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 7/13/2018 14:34:56 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0094307	.9824255	.0110593	.0040343	.0154935	.0114673
Stddev	.0003108	.0022871	.0002438	.0010294	.0006205	.0017438
%RSD	3.295271	.2327991	2.204928	25.51562	4.005153	15.20680
#1	.0096504	.9808083	.0108868	.0047622	.0159323	.0127004
#2	.0092109	.9840427	.0112317	.0033064	.0150547	.0102343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1811775	.0390751	.0051108	.0047793	.0097220	.0048735
Stddev	.0009643	.0015514	.0000211	.0000663	.0006045	.0000256
%RSD	.5322358	3.970381	.4118013	1.386893	6.217746	.5249406
#1	.1804957	.0401722	.0051257	.0048262	.0101494	.0048915
#2	.1818594	.0379781	.0050959	.0047325	.0092946	.0048554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0204266
Stddev	.0003936
%RSD	1.926850
#1	.0201483
#2	.0207049
Check ?	Chk Pass
Value	
Range	

Sample Name: CCVL Acquired: 7/13/2018 14:34:56 Type: QC
Method: P6071318A Mode: CONC Corr. Factor: 1.000000
User: filipj Custom ID1: Custom ID2: Custom ID3:
Comment:

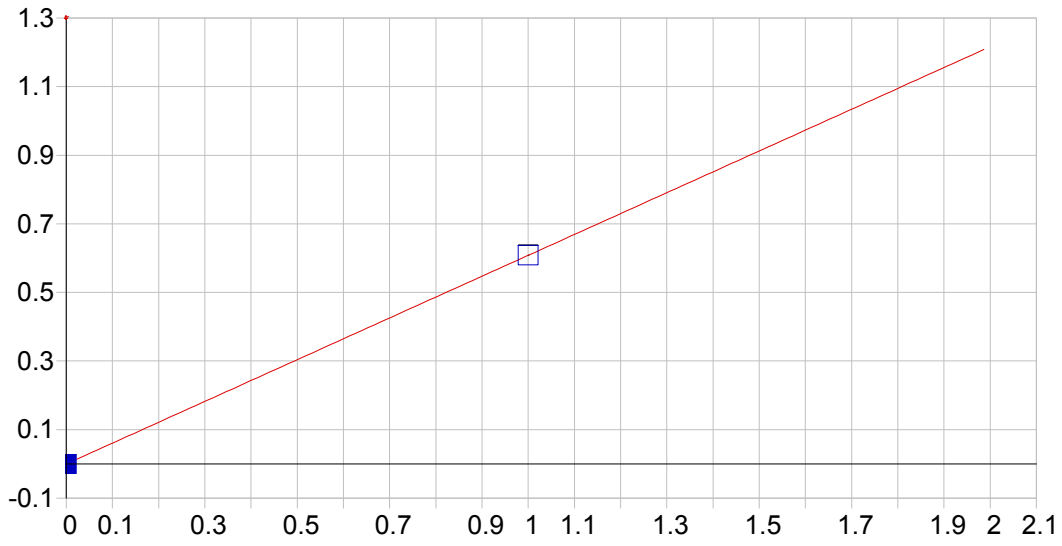
Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2227.536	1238.789	9347.779	4579.902
Stddev	7.694	4.376	28.009	9.124
%RSD	.3453855	.3532676	.2996379	.1992142
#1	2232.976	1241.884	9327.973	4573.450
#2	2222.096	1235.695	9367.585	4586.353

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact	Check
1	---	---	---	---	Cal	---	---	---	---
2	72	2	12	1	QC	S1	P6071618B	1	☒
3	73	2	1	2	QC	S2		1	☒
4	74	2	2	2	QC	ICV		1	☒
5	75	2	3	2	QC	ICB		1	☒
6	76	2	4	2	QC	ICVL		1	☒
7	77	2	5	2	QC	CRI		1	☒
8	143	3	11	2	QC	LRC		1	☒
9	78	2	6	2	QC	ICSA		1	☒
10	79	2	7	2	QC	ICSAB		1	☒
11	144	3	12	2	QC	AL		1	☒
12	145	3	1	3	QC	FE		1	☒
13	80	2	8	2	QC	CCV		1	☒
14	81	2	9	2	QC	CCB		1	☒
15	82	2	10	2	QC	MRL		1	☒
16	83	2	11	2	Unk	mb 500-440876/1-a		1	☒
17	84	2	12	2	Unk	lcs 500-440876/2-a		1	☒
18	85	2	1	3	Unk	500-148362-a-2-a		1	☒
19	86	2	2	3	Unk	500-148362-a-2-aSD@5		1	☒
20	87	2	3	3	Unk	500-148362-a-2-b du		1	☒
21	88	2	4	3	Unk	500-148362-a-2-c ms		1	☒
22	89	2	5	3	Unk	500-148283-f-1-a		1	☒
23	90	2	6	3	Unk	500-148283-a-2-a		1	☒
24	91	2	7	3	Unk	mb 500-440816/1-b		1	☒
25	92	2	8	3	Unk	500-148283-g-1-b		1	☒
26	93	2	9	3	QC	CCV		1	☒
27	94	2	10	3	QC	CCB		1	☒
28	95	2	11	3	Unk	lb 500-440847/1-b		1	☒
29	96	2	12	3	Unk	lcs 500-440994/2-a		1	☒
30	97	2	1	4	Unk	500-147844-b-1-g		1	☒
31	98	2	2	4	Unk	500-147844-b-2-d		1	☒
32	99	2	3	4	Unk	500-147844-b-9-e		1	☒
33	100	2	4	4	Unk	500-147844-b-11-d		1	☒
34	101	2	5	4	Unk	500-147844-b-18-d		1	☒
35	102	2	6	4	Unk	500-147844-b-19-c		1	☒
36	103	2	7	4	Unk	500-147844-b-28-c		1	☒
37	104	2	8	4	Unk	500-148332-e-1-e		1	☒
38	105	2	9	4	QC	CCV		1	☒
39	106	2	10	4	QC	CCB		1	☒
40	107	2	11	4	Unk	500-148332-e-2-e		1	☒
41	108	2	12	4	Unk	500-148287-b-56-b		1	☒
42	109	2	1	5	Unk	500-148287-a-57-b		1	☒
43	110	2	2	5	Unk	500-148365-c-1-b		1	☒
44	111	2	3	5	Unk	500-148365-c-1-bSD@5		1	☒
45	112	2	4	5	Unk	500-148365-c-1-c du		1	☒
46	113	2	5	5	Unk	500-148365-c-1-d ms		1	☒
47	114	2	6	5	Unk	lb2 500-440849/1-b		1	☒
48	115	2	7	5	Unk	500-148299-a-1-b		1	☒
49	116	2	8	5	Unk	lb3 500-440834/1-b		1	☒
50	117	2	9	5	QC	CCV		1	☒
51	118	2	10	5	QC	CCB		1	☒
52	146	3	2	3	QC	CCVL		1	☒
53	119	2	11	5	Unk	500-148364-i-1-c@5		1	☒
54	120	2	12	5	Unk	lb3 500-440937/1-b		1	☒
55	121	3	1	1	Unk	500-148436-k-1-c@5		1	☒
56	122	3	2	1	Unk	lb 500-440954/1-b		1	☒
57	123	3	3	1	Unk	lcs 500-441018/2-a		1	☒
58	124	3	4	1	Unk	500-148398-a-1-c		1	☒
59	125	3	5	1	Unk	500-148374-a-1-c		1	☒
60	126	3	6	1	Unk	500-148374-a-2-c		1	☒
61	127	3	7	1	Unk	500-147959-a-6-e		1	☒
62	128	3	8	1	Unk	500-147959-a-7-e		1	☒
63	129	3	9	1	QC	CCV		1	☒

	Check Table	Fail Action
1	---	None
2	S1	None
3	S2	None
4	ICV	None
5	ICB	None
6	CCVLL	None
7	CRI	None
8	LRC	None
9	ICSA	None
10	ICSAB	None
11	IEC	None
12	IEC	None
13	CCV	None
14	CCB	None
15	CCVLL	None
16	RLTABLE	---
17	RLTABLE	---
18	RLTABLE	---
19	RLTABLE	---
20	RLTABLE	---
21	RLTABLE	---
22	RLTABLE	---
23	RLTABLE	---
24	RLTABLE	---
25	RLTABLE	---
26	CCV	None
27	CCB	None
28	RLTABLE	---
29	RLTABLE	---
30	RLTABLE	---
31	RLTABLE	---
32	RLTABLE	---
33	RLTABLE	---
34	RLTABLE	---
35	RLTABLE	---
36	RLTABLE	---
37	RLTABLE	---
38	CCV	None
39	CCB	None
40	RLTABLE	---
41	RLTABLE	---
42	RLTABLE	---
43	RLTABLE	---
44	RLTABLE	---
45	RLTABLE	---
46	RLTABLE	---
47	RLTABLE	---
48	RLTABLE	---
49	RLTABLE	---
50	CCV	None
51	CCB	None
52	CCVLL	None
53	RLTABLE	---
54	RLTABLE	---
55	RLTABLE	---
56	RLTABLE	---
57	RLTABLE	---
58	RLTABLE	---
59	RLTABLE	---
60	RLTABLE	---
61	RLTABLE	---
62	RLTABLE	---
63	CCV	None

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact	Check
64	130	3	10	1	QC	CCB		1	☒
65	147	3	3	3	QC	CCVL		1	☒
66	131	3	11	1	Unk	500-147959-b-8-d		1	☒
67	132	3	12	1	Unk	500-147959-a-11-h		1	☒
68	133	3	1	2	Unk	500-147959-a-17-e		1	☒
69	134	3	2	2	Unk	500-147959-a-18-e		1	☒
70	135	3	3	2	Unk	147959-a-18-esd@5		1	☒
71	136	3	4	2	Unk	500-147959-a-18 du		1	☒
72	137	3	5	2	Unk	500-147959-a-18 msd		1	☒
73	138	3	6	2	Unk	500-147959-A-19-E		1	☒
74	139	3	7	2	Unk	500-148414-A-1-B@5		1	☒
75	140	3	8	2	QC	CCV		1	☒
76	141	3	9	2	QC	CCB		1	☒
77	142	3	10	2	QC	CCVL		1	☒
78	Rinse	---	---	---	Rinse	Rinse	---	---	---

	Check Table	Fail Action
64	CCB	None
65	CCVLL	None
66	RLTABLE	---
67	RLTABLE	---
68	RLTABLE	---
69	RLTABLE	---
70	RLTABLE	---
71	RLTABLE	---
72	RLTABLE	---
73	RLTABLE	---
74	RLTABLE	---
75	CCV	None
76	CCB	None
77	CCVLL	None
78	---	---

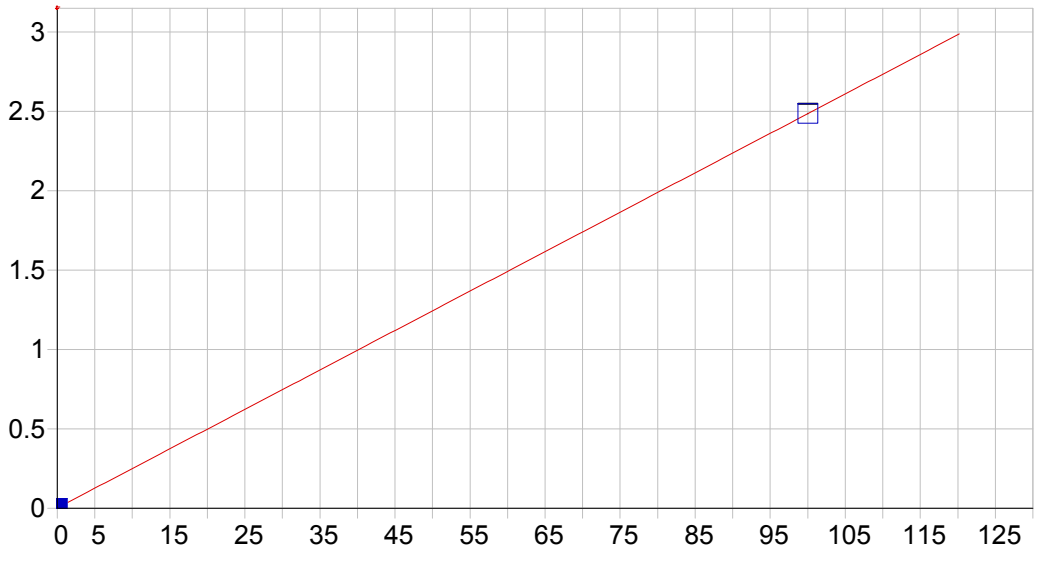


Ag 328.068 {103}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000360	Re-Slope:	1.000000
A1 (Gain):	0.608447	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000750		
Predicted MQL:	0.002499		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00036	.000	1
S1	1.0000	1.0000	.000	.000	.60809	.000	1



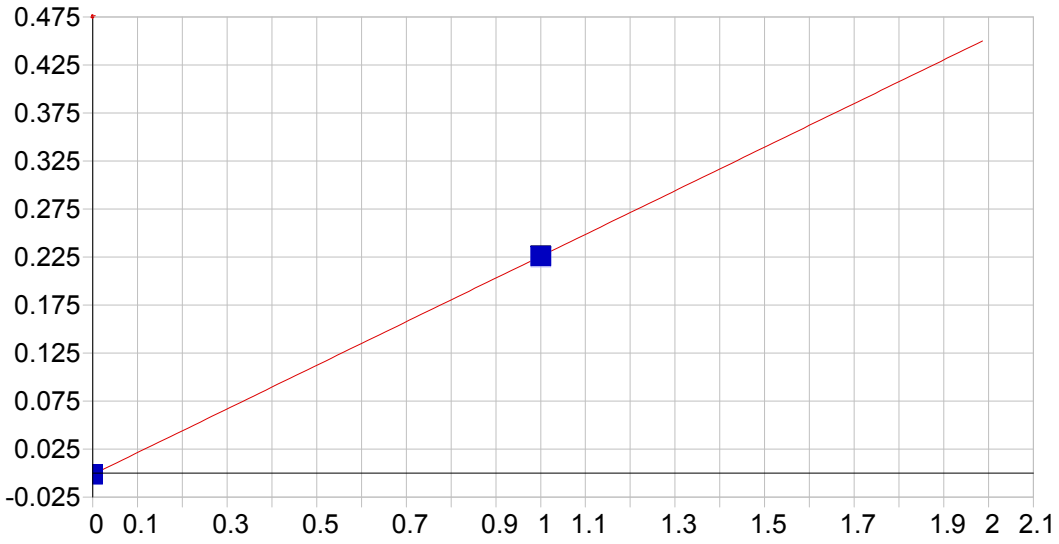
Al 308.215 {109}

Date of Fit:	7/16/2018 16:43:33	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001947	Re-Slope:	1.000000
A1 (Gain):	0.024843	Y-int:	0.000000
A2 (Curvature):	0.000000		

n (Exponent):		1.000000					
Correlation:		1.000000		Status:	OK.		
Std Error of Est:		0.000000					
Predicted MDL:		0.021952					
Predicted MQL:		0.073174					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00195	.000	1
S2	100.00	100.00	.000	.000	2.4862	.002	1

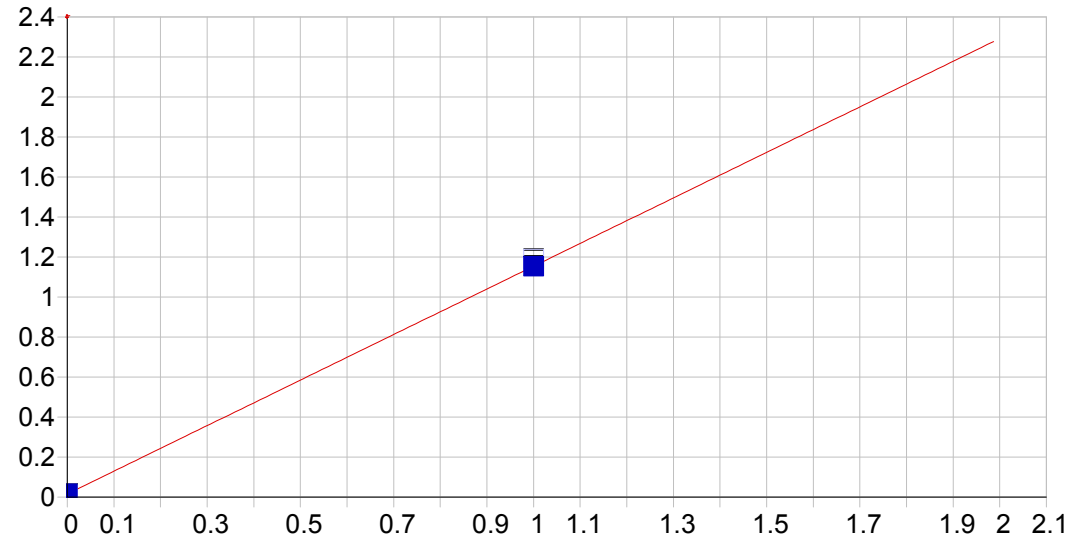


As 189.042 {478}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001366	Re-Slope:	1.000000
A1 (Gain):	0.227209	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002480		
Predicted MQL:	0.008266		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00137	.000	1
S1	1.0000	1.0000	.000	.000	.22483	.000	1

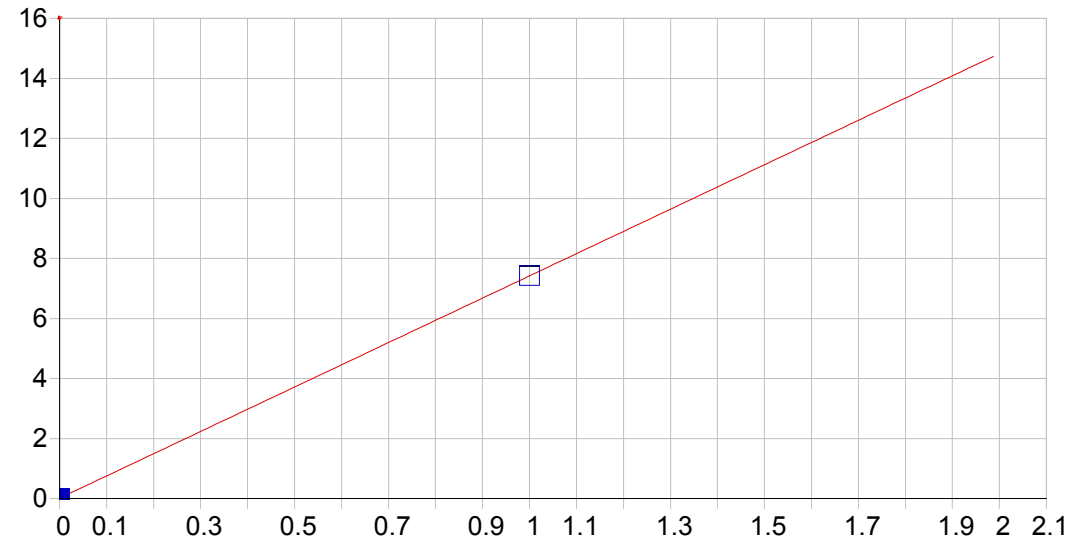


B 208.959 {461}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.015813	Re-Slope:	1.000000
A1 (Gain):	1.138173	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000471		
Predicted MQL:	0.001570		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01581	.001	1
S1	1.0000	1.0000	.000	.000	1.1884	.002	1



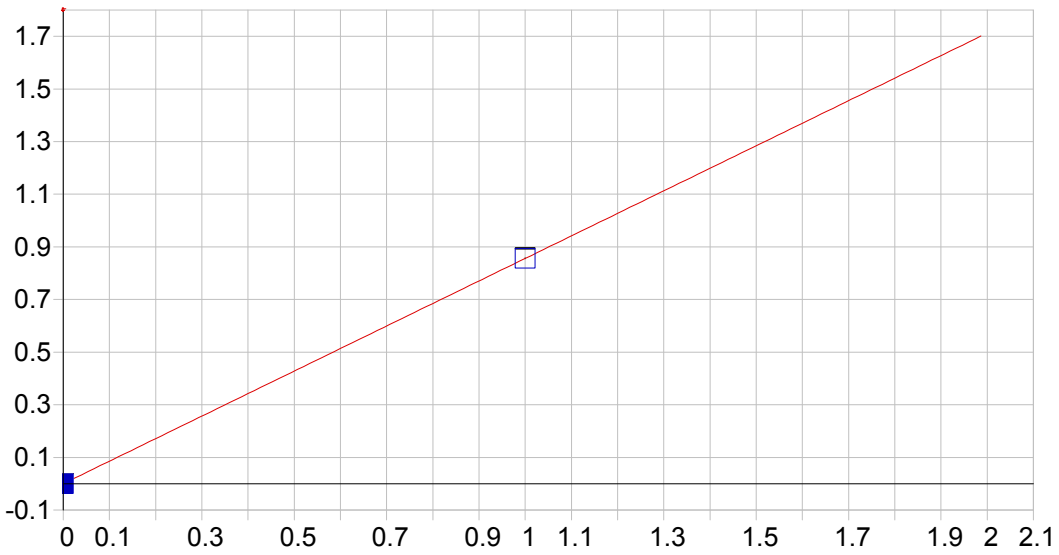
Ba 455.403 { 74}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.010983	Re-Slope:	1.000000
A1 (Gain):	7.407709	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000159		
Predicted MQL:	0.000531		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01098	.001	1
S1	1.0000	1.0000	.000	.000	7.4187	.002	1

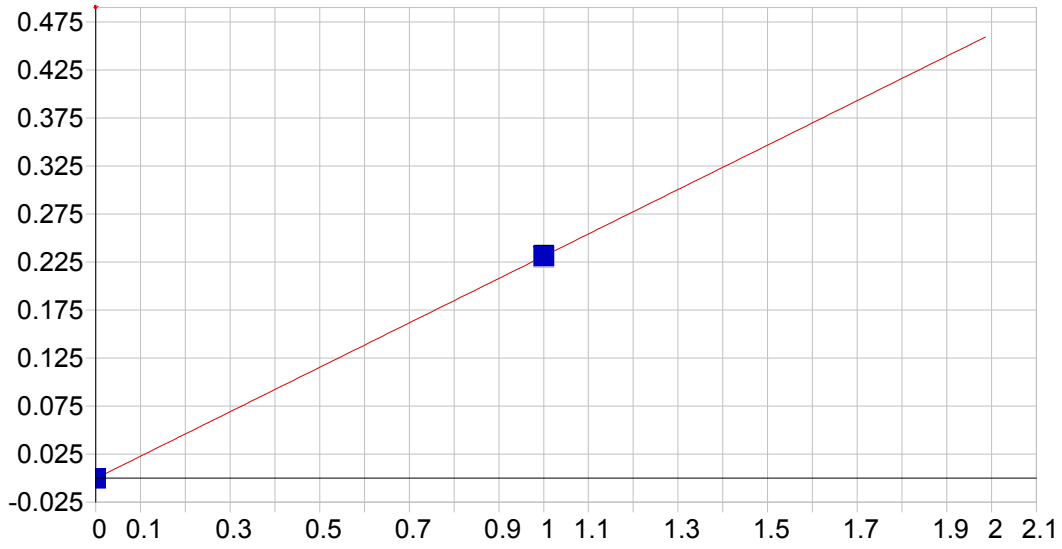


Be 234.861 {143}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.856176	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000408		
Predicted MQL:	0.001360		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00003	.000	1
S1	1.0000	1.0000	.000	.000	.85621	.002	1

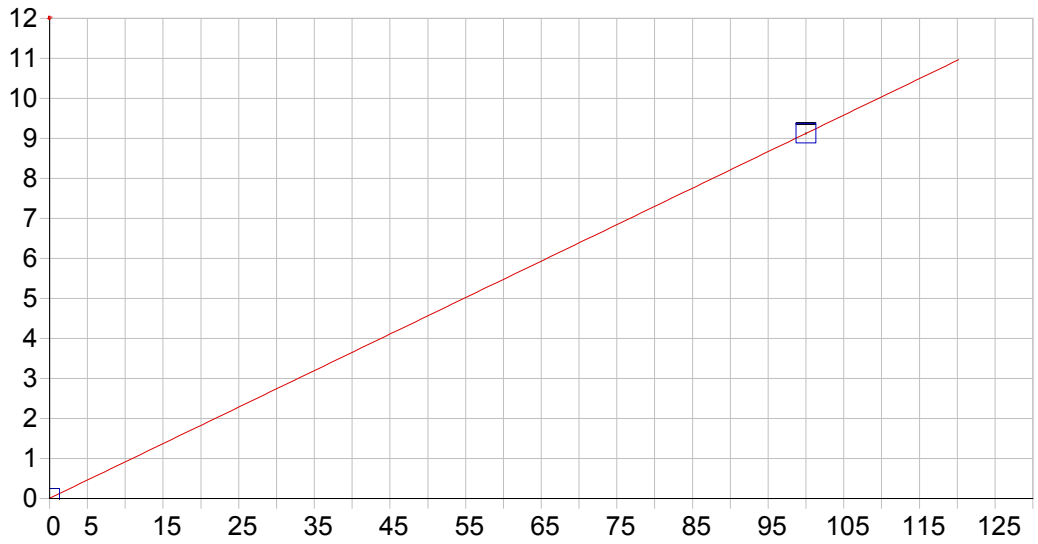


Bi 223.061 {451}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000350	Re-Slope:	1.000000
A1 (Gain):	0.231414	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001902		
Predicted MQL:	0.006339		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00035	.000	1
S1	1.0000	1.0000	.000	.000	.22936	.001	1



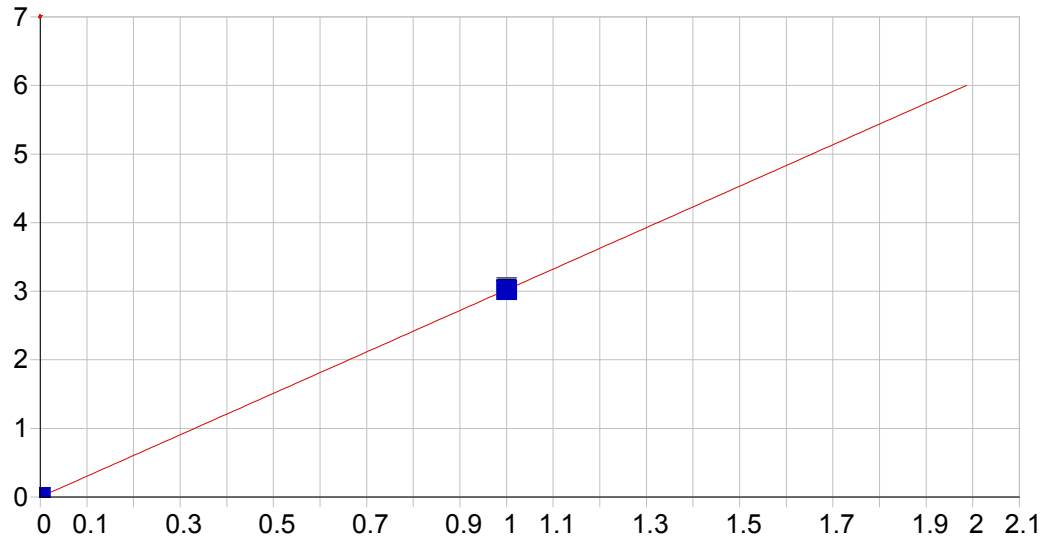
Ca 317.933 {106}

Date of Fit:	7/16/2018 16:43:33	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004245	Re-Slope:	1.000000
A1 (Gain):	0.091210	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:		1.000000		Status:	OK.		
Std Error of Est:		0.000000					
Predicted MDL:		0.004845					
Predicted MQL:		0.016149					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00425	.000	1
S2	100.00	100.00	.000	.000	9.1252	.021	1

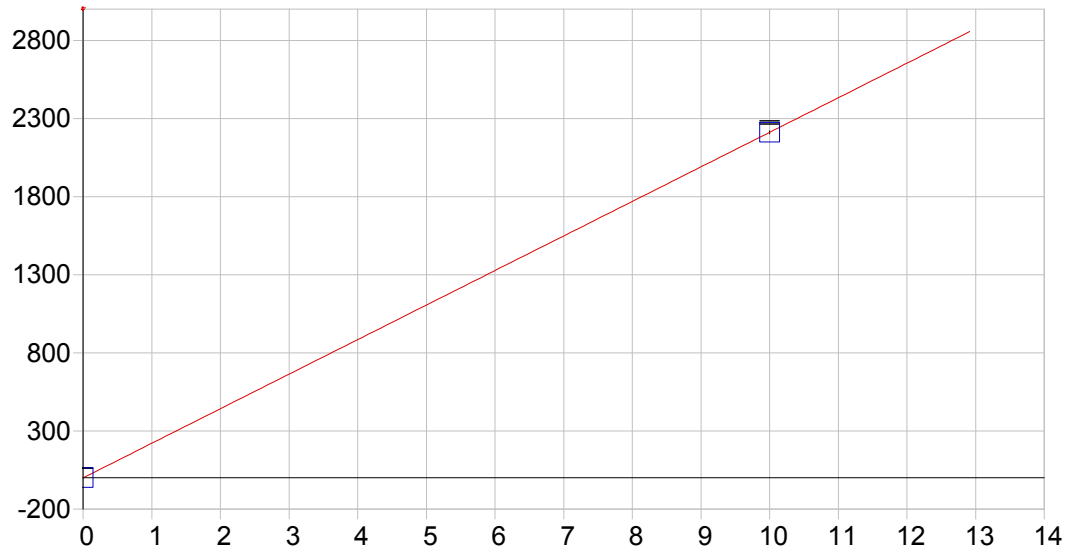


Cd 228.802 {447}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001277	Re-Slope:	1.000000
A1 (Gain):	3.020134	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000243		
Predicted MQL:	0.000810		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00128	.001	1
S1	1.0000	1.0000	.000	.000	3.0492	.005	1

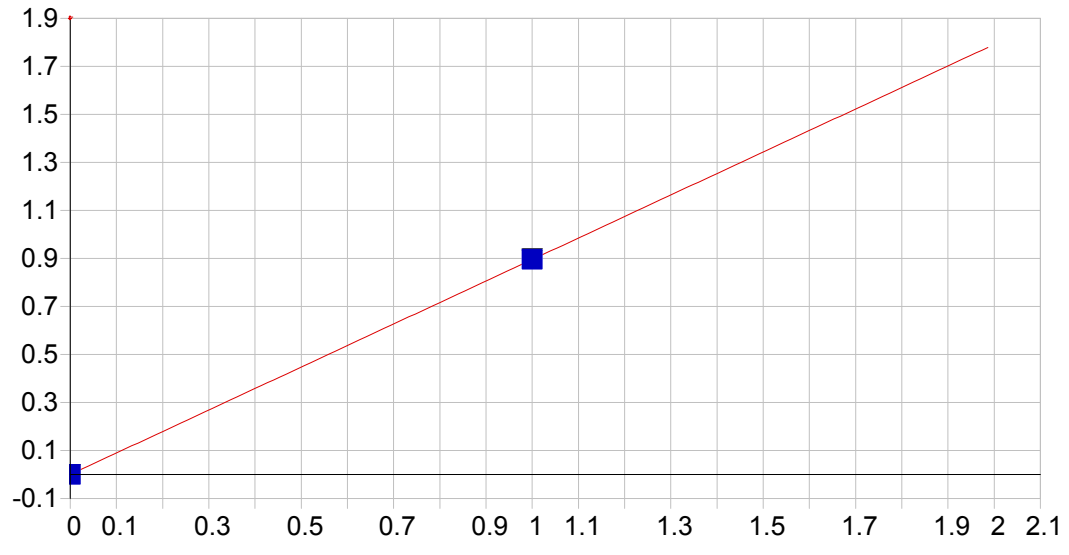


Ce 404.076 { 83}

Date of Fit:	7/16/2018 16:47:39	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.062484	Re-Slope:	1.000000
A1 (Gain):	221.140027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.018483		
Predicted MQL:	0.061612		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.06248	1.19	1
CE	10.000	10.0000	.000	.000	2211.5	10.6	1



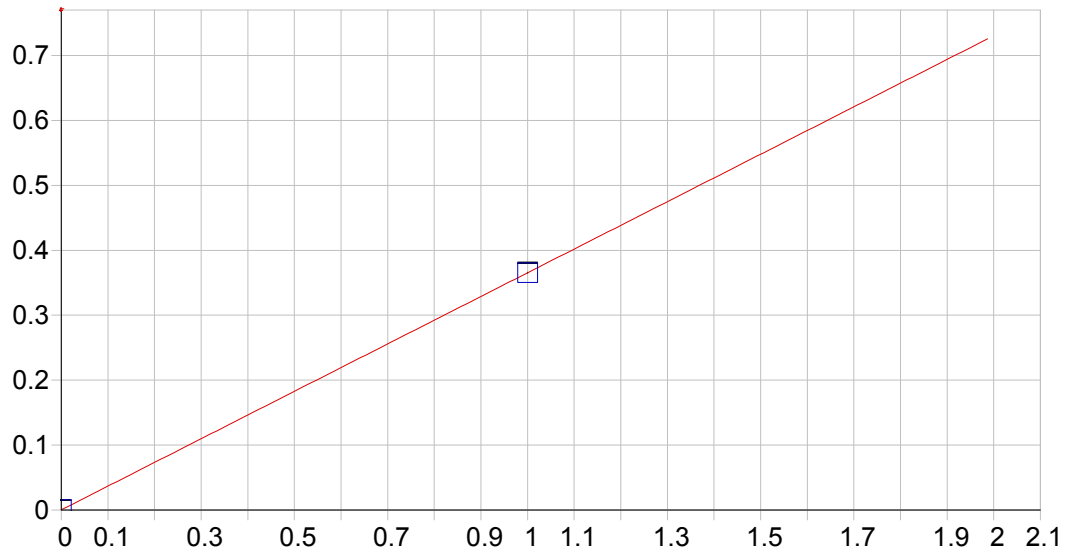
Co 228.616 {447}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000080	Re-Slope:	1.000000
A1 (Gain):	0.895620	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000463		
Predicted MQL:	0.001544		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00008	.000	1
S1	1.0000	1.0000	.000	.000	.89699	.003	1

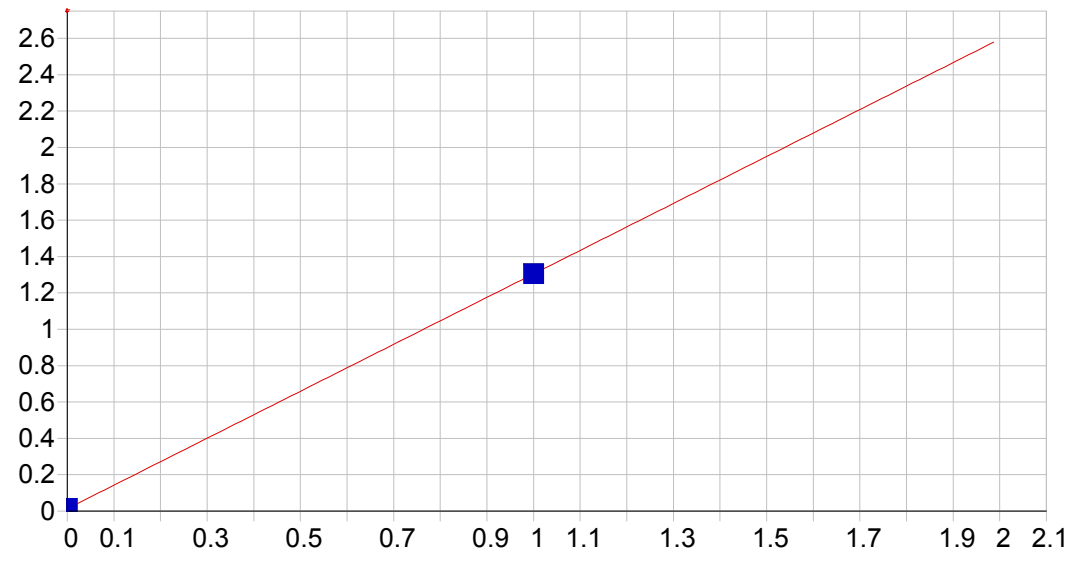


Cr 267.716 {126}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000249	Re-Slope:	1.000000
A1 (Gain):	0.365121	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000849		
Predicted MQL:	0.002829		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00025	.000	1
S1	1.0000	1.0000	.000	.000	.36537	.001	1

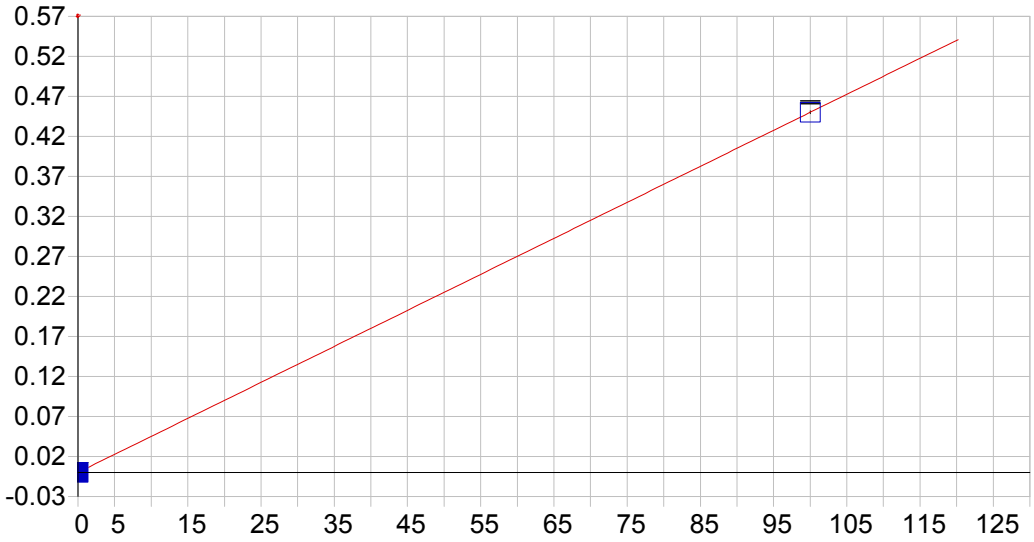


Cu 324.754 {104}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.013411	Re-Slope:	1.000000
A1 (Gain):	1.291249	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000367		
Predicted MQL:	0.001223		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01341	.000	1
S1	1.0000	1.00000	.000	.000	1.3043	.000	1



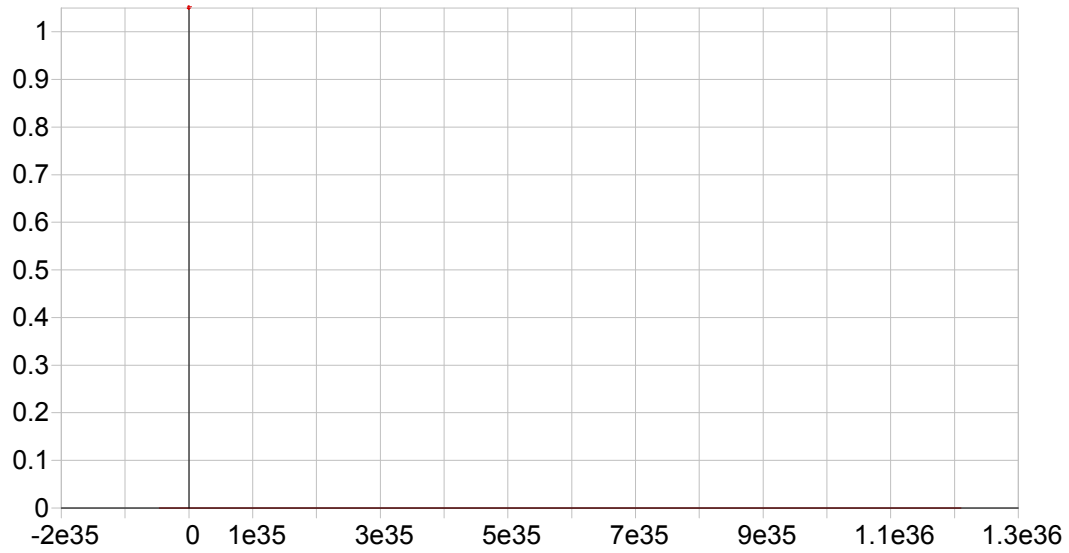
Fe 271.441 {124}

Date of Fit:	7/16/2018 16:43:33	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000111	Re-Slope:	1.000000
A1 (Gain):	0.004500	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000		Status:	OK.
Std Error of Est:	0.000000			
Predicted MDL:	0.068774			
Predicted MQL:	0.229247			

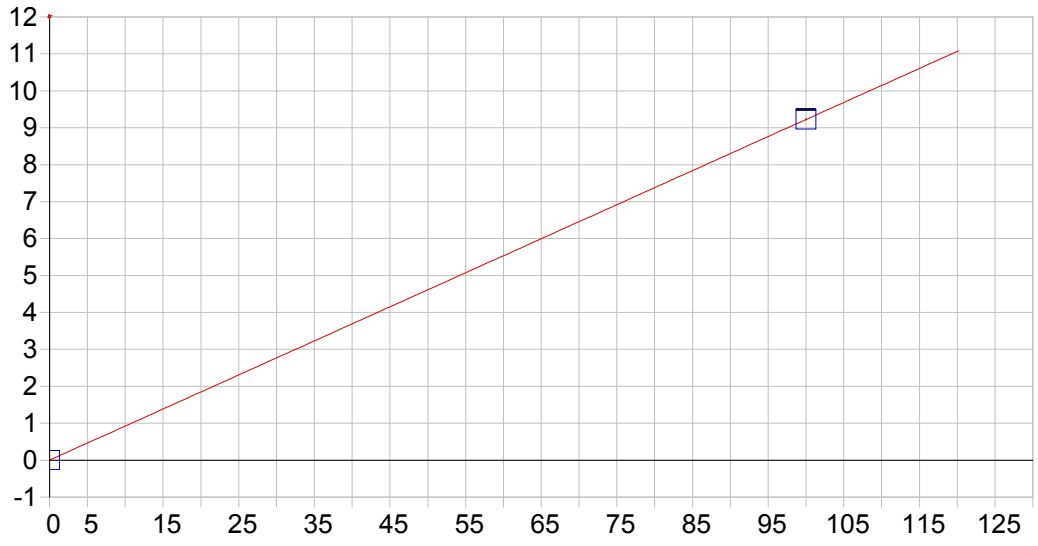
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.000	1
S2	100.00	100.00	.000	.000	.45009	.002	1



In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000000		Re-Slope:	1.000000		
A1 (Gain):	0.000000		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

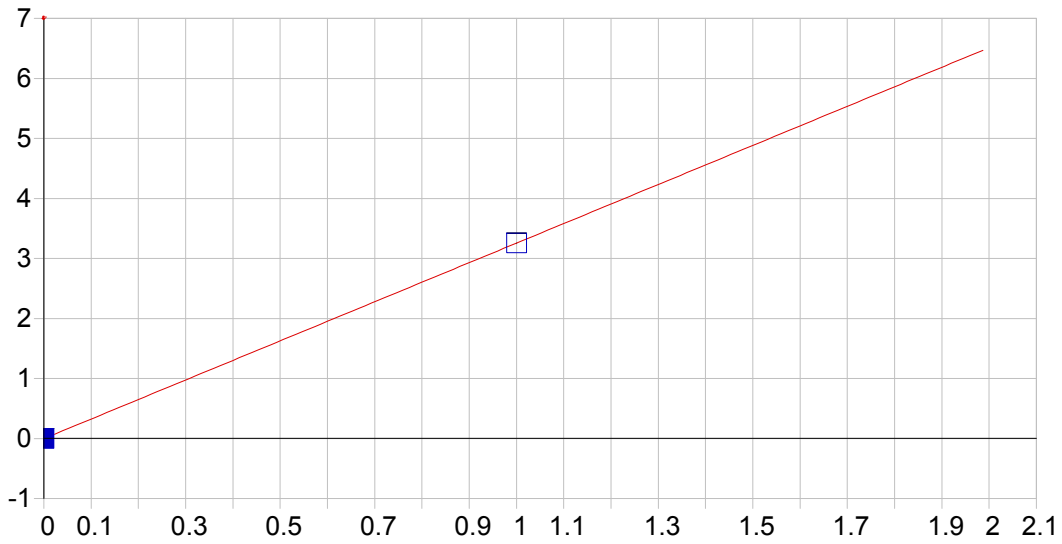


K 766.490 { 44}

Date of Fit:	7/16/2018 16:43:33	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001731	Re-Slope:	1.000000
A1 (Gain):	0.092216	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.023915		
Predicted MQL:	0.079716		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00173	.002	1
S2	100.00	100.00	.000	.000	9.2233	.018	1



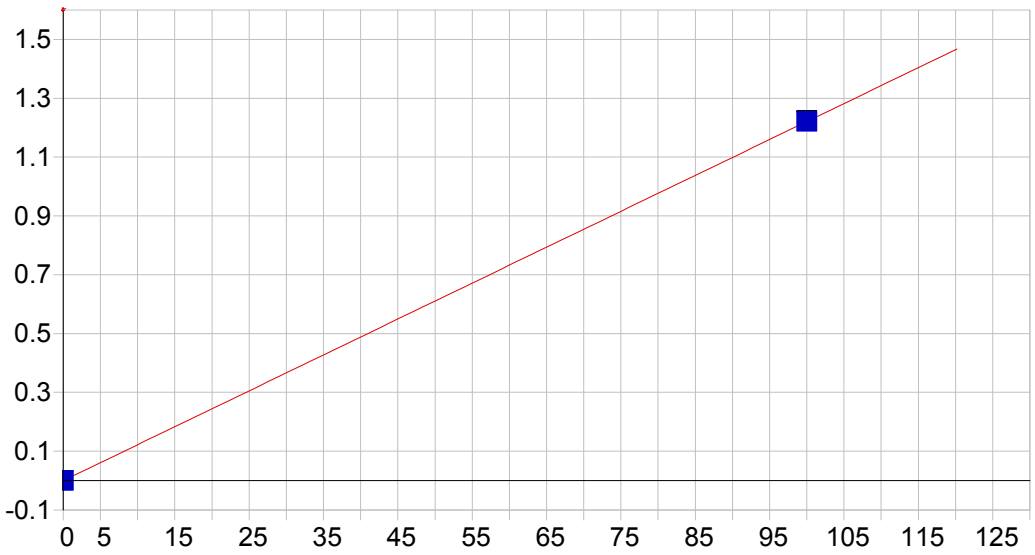
Li 670.784 { 50}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002029	Re-Slope:	1.000000
A1 (Gain):	3.256946	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000680		
Predicted MQL:	0.002268		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00203	.000	1
S1	1.0000	1.0000	.000	.000	3.2549	.003	1

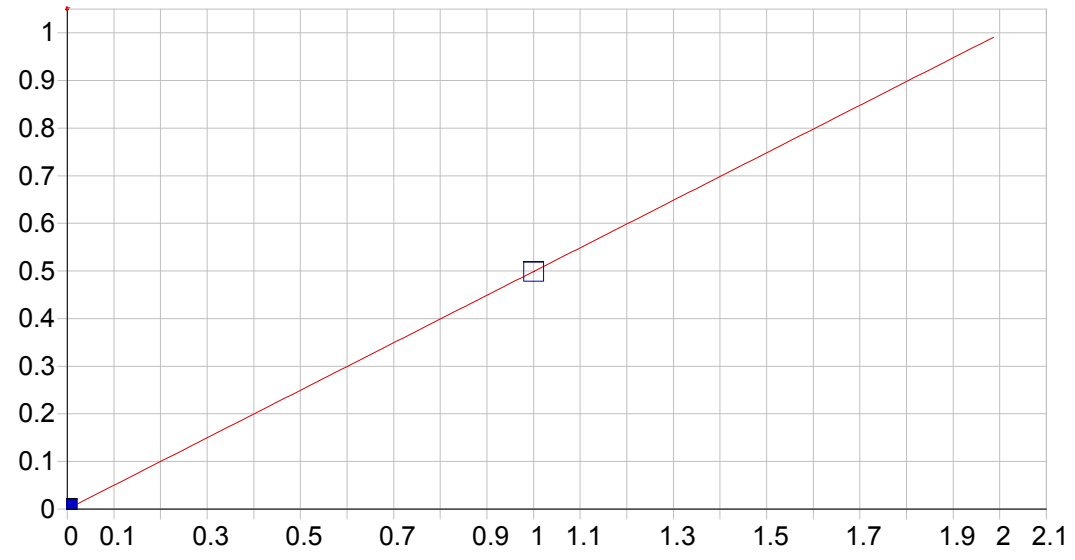


Mg 279.079 {121}

Date of Fit:	7/16/2018 16:43:33	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000011	Re-Slope:	1.000000
A1 (Gain):	0.012209	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.026999		
Predicted MQL:	0.089996		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00001	.000	1
S2	100.00	100.000	.000	.000	1.2209	.002	1

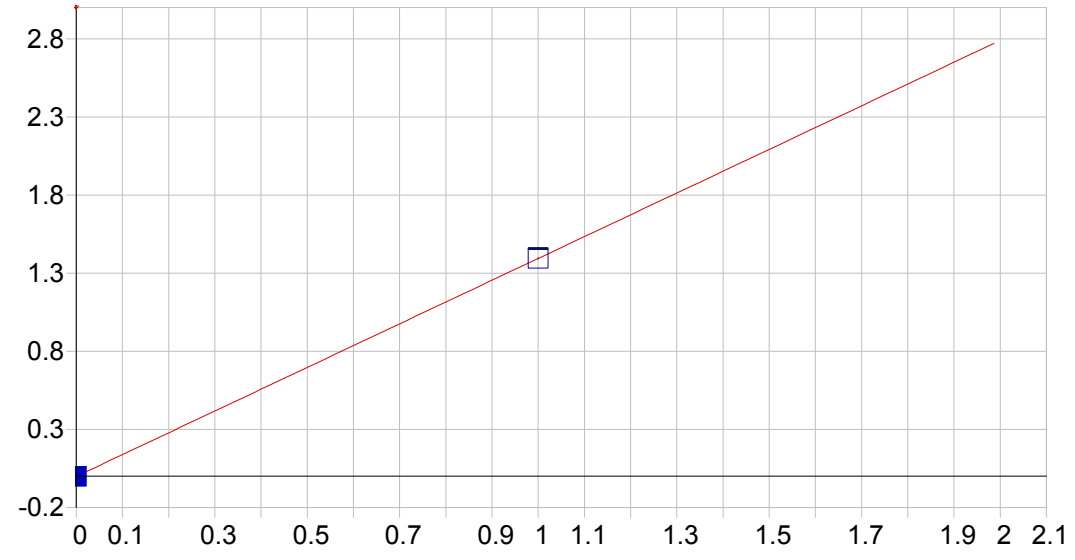


Mn 257.610 {131}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000211	Re-Slope:	1.000000
A1 (Gain):	0.498719	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000654		
Predicted MQL:	0.002180		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00021	.000	1
S1	1.0000	1.0000	.000	.000	.49893	.000	1



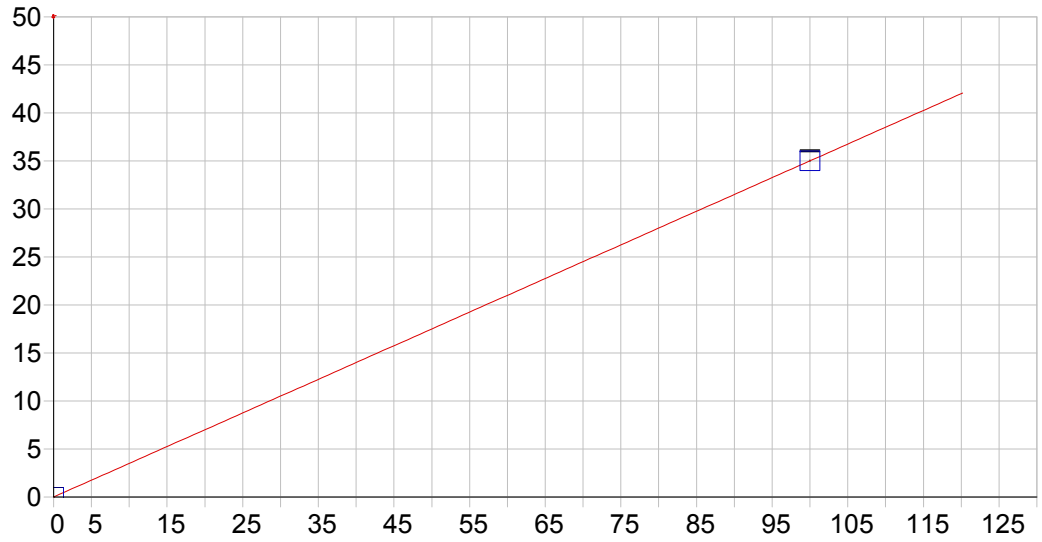
Mo 202.030 {467}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001001	Re-Slope:	1.000000
A1 (Gain):	1.395187	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000418		
Predicted MQL:	0.001392		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00100	.000	1
S1	1.0000	1.0000	.000	.000	1.3942	.004	1

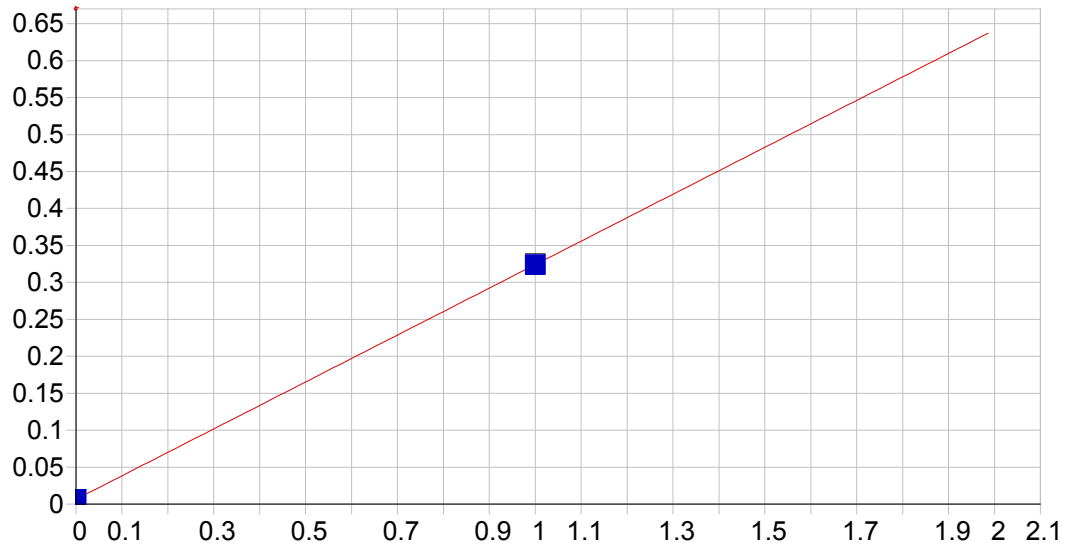


Na 589.592 { 57}

Date of Fit:	7/16/2018 16:43:33	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003383	Re-Slope:	1.000000
A1 (Gain):	0.350053	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.005929		
Predicted MQL:	0.019762		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00338	.001	1
S2	100.00	100.00	.000	.000	35.009	.086	1

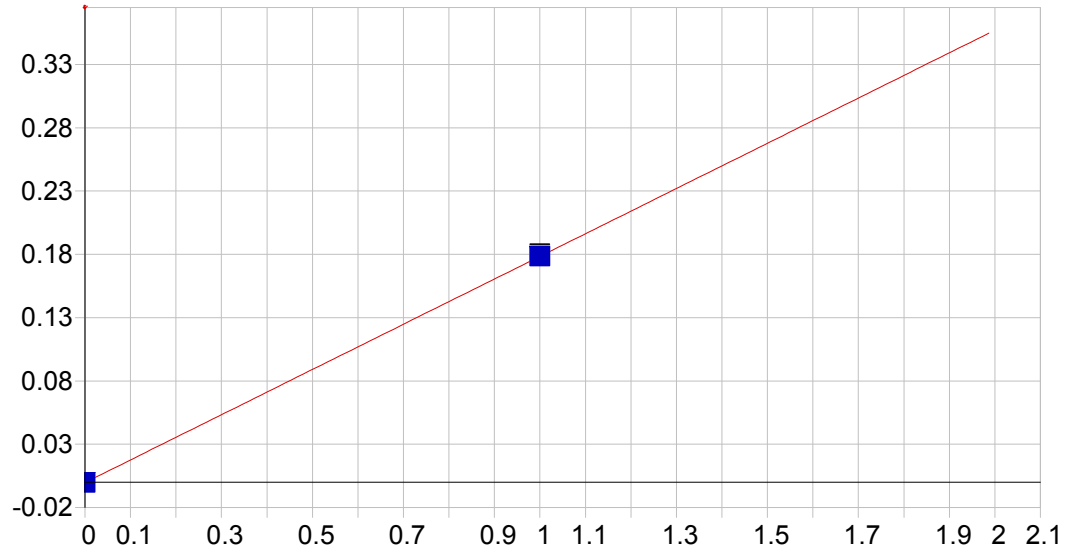


Ni 231.604 {446}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006503	Re-Slope:	1.000000
A1 (Gain):	0.317502	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001064		
Predicted MQL:	0.003545		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00650	.000	1
S1	1.0000	1.00000	.000	.000	.32433	.001	1



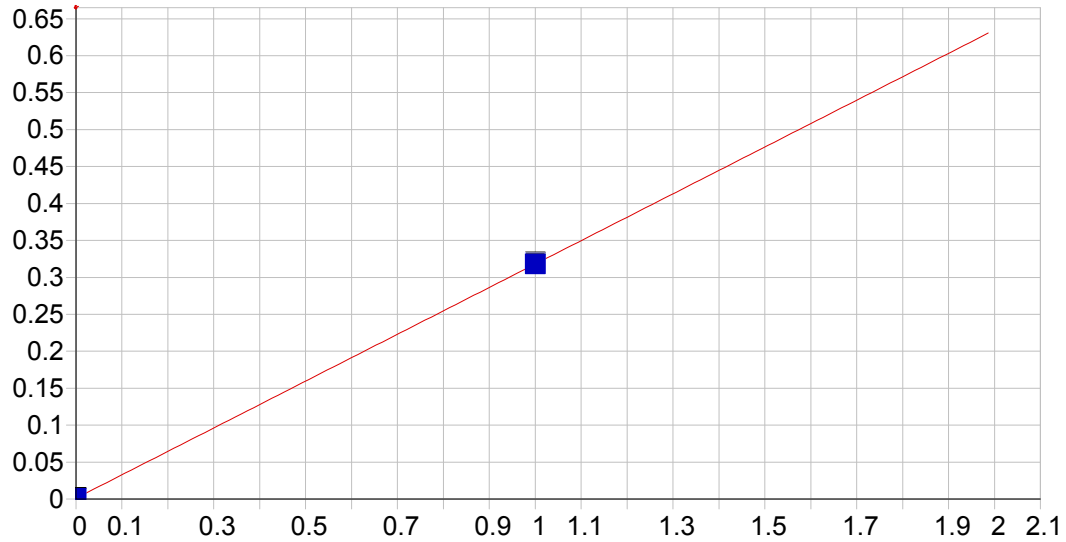
Pb 220.353 {453}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000303	Re-Slope:	1.000000
A1 (Gain):	0.178698	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002578		
Predicted MQL:	0.008594		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00030	.000	1
S1	1.0000	1.00000	.000	.000	.17910	.001	1

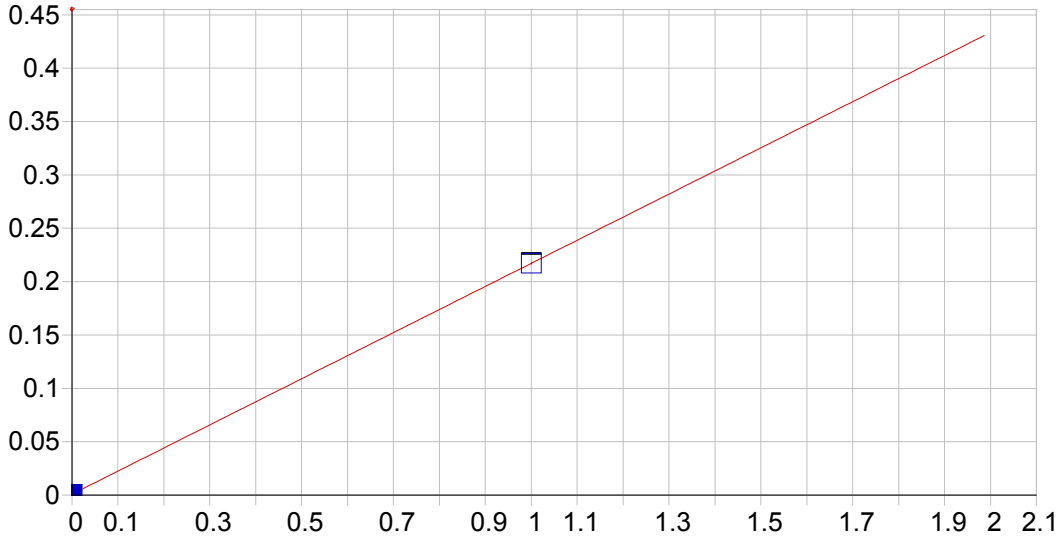


Sb 206.833 {463}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001182	Re-Slope:	1.000000
A1 (Gain):	0.316815	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001804		
Predicted MQL:	0.006014		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00118	.000	1
S1	1.0000	1.0000	.000	.000	.31983	.001	1

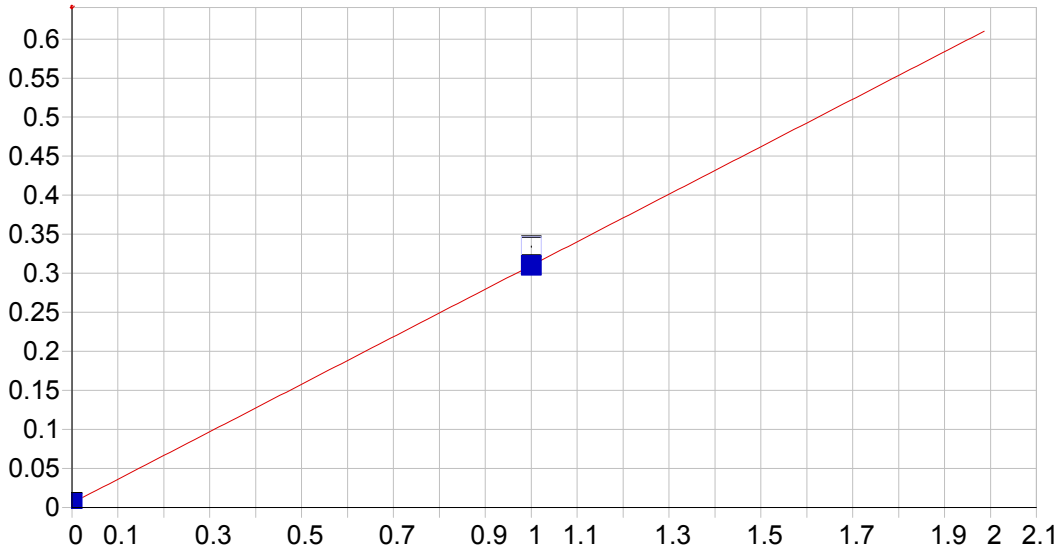


Se 196.090 {472}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000856	Re-Slope:	1.000000
A1 (Gain):	0.216330	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002539		
Predicted MQL:	0.008464		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00086	.000	1
S1	1.0000	1.0000	.000	.000	.21719	.001	1



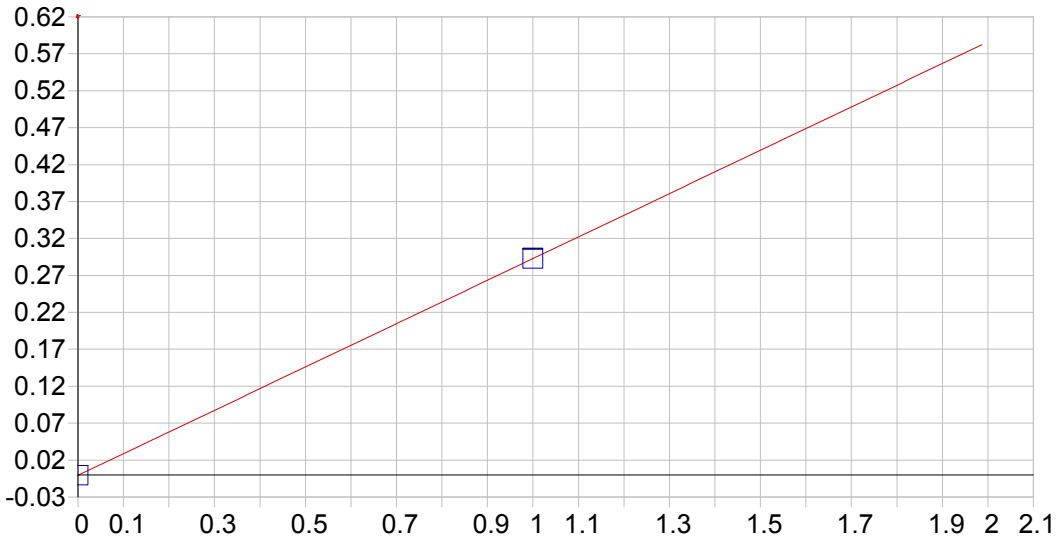
Si 212.412 {459}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005793	Re-Slope:	1.000000
A1 (Gain):	0.304211	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001432		
Predicted MQL:	0.004773		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00579	.001	1
S1	1.0000	1.0000	.000	.000	.33423	.001	1

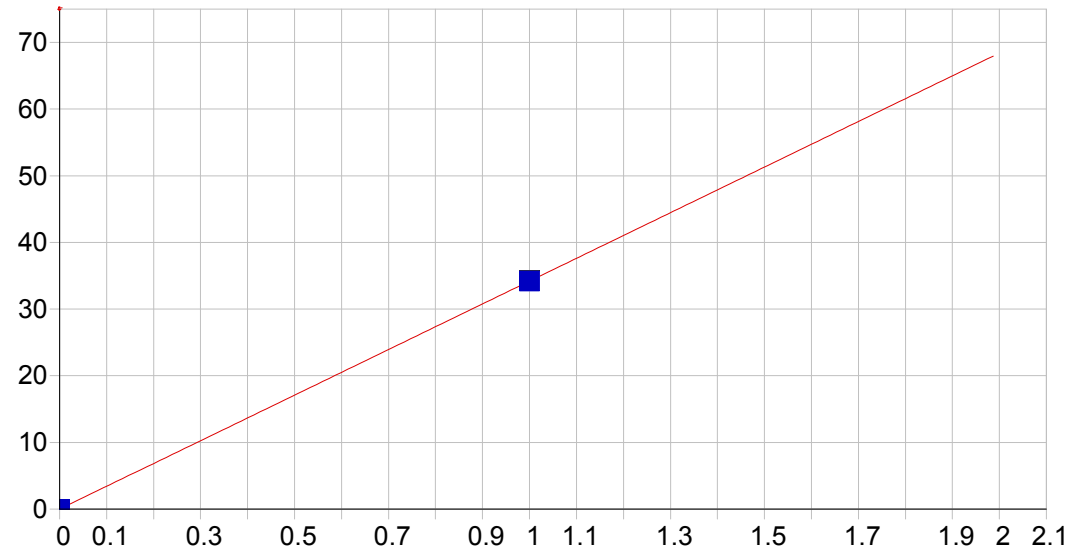


Sn 189.989 {477}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000648	Re-Slope:	1.000000
A1 (Gain):	0.293395	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001469		
Predicted MQL:	0.004895		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00065	.000	1
S1	1.0000	1.0000	.000	.000	.29275	.000	1

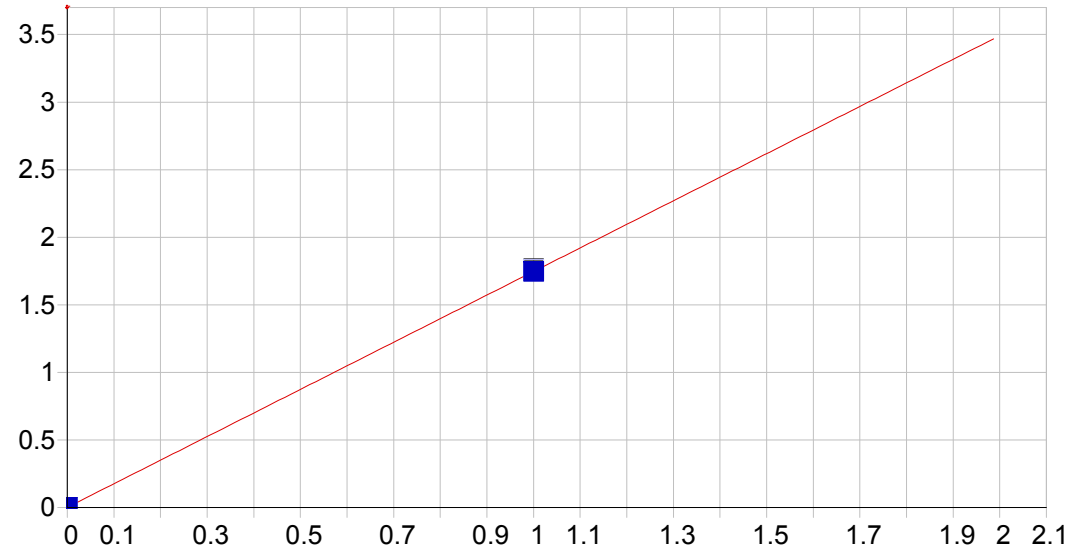


Sr 421.552 { 80}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001686	Re-Slope:	1.000000
A1 (Gain):	34.199636	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000016		
Predicted MQL:	0.000053		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00169	.001	1
S1	1.0000	1.0000	.000	.000	34.207	.060	1



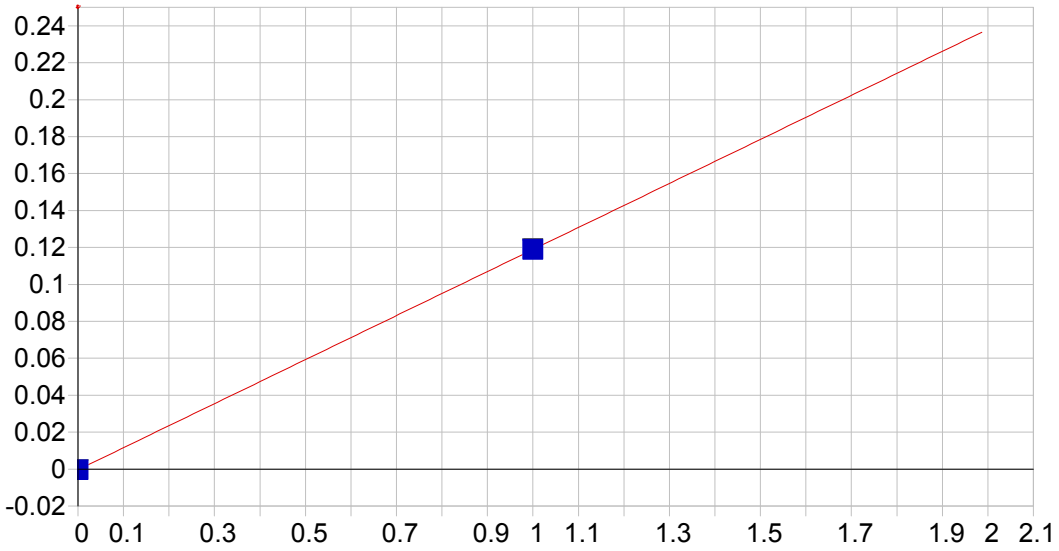
Ti 334.941 {101}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001406	Re-Slope:	1.000000
A1 (Gain):	1.744973	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000185		
Predicted MQL:	0.000617		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00141	.000	1
S1	1.0000	1.0000	.000	.000	1.7623	.003	1

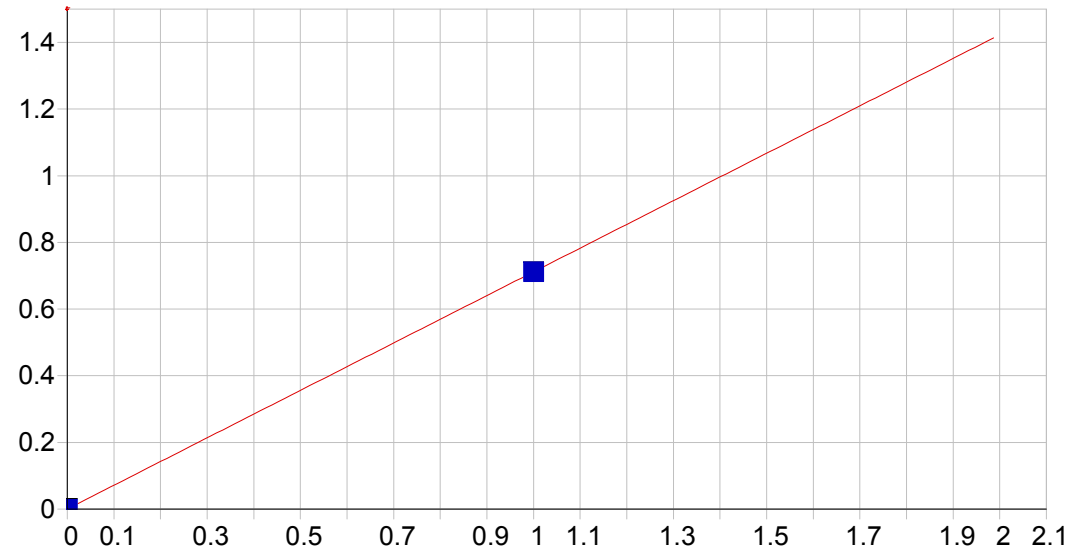


Tl 190.856 {477}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000351	Re-Slope:	1.000000
A1 (Gain):	0.119227	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001991		
Predicted MQL:	0.006636		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00035	.000	1
S1	1.0000	1.0000	.000	.000	.11915	.000	1

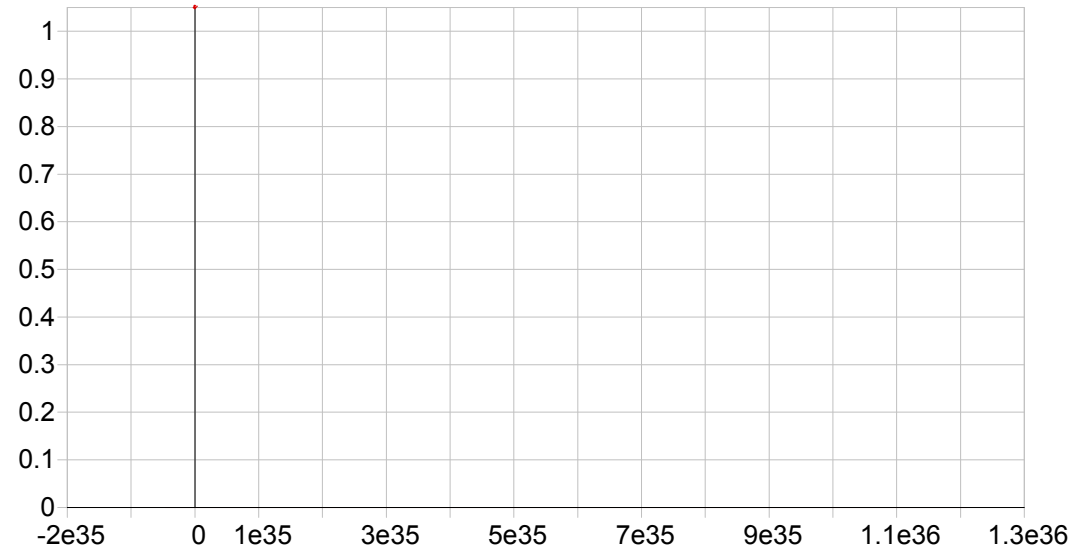


V 292.402 {115}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000445	Re-Slope:	1.000000
A1 (Gain):	0.711368	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000594		
Predicted MQL:	0.001979		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00044	.000	1
S1	1.0000	1.00000	.000	.000	.71173	.000	1



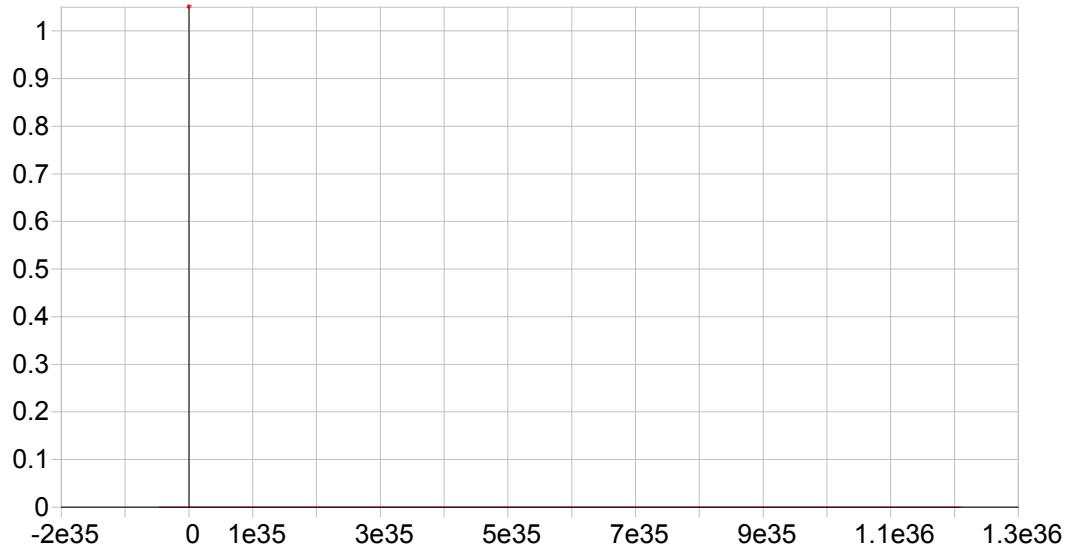
Y 224.306 {450}*

Date of Fit:	5/31/2018 15:53:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

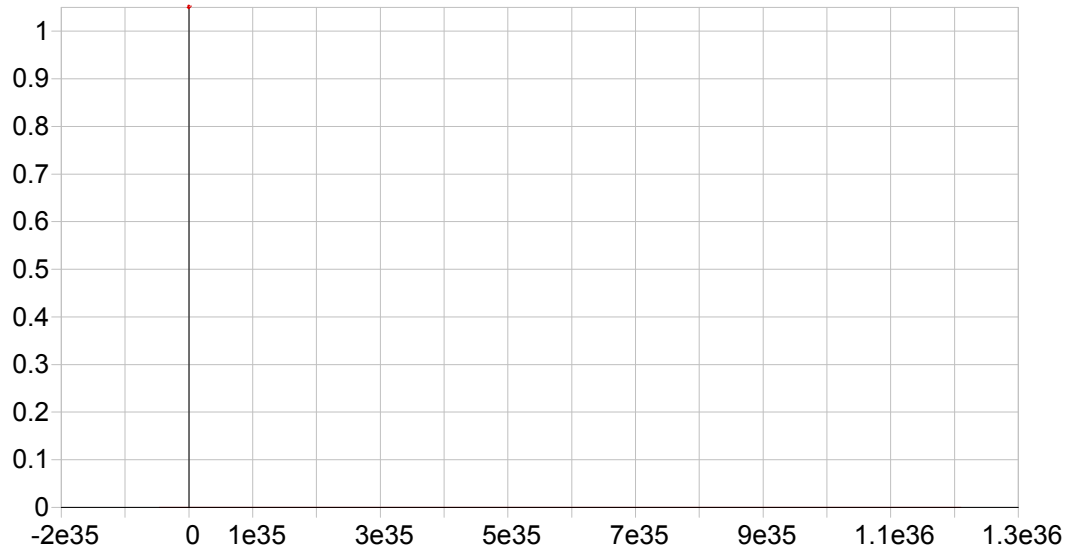
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 360.073 { 94}*

Date of Fit:	5/31/2018 15:53:17	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

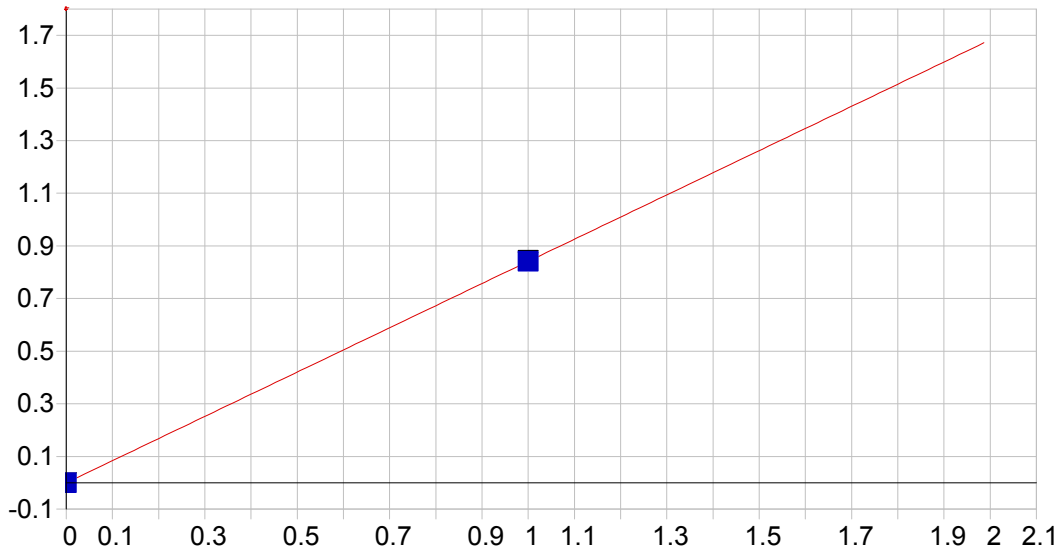


Y 371.030 { 91}*

Date of Fit:	5/31/2018 15:53:17	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Zn 206.200 {463}

Date of Fit:	7/16/2018 16:39:29	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000256	Re-Slope:	1.000000
A1 (Gain):	0.841575	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000421		
Predicted MQL:	0.001403		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00026	.000	1
S1	1.0000	1.0000	.000	.000	.84087	.003	1

Sample Name: Blank Acquired: 7/16/2018 16:31:33 Type: Cal
Method: P6071618A Mode: IR Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00036**	**.00195**	**-.00137**	**.01581**	**.01098**	**.00003**	**-.00035**
Stddev	.00036	.00032	.00012	.00055	.00090	.00036	.00008
%RSD	99.781	16.601	8.6754	3.4652	8.1798	1131.4	22.078
#1	-.00011	.00218	-.00128	.01620	.01162	-.00022	-.00040
#2	-.00061	.00172	-.00145	.01543	.01035	.00029	-.00030

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00425**	**.0013**	**.0625**	**-.00008**	**.00025**	**.01341**	**.00011**
Stddev	.00004	.0010	1.193	.00001	.00022	.00009	.00020
%RSD	1.0530	78.31	1909.	8.3484	89.833	.69993	184.87
#1	.00428	.0006	.9060	-.00008	.00009	.01348	-.00003
#2	.00421	.0020	-.7811	-.00008	.00041	.01334	.00026

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00173**	**-.0020**	**-.00001**	**.00021**	**-.00100**	**.00338**	**.00650**
Stddev	.00213	.0003	.00006	.00013	.00003	.00131	.00011
%RSD	123.21	16.94	545.04	62.357	2.8054	38.747	1.6433
#1	.00022	-.0018	-.00006	.00030	-.00098	.00246	.00643
#2	.00324	-.0023	.00003	.00012	-.00102	.00431	.00658

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00030**	**.00118**	**.00086**	**.00579**	**-.00065**	**.00169**	**.00141**
Stddev	.00006	.00037	.00000	.00054	.00006	.00057	.00010
%RSD	19.756	31.081	.22473	9.3145	9.7454	33.639	7.0911
#1	-.00035	.00144	.00085	.00541	-.00060	.00209	.00148
#2	-.00026	.00092	.00086	.00617	-.00069	.00128	.00134

Elem	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**-.00035**	**.00044**	**-.00026**
Stddev	.00016	.00004	.00003
%RSD	45.904	9.8688	10.221
#1	-.00046	.00048	-.00024
#2	-.00024	.00041	-.00027

Sample Name: Blank Acquired: 7/16/2018 16:31:33 Type: Cal
Method: P6071618A Mode: IR Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2221.4	1290.1	10208.	4321.2
Stddev	51.3	55.5	134.	44.0
%RSD	2.3106	4.2984	1.3161	1.0174
#1	2257.7	1329.3	10303.	4290.1
#2	2185.1	1250.8	10113.	4352.3

Sample Name: S1 Acquired: 7/16/2018 16:35:37 Type: Cal
Method: P6071618A Mode: IR Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	B_2089	Ba4554	Be2348	Bi2230	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.60809**	**.22483**	**1.1884**	**7.4187**	**.85621**	**.22936**	**3.049**	**.89699**
Stddev	.00015	.00006	.0020	.0020	.00177	.00090	.005	.00301
%RSD	.02511	.02873	.17005	.02714	.20693	.39275	.1591	.33532
#1	.60819	.22488	1.1869	7.4201	.85746	.22873	3.046	.89487
#2	.60798	.22478	1.1898	7.4173	.85496	.23000	3.053	.89912

Elem	Cr2677	Cu3247	Li6707	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.36537**	**1.3043**	**3.255**	**.49893**	**1.3942**	**.32433**	**.17910**	**.31983**
Stddev	.00076	.0005	.003	.00018	.0036	.00051	.00119	.00093
%RSD	.20736	.03562	.0911	.03704	.25928	.15590	.66170	.28969
#1	.36591	1.3046	3.253	.49880	1.3916	.32397	.17826	.31917
#2	.36483	1.3040	3.257	.49906	1.3967	.32468	.17994	.32048

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.21719**	**.33423**	**.29275**	**34.207**	**1.7623**	**.11915**	**.71173**	**.84087**
Stddev	.00055	.00081	.00042	.060	.0025	.00021	.00020	.00334
%RSD	.25183	.24139	.14320	.17667	.14331	.17438	.02801	.39751
#1	.21757	.33366	.29245	34.250	1.7605	.11930	.71187	.83851
#2	.21680	.33480	.29304	34.165	1.7641	.11900	.71159	.84323

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2094.4**	**1160.0**	**9240.6**	**4381.5**
Stddev	5.8	2.6	14.0	12.3
%RSD	.27847	.22732	.15154	.27998
#1	2098.6	1161.9	9250.5	4372.9
#2	2090.3	1158.1	9230.7	4390.2

Sample Name: S2 Acquired: 7/16/2018 16:39:34 Type: Cal
Method: P6071618A Mode: IR Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4862	9.1252	.45009	9.2233	1.2209	35.009
Stddev	.0023	.0213	.00186	.0177	.0021	.086
%RSD	.09247	.23317	.41289	.19172	.17407	.24688
#1	2.4878	9.1403	.45141	9.2358	1.2224	35.070
#2	2.4846	9.1102	.44878	9.2108	1.2194	34.948

Int. Std.	Y_3710
Units	Cts/S
Avg	4268.6
Stddev	8.2
%RSD	.19210
#1	4262.8
#2	4274.4

Sample Name: CE Acquired: 7/16/2018 16:43:38 Type: Cal
Method: P6071618A Mode: IR Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ce4040
Units	Cts/S
Avg	2211.
Stddev	11.
%RSD	.4785
#1	2219.
#2	2204.

Sample Name: S1 Acquired: 7/16/2018 16:47:43 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment: P6071618B

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.004681**	**-.016772**	**1.002915**	**.9970256**	**.9924568**	**.9957957**
Stddev	.002414	.004668	.003577	.0018200	.0021998	.0011581
%RSD	.2402384	27.82951	.3566894	.1825422	.2216525	.1162994
#1	1.002974	-.013471	1.005444	.9957386	.9909014	.9966146
#2	1.006387	-.020072	1.000385	.9983125	.9940123	.9949768
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.002182**	**.0034666**	**.9981111**	F **-.008399**	**.9963703**	**.9878421**
Stddev	.000931	.0027838	.0015443	.006894	.0017008	.0057843
%RSD	.0928573	80.30323	.1547239	82.08002	.1707015	.5855474
#1	1.002840	.0014982	.9970191	-.013274	.9951677	.9837520
#2	1.001524	.0054350	.9992031	-.003524	.9975730	.9919322
Check ?	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				1.000000		
Range				-5.00000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9989583**	**-.005136**	**-.004341**	**.9944809**	**.0057808**	**.9937213**
Stddev	.0001745	.003148	.014453	.0030418	.0015941	.0018606
%RSD	.0174680	61.29502	332.9743	.3058652	27.57573	.1872394
#1	.9988349	-.002910	.005879	.9923301	.0046536	.9924057
#2	.9990817	-.007362	-.014560	.9966318	.0069080	.9950370
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass
Value						
Range						

Sample Name: S1 Acquired: 7/16/2018 16:47:43 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment: P6071618B

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.001553	.0251505	.9953187	1.005127	.9956677	1.001345
Stddev	.000972	.0017017	.0026864	.000662	.0003281	.001905
%RSD	.0970133	6.766014	.2699027	.0659068	.0329559	.1902571
#1	1.000866	.0263537	.9934192	1.004658	.9958997	.999997
#2	1.002240	.0239472	.9972183	1.005595	.9954356	1.002692
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9960003	1.001913	1.004574	.9977331	.9915742	1.006647
Stddev	.0031380	.003009	.004047	.0014105	.0036525	.002858
%RSD	.3150617	.3002980	.4028567	.1413750	.3683554	.2838996
#1	.9982193	.999786	1.001712	.9967356	.9889915	1.004626
#2	.9937814	1.004041	1.007435	.9987305	.9941570	1.008668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.9933150
Stddev	.0038004
%RSD	.3825927
#1	.9906278
#2	.9960023
Check ?	Chk Pass
Value	
Range	

Sample Name: S1 Acquired: 7/16/2018 16:47:43 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment: P6071618B

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2098.113	1159.060	9207.177	4398.016
Stddev	3.250	.045	18.144	.586
%RSD	.1548874	.0038779	.1970596	.0133159
#1	2100.411	1159.028	9220.006	4398.430
#2	2095.815	1159.092	9194.347	4397.602

Sample Name: S2 Acquired: 7/16/2018 16:51:39 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000850**	**99.96370**	**.0010746**	**-.003708**	**-.000233**	**.0002391**	**.0011460**
Stddev	.000458	.14373	.0023118	.000454	.000101	.0000159	.0025423
%RSD	53.86323	.1437795	215.1277	12.25137	43.37120	6.658465	221.8341
#1	-.001174	100.0653	.0027093	-.003387	-.000304	.0002504	-.000652
#2	-.000526	99.8621	-.000560	-.004029	-.000161	.0002279	.002944
Check ?	None	Chk Pass	None	None	None	None	None
Value							
Range							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**100.4013**	**.0005983**	**.0226932**	**.0001645**	**.0000683**	**.0012063**	**100.0758**
Stddev	.2726	.0002482	.0139486	.0002822	.0002025	.0000321	.2806
%RSD	.2715275	41.49431	61.46590	171.5381	296.6935	2.663533	.2804238
#1	100.5941	.0004227	.0128301	-.000035	.0002115	.0012291	100.2743
#2	100.2085	.0007738	.0325563	.000364	-.000075	.0011836	99.8774
Check ?	Chk Pass	None	None	None	None	None	Chk Pass
Value							
Range							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**99.81557**	**-.000632**	**100.0647**	**.0005674**	**.0002590**	**99.96801**	**.0031561**
Stddev	.09522	.000131	.3018	.0002917	.0005389	.07126	.0004424
%RSD	.0953941	20.75196	.3015823	51.41324	208.0819	.0712867	14.01856
#1	99.74824	-.000725	100.2781	.0007736	.0006400	99.91761	.0028432
#2	99.88290	-.000540	99.8513	.0003611	-.000122	100.0184	.0034689
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	None
Value							
Range							

Sample Name: S2 Acquired: 7/16/2018 16:51:39 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005376	.0022618	.0025587	-.002533	.0033523	.0011552	.0004185
Stddev	.0011080	.0019246	.0008789	.000619	.0012094	.0000181	.0000443
%RSD	206.0852	85.09117	34.34857	24.43014	36.07627	1.567136	10.57986
#1	.0013211	.0036227	.0019373	-.002971	.0024971	.0011680	.0003872
#2	-.000246	.0009009	.0031802	-.002096	.0042074	.0011424	.0004498
Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0012502	-.000529	.0005626
Stddev	.0033215	.000703	.0009055
%RSD	265.6741	132.8544	160.9521
#1	-.001098	-.001026	.0012029
#2	.003599	-.000032	-.000078
Check ?	None	None	None
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1798.221	1099.432	8588.540	4264.525
Stddev	2.349	5.055	4.504	13.824
%RSD	.1306365	.4598080	.0524460	.3241715
#1	1799.882	1103.007	8591.725	4254.750
#2	1796.560	1095.857	8585.355	4274.300

Sample Name: ICV Acquired: 7/16/2018 16:55:39 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4013126**	**40.37096**	**.4043410**	**.4037512**	**.3927802**	**.3963882**
Stddev	.0000948	.23812	.0034523	.0032043	.0027151	.0025075
%RSD	.0236185	.5898196	.8538096	.7936239	.6912629	.6326007
#1	.4012456	40.53934	.4018999	.4014854	.3947001	.3981613
#2	.4013797	40.20259	.4067822	.4060170	.3908603	.3946151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4108682**	**20.74501**	**.4045068**	F **-.034669**	**.4043236**	**.3905058**
Stddev	.0021703	.19915	.0004491	.006872	.0017168	.0000132
%RSD	.5282176	.9599662	.1110286	19.82106	.4246107	.0033860
#1	.4093336	20.88583	.4041892	-.029810	.4055376	.3905152
#2	.4124028	20.60420	.4048243	-.039528	.4031096	.3904965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.4000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4100515**	**20.50848**	**39.43937**	**3.482713**	**20.08736**	**3.885999**
Stddev	.0002601	.19948	.27435	.019602	.19019	.030325
%RSD	.0634252	.9726747	.6956163	.5628368	.9468030	.7803681
#1	.4102354	20.64953	39.63337	3.496574	20.22184	3.907442
#2	.4098676	20.36743	39.24538	3.468852	19.95287	3.864556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICV Acquired: 7/16/2018 16:55:39 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3899107	20.35928	.4018030	.4111076	.3881994	.3989542
Stddev	.0002626	.14164	.0010982	.0026339	.0017033	.0042165
%RSD	.0673484	.6957201	.2733073	.6406749	.4387806	1.056879
#1	.3897250	20.45944	.4025796	.4092452	.3869950	.3959727
#2	.3900964	20.25913	.4010265	.4129700	.3894039	.4019356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3776906	.4152261	.4054775	.4024936	.4007717	4.026131
Stddev	.0011668	.0004687	.0004907	.0003443	.0035485	.001767
%RSD	.3089248	.1128891	.1210282	.0855501	.8854173	.0438789
#1	.3768655	.4155575	.4058245	.4022501	.4032809	4.024882
#2	.3785156	.4148946	.4051304	.4027371	.3982625	4.027380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.4098071
Stddev	.0024876
%RSD	.6070185
#1	.4115661
#2	.4080481
Check ?	Chk Pass
Value	
Range	

Sample Name: ICV Acquired: 7/16/2018 16:55:39 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1966.791	1141.600	8942.710	4375.441
Stddev	2.231	6.332	9.336	30.840
%RSD	.1134497	.5546554	.1043973	.7048436
#1	1968.369	1146.078	8936.108	4353.634
#2	1965.213	1137.123	8949.311	4397.249

Sample Name: ICB Acquired: 7/16/2018 16:59:30 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000232**	**-.016674**	**-.000088**	**-.004833**	**-.000343**	**-.000220**
Stddev	.000209	.018147	.000419	.000053	.000010	.000227
%RSD	89.97686	108.8316	475.8451	1.094109	2.772146	102.9906
#1	-.000379	-.029506	.000208	-.004870	-.000336	-.000380
#2	-.000084	-.003842	-.000384	-.004795	-.000350	-.000060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003919**	**-.000684**	**.0002446**	F **-.006146**	**.0001249**	**.0008136**
Stddev	.0003717	.002338	.0001003	.012987	.0000435	.0002215
%RSD	94.83341	341.7403	41.01579	211.3193	34.83453	27.21982
#1	.0001291	-.002337	.0003156	-.015329	.0001556	.0009702
#2	.0006547	.000969	.0001737	.003037	.0000941	.0006570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001170**	**.0328648**	**.0092804**	**.0005879**	**.0023248**	**.0002758**
Stddev	.0003040	.0155563	.0038240	.0004463	.0054414	.0000850
%RSD	259.8659	47.33419	41.20542	75.90304	234.0525	30.82552
#1	.0003319	.0218648	.0065764	.0009035	.0061725	.0003359
#2	-.000098	.0438648	.0119844	.0002724	-.001523	.0002157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICB Acquired: 7/16/2018 16:59:30 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002209**	**.0255015**	**.0001198**	**-.002243**	**.0020791**	**.0002707**
Stddev	.0001977	.0006753	.0005294	.000791	.0006711	.0022274
%RSD	89.50066	2.647976	441.8347	35.27157	32.28065	822.6948
#1	.0000811	.0250240	.0004941	-.001684	.0025536	-.001304
#2	.0003606	.0259790	-.000255	-.002803	.0016045	.001846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003119**	**.0006977**	**.0000023**	**-.000276**	**-.000437**	**.0004190**
Stddev	.000105	.0011376	.0000001	.000042	.000598	.0001607
%RSD	3.356764	163.0557	6.064799	15.21640	136.9942	38.35536
#1	-.003193	-.000107	.0000024	-.000305	-.000014	.0005327
#2	-.003045	.001502	.0000022	-.000246	-.000859	.0003054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	**-.000035**
Stddev	.000129
%RSD	372.6465
#1	-.000126
#2	.000057
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICB Acquired: 7/16/2018 16:59:30 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2109.839	1165.853	9188.730	4398.156
Stddev	6.048	.561	11.387	1.186
%RSD	.2866459	.0481383	.1239238	.0269563
#1	2105.562	1166.250	9196.782	4398.994
#2	2114.115	1165.456	9180.679	4397.317

Sample Name: ICVL Acquired: 7/16/2018 17:03:33 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048205**	**.1849317**	**.0104587**	**.0440930**	**.0096468**	**.0038545**
Stddev	.0001825	.0061246	.0007331	.0002453	.0001407	.0002365
%RSD	3.786437	3.311789	7.009365	.5564225	1.458007	6.135966
#1	.0049496	.1806010	.0099403	.0439195	.0095473	.0036873
#2	.0046915	.1892624	.0109770	.0442665	.0097462	.0040218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0506205**	**.2032946**	**.0017940**	F **.0009889**	**.0049653**	**.0094687**
Stddev	.0021561	.0006400	.0000429	.0055943	.0000772	.0000304
%RSD	4.259441	.3148290	2.389080	565.6854	1.553754	.3213132
#1	.0521451	.2028420	.0017637	.0049447	.0050199	.0094902
#2	.0490958	.2037471	.0018243	-.002967	.0049108	.0094472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0098347**	**.2205800**	**.4787887**	**.0100224**	**.0838475**	**.0099626**
Stddev	.0000420	.0119759	.0208096	.0000792	.0127631	.0000084
%RSD	.4268628	5.429281	4.346310	.7902999	15.22181	.0847130
#1	.0098050	.2121118	.4935034	.0099664	.0748226	.0099685
#2	.0098644	.2290483	.4640741	.0100784	.0928724	.0099566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICVL Acquired: 7/16/2018 17:03:33 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098497	1.021796	.0116323	.0048446	.0174201	.0108590
Stddev	.0001515	.005873	.0009703	.0001720	.0003250	.0027743
%RSD	1.538251	.5747898	8.341177	3.549872	1.865657	25.54846
#1	.0099569	1.025949	.0123184	.0047230	.0176499	.0128207
#2	.0097426	1.017643	.0109462	.0049662	.0171903	.0088973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1869785	.0397724	.0052110	.0046191	.0104968	.0048922
Stddev	.0006006	.0004645	.0000095	.0001035	.0009834	.0000323
%RSD	.3211876	1.167950	.1818876	2.241626	9.368774	.6598362
#1	.1874032	.0394440	.0052043	.0046923	.0098014	.0049150
#2	.1865538	.0401009	.0052177	.0045459	.0111922	.0048694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0200470
Stddev	.0000738
%RSD	.3683219
#1	.0199948
#2	.0200992
Check ?	Chk Pass
Value	
Range	

Sample Name: ICVL Acquired: 7/16/2018 17:03:33 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2130.706	1179.338	9201.700	4407.575
Stddev	5.455	1.583	13.262	1.635
%RSD	.2560245	.1342267	.1441241	.0370901
#1	2134.563	1180.458	9211.078	4406.419
#2	2126.849	1178.219	9192.323	4408.731

Sample Name: CRI Acquired: 7/16/2018 17:07:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0102341**	**.3717037**	**.0178482**	**.0937036**	**.0194652**	**.0075477**
Stddev	.0002704	.0155272	.0021950	.0001977	.0000421	.0003745
%RSD	2.642684	4.177293	12.29821	.2110315	.2164569	4.961118
#1	.0104253	.3607244	.0194003	.0935638	.0194354	.0078125
#2	.0100428	.3826831	.0162961	.0938434	.0194950	.0072829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0978309**	**.4008822**	**.0042112**	F **-.000777**	**.0101938**	**.0197450**
Stddev	.0005722	.0047230	.0002415	.001099	.0001198	.0002359
%RSD	.5849419	1.178161	5.734628	141.4214	1.175555	1.194680
#1	.0974263	.3975425	.0043819	.000000	.0101091	.0199118
#2	.0982355	.4042219	.0040404	-.001554	.0102786	.0195782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0100000		
Range				-50.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0194717**	**.3821128**	**.9565422**	**.0210029**	**.1873952**	**.0200571**
Stddev	.0000037	.0395486	.0188159	.0000143	.0001823	.0000338
%RSD	.0191934	10.34997	1.967073	.0682003	.0973039	.1685228
#1	.0194744	.3541478	.9698471	.0210130	.1872663	.0200332
#2	.0194691	.4100779	.9432374	.0209928	.1875241	.0200810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CRI Acquired: 7/16/2018 17:07:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196518	1.999161	.0206925	.0103722	.0372412	.0221452
Stddev	.0000271	.000011	.0010913	.0012122	.0018446	.0016173
%RSD	.1381502	.0005744	5.274079	11.68676	4.953046	7.303070
#1	.0196710	1.999169	.0199208	.0095151	.0359369	.0232888
#2	.0196326	1.999153	.0214641	.0112293	.0385456	.0210017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3750220	.0794003	.0103138	.0094817	.0179571	.0099958
Stddev	.0003800	.0003551	.0000241	.0000419	.0008116	.0002586
%RSD	.1013189	.4472151	.2338690	.4422063	4.519876	2.586839
#1	.3747533	.0796514	.0103309	.0095114	.0185310	.0098130
#2	.3752907	.0791493	.0102968	.0094521	.0173832	.0101787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0397069
Stddev	.0002435
%RSD	.6133153
#1	.0395347
#2	.0398791
Check ?	Chk Pass
Value	
Range	

Sample Name: CRI Acquired: 7/16/2018 17:07:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2123.140	1174.705	9207.800	4422.144
Stddev	1.110	4.588	5.308	6.421
%RSD	.0522954	.3905922	.0576497	.1452074
#1	2123.925	1177.949	9211.554	4426.685
#2	2122.355	1171.461	9204.047	4417.604

Sample Name: LRC Acquired: 7/16/2018 17:11:39 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008573**	**.0117171**	**5.133835**	**5.048947**	**4.900337**	**4.919921**
Stddev	.0002060	.0091007	.012593	.021842	.003939	.005529
%RSD	24.02365	77.67056	.2452898	.4326112	.0803752	.1123751
#1	.0007117	.0052819	5.124931	5.033502	4.903122	4.916011
#2	.0010030	.0181523	5.142740	5.064392	4.897552	4.923830
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.941700**	**.0278659**	**4.961706**	F **-.036581**	**5.026388**	**4.883157**
Stddev	.016164	.0001197	.019494	.012174	.015603	.006539
%RSD	.3270985	.4295901	.3928834	33.27943	.3104302	.1339132
#1	4.930270	.0277813	4.947922	-.045190	5.015355	4.887781
#2	4.953130	.0279506	4.975490	-.027973	5.037421	4.878533
Check ?	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				5.000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.969260**	**.0176258**	**-.001790**	**4.902698**	**-.000314**	**4.910425**
Stddev	.006679	.0114521	.007507	.006212	.015691	.006259
%RSD	.1344023	64.97313	419.4639	.1267122	4994.627	.1274600
#1	4.964538	.0095280	-.007098	4.907091	-.011410	4.906000
#2	4.973983	.0257237	.003518	4.898305	.010781	4.914851
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass
Value						
Range						

Sample Name: LRC Acquired: 7/16/2018 17:11:39 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.111242**	**.0302294**	**4.986955**	**5.127140**	**5.049141**	**4.944231**
Stddev	.017603	.0000941	.016818	.022147	.016777	.016403
%RSD	.3443973	.3113198	.3372403	.4319639	.3322681	.3317604
#1	5.098795	.0301629	4.975063	5.111479	5.037278	4.932632
#2	5.123690	.0302960	4.998847	5.142801	5.061004	4.955830
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **5.730009**	**5.071015**	**4.657531**	**4.937117**	**4.985871**	**5.108220**
Stddev	.034993	.017326	.001600	.003749	.015860	.000851
%RSD	.6107008	.3416732	.0343547	.0759373	.3181069	.0166573
#1	5.705266	5.058764	4.656399	4.934465	4.974656	5.107618
#2	5.754754	5.083267	4.658662	4.939768	4.997086	5.108821
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	5.000000					
Range	10.00000%					

Elem	Zn2062
Units	ppm
Avg	**5.006612**
Stddev	.024670
%RSD	.4927512
#1	4.989168
#2	5.024056
Check ?	Chk Pass
Value	
Range	

Sample Name: LRC Acquired: 7/16/2018 17:11:39 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2062.135	1128.860	9128.345	4394.458
Stddev	1.885	1.631	10.754	2.790
%RSD	.0914112	.1444775	.1178047	.0634903
#1	2063.468	1130.013	9135.949	4396.431
#2	2060.802	1127.706	9120.741	4392.485

Sample Name: ICSA Acquired: 7/16/2018 17:16:32 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009291**	**489.6532**	**-.001625**	**-.004334**	**-.000111**	**.0007088**
Stddev	.0003846	1.0783	.005870	.000873	.000127	.0001435
%RSD	41.39185	.2202159	361.2615	20.14589	113.9625	20.24301
#1	.0012010	488.8907	-.005775	-.003717	-.000201	.0008103
#2	.0006572	490.4156	.002526	-.004951	-.000022	.0006073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002442**	**477.7756**	**.0011011**	F **.0473364**	**-.000739**	**.0020736**
Stddev	.001820	4.6954	.0000347	.0064433	.000081	.0001125
%RSD	74.53588	.9827717	3.150671	13.61168	10.96192	5.426495
#1	-.003729	474.4554	.0011257	.0518925	-.000682	.0021532
#2	-.001155	481.0958	.0010766	.0427803	-.000796	.0019941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009927**	**187.2611**	**-.025131**	**.0000790**	**505.1284**	**.0001419**
Stddev	.0005487	.6027	.007544	.0004193	1.5453	.0002513
%RSD	55.27012	.3218622	30.01819	530.4904	.3059160	177.1125
#1	.0013806	186.8349	-.019797	.0003755	504.0358	-.000036
#2	.0006047	187.6873	-.030466	-.000217	506.2211	.000320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSA Acquired: 7/16/2018 17:16:32 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000502**	**.0278570**	**.0039949**	F **-.013926**	**.0026791**	**.0044694**
Stddev	.000693	.0023507	.0007377	.005473	.0007090	.0026087
%RSD	138.0809	8.438322	18.46492	39.30223	26.46390	58.36898
#1	-.000992	.0261948	.0045165	-.010056	.0021778	.0063140
#2	-.000012	.0295191	.0034733	-.017796	.0031805	.0026247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020097**	**.0074573**	**.0046480**	**-.002023**	**-.001336**	**.0003803**
Stddev	.0014202	.0003900	.0000267	.000093	.001621	.0000475
%RSD	70.66728	5.230359	.5742116	4.615612	121.2967	12.47430
#1	.0030139	.0071815	.0046669	-.002089	-.000190	.0004139
#2	.0010055	.0077331	.0046292	-.001957	-.002483	.0003468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	**.0034724**
Stddev	.0006188
%RSD	17.82058
#1	.0039100
#2	.0030348
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: ICSA Acquired: 7/16/2018 17:16:32 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1668.711	1097.289	8114.622	4149.389
Stddev	39.450	30.745	2.870	14.953
%RSD	2.364083	2.801913	.0353740	.3603559
#1	1640.816	1075.549	8112.593	4159.962
#2	1696.607	1119.029	8116.652	4138.816

Sample Name: ICSAB Acquired: 7/16/2018 17:20:37 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2191012**	**489.4006**	**.0961551**	**-.005426**	**.4805895**	**.4980856**
Stddev	.0012024	2.1474	.0073466	.000131	.0013972	.0011108
%RSD	.5487629	.4387745	7.640316	2.406664	.2907274	.2230039
#1	.2182510	487.8822	.0909603	-.005334	.4796016	.4973002
#2	.2199514	490.9190	.1013499	-.005519	.4815775	.4988711
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000579**	**479.2352**	**1.001906**	F **.0576026**	**.5090621**	**.4640250**
Stddev	.0001729	3.6223	.001421	.0162927	.0025162	.0028870
%RSD	298.6781	.7558420	.1418493	28.28462	.4942795	.6221729
#1	.0001801	476.6739	1.000901	.0460820	.5072829	.4619836
#2	-.000064	481.7965	1.002911	.0691233	.5108413	.4660665
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.2000000		
Range				-20.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5549007**	**187.5801**	**-.027279**	**.0001182**	**506.0720**	**.4590336**
Stddev	.0018922	.9311	.006777	.0001598	2.2959	.0012368
%RSD	.3409937	.4963903	24.84419	135.1306	.4536758	.2694375
#1	.5562386	186.9217	-.022487	.0000053	504.4485	.4581591
#2	.5535627	188.2385	-.032071	.0002312	507.6955	.4599082
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICSAB Acquired: 7/16/2018 17:20:37 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001647	.0210900	.9874733	.0402998	.5526793	.0438757
Stddev	.000401	.0037885	.0061309	.0023584	.0056618	.0032599
%RSD	24.31696	17.96364	.6208666	5.852057	1.024427	7.429793
#1	-.001931	.0237689	.9831381	.0419674	.5486758	.0415707
#2	-.001364	.0184111	.9918085	.0386322	.5566828	.0461808
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010450	.0071351	.0044696	-.003072	.0943281	.4976372
Stddev	.0007281	.0017280	.0000046	.000353	.0040652	.0013484
%RSD	69.67563	24.21798	.1024366	11.49439	4.309588	.2709640
#1	.0015599	.0059132	.0044664	-.002823	.0972026	.4966837
#2	.0005302	.0083569	.0044728	-.003322	.0914536	.4985907
Check ?	None	None	None	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.9939107
Stddev	.0039291
%RSD	.3953176
#1	.9911324
#2	.9966890
Check ?	Chk Pass
Value	
Range	

Sample Name: ICSAB Acquired: 7/16/2018 17:20:37 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1642.643	1076.615	8147.883	4157.219
Stddev	2.480	.336	9.902	14.081
%RSD	.1509476	.0311690	.1215235	.3387196
#1	1644.396	1076.853	8140.882	4167.176
#2	1640.889	1076.378	8154.884	4147.262

Sample Name: AL Acquired: 7/16/2018 17:24:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001642**	F **477.7294**	**-.000307**	**-.004915**	**.0000762**	**-.000236**
Stddev	.0003524	.4416	.002475	.001105	.0000857	.000058
%RSD	214.5995	.0924470	805.3643	22.49101	112.5362	24.60014
#1	.0004134	477.4171	.001443	-.005697	.0001368	-.000195
#2	-.000085	478.0417	-.002057	-.004133	.0000156	-.000277
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.1000000				
Low Limit		-.100000				

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001739**	**.0662847**	**.0004373**	**-.001340**	**.0004172**	**.0011997**
Stddev	.000103	.0034748	.0000468	.000298	.0000231	.0001741
%RSD	5.897329	5.242192	10.69857	22.23468	5.528349	14.50887
#1	-.001811	.0687418	.0004042	-.001551	.0004009	.0013228
#2	-.001666	.0638277	.0004704	-.001130	.0004335	.0010766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007101**	**.0185798**	**-.012140**	**.0002870**	**.0312223**	**.0018719**
Stddev	.0000463	.0270505	.008716	.0004103	.0251176	.0001877
%RSD	6.522553	145.5906	71.79501	142.9264	80.44769	10.02713
#1	.0006773	-.000548	-.005977	.0005771	.0489832	.0020046
#2	.0007428	.037707	-.018303	-.000003	.0134615	.0017392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: AL Acquired: 7/16/2018 17:24:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000443**	**.0864817**	**-.000152**	F **-.014772**	**-.001316**	**.0031868**
Stddev	.000182	.0012171	.000674	.000300	.002409	.0028752
%RSD	41.14607	1.407343	442.9045	2.028016	183.0447	90.22303
#1	-.000314	.0856211	-.000629	-.014560	-.003020	.0011537
#2	-.000572	.0873424	.000325	-.014984	.000387	.0052198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0025000		
Low Limit				-.002500		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004919**	**.0045310**	**.0000791**	**.0010049**	**.0022395**	**.0004135**
Stddev	.000736	.0027049	.0000135	.0000298	.0024440	.0000985
%RSD	14.96620	59.69620	17.06962	2.966496	109.1348	23.81738
#1	-.004398	.0064437	.0000695	.0009838	.0039677	.0003439
#2	-.005440	.0026184	.0000886	.0010259	.0005113	.0004832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	**.0037596**
Stddev	.0002192
%RSD	5.829592
#1	.0036046
#2	.0039146
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: AL Acquired: 7/16/2018 17:24:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1962.025	1235.465	8876.316	4474.646
Stddev	1.924	3.582	11.224	2.272
%RSD	.0980767	.2898938	.1264452	.0507797
#1	1963.385	1237.997	8868.379	4473.039
#2	1960.664	1232.932	8884.252	4476.253

Sample Name: FE Acquired: 7/16/2018 17:28:40 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003009	.0265681	.0026977	-.007357	.0003199	.0006368
Stddev	.0000783	.0214270	.0012452	.000264	.0000876	.0004031
%RSD	26.01286	80.64927	46.15606	3.590339	27.39213	63.31123
#1	.0002455	.0417192	.0018173	-.007170	.0003819	.0009218
#2	.0003562	.0114169	.0035782	-.007543	.0002580	.0003517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000546	.0053725	.0002951	F .0313284	-.001201	.0021529
Stddev	.003304	.0015311	.0000188	.0104394	.000277	.0009382
%RSD	604.7771	28.49821	6.376455	33.32251	23.08773	43.57750
#1	.001790	.0042899	.0002818	.0239466	-.001005	.0014895
#2	-.002883	.0064552	.0003085	.0387101	-.001398	.0028163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0025000		
Low Limit				-.002500		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000678	F 209.9168	-.041231	-.000170	-.000547	-.002233
Stddev	.000153	.4517	.004021	.000079	.003932	.000163
%RSD	22.56744	.2151630	9.751426	46.56111	718.7142	7.299454
#1	-.000570	209.5974	-.044074	-.000227	.002233	-.002118
#2	-.000786	210.2362	-.038388	-.000114	-.003327	-.002349
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.1000000				
Low Limit		-.100000				

Sample Name: FE Acquired: 7/16/2018 17:28:40 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002092	-.004681	.0003495	F -.002951	.0017216	.0015463
Stddev	.0000362	.002086	.0005305	.001162	.0014627	.0001926
%RSD	17.29023	44.55774	151.7828	39.36490	84.96419	12.45607
#1	.0002348	-.006156	.0007246	-.002130	.0027558	.0014101
#2	.0001837	-.003206	-.000026	-.003773	.0006873	.0016825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0025000		
Low Limit				-.002500		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019755	.0042167	.0001427	-.000416	.0006553	-.000509
Stddev	.0014640	.0008590	.0000030	.000038	.0004740	.000300
%RSD	74.10806	20.37098	2.093013	9.052690	72.33206	58.96599
#1	.0009403	.0048241	.0001449	-.000443	.0009904	-.000297
#2	.0030107	.0036093	.0001406	-.000389	.0003201	-.000722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	-.000001
Stddev	.000314
%RSD	24288.42
#1	-.000224
#2	.000221
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: FE Acquired: 7/16/2018 17:28:40 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2103.381	1189.347	9125.663	4344.461
Stddev	.100	1.137	4.976	1.642
%RSD	.0047525	.0956354	.0545276	.0377985
#1	2103.452	1188.543	9122.145	4345.622
#2	2103.311	1190.152	9129.182	4343.300

Sample Name: CCV Acquired: 7/16/2018 17:33:45 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5059001**	**49.75496**	**.5030367**	**.4932501**	**.4846206**	**.5013143**
Stddev	.0023712	.12517	.0013225	.0004428	.0012034	.0023013
%RSD	.4687040	.2515683	.2629007	.0897648	.2483258	.4590590
#1	.5042234	49.66645	.5039718	.4929370	.4837697	.4996870
#2	.5075767	49.84347	.5021015	.4935632	.4854716	.5029416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5109754**	**26.06451**	**.5033485**	F **-.031591**	**.5081405**	**.4882032**
Stddev	.0015966	.01572	.0009122	.003638	.0014071	.0010190
%RSD	.3124665	.0603050	.1812244	11.51748	.2769047	.2087187
#1	.5121044	26.05339	.5027035	-.029018	.5071455	.4889237
#2	.5098464	26.07562	.5039935	-.034164	.5091354	.4874826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5025934**	**25.73190**	**48.32198**	**3.854526**	**24.93192**	**4.891801**
Stddev	.0013212	.09932	.12160	.013881	.06093	.002983
%RSD	.2628687	.3859651	.2516397	.3601129	.2443784	.0609836
#1	.5016592	25.80213	48.23600	3.844711	24.88884	4.889692
#2	.5035276	25.66168	48.40796	3.864341	24.97501	4.893911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 7/16/2018 17:33:45 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4790567	24.75710	.5024126	.5200640	.4720194	.5011165
Stddev	.0021985	.06435	.0014274	.0045107	.0012115	.0014585
%RSD	.4589246	.2599384	.2841008	.8673315	.2566585	.2910572
#1	.4775022	24.71160	.5014033	.5168745	.4711627	.5000851
#2	.4806113	24.80261	.5034219	.5232535	.4728760	.5021478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4553786	.5215627	.4995921	.4977721	.4956511	5.096241
Stddev	.0031280	.0018568	.0003101	.0000320	.0032869	.005889
%RSD	.6869037	.3560030	.0620663	.0064297	.6631426	.1155579
#1	.4531667	.5202498	.4998114	.4977947	.4933269	5.100406
#2	.4575904	.5228757	.4993729	.4977494	.4979753	5.092077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.5166399
Stddev	.0025096
%RSD	.4857554
#1	.5148654
#2	.5184145
Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 7/16/2018 17:33:45 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1982.193	1171.888	8981.836	4341.488
Stddev	3.256	2.206	1.524	8.339
%RSD	.1642596	.1882713	.0169647	.1920880
#1	1984.495	1173.448	8980.758	4347.385
#2	1979.890	1170.328	8982.913	4335.592

Sample Name: CCB Acquired: 7/16/2018 17:37:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002175	-.017874	-.000220	-.006269	-.000277	-.000096	.0006126
Stddev	.0000415	.001941	.000814	.000205	.000016	.000193	.0001474
%RSD	19.06153	10.86029	370.6343	3.263667	5.697941	202.1081	24.05911
#1	.0001882	-.019247	.000356	-.006124	-.000288	-.000232	.0007169
#2	.0002468	-.016501	-.000795	-.006414	-.000266	.000041	.0005084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002971	.0001094	.0004238	.0000410	.0000990	-.000753	-.047443
Stddev	.000067	.0000358	.0040958	.0001470	.0003982	.000353	.024295
%RSD	2.264155	32.71681	966.3793	358.7725	402.0589	46.96015	51.20897
#1	-.003019	.0001347	.0033200	.0001450	.0003806	-.001003	-.064623
#2	-.002923	.0000841	-.002472	-.000063	-.000183	-.000503	-.030264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005696	.0006890	-.014544	.0002641	.0001437	.0023379	.0008720
Stddev	.009711	.0004485	.001075	.0002051	.0000227	.0020918	.0010489
%RSD	170.4783	65.09561	7.394008	77.64639	15.79870	89.47201	120.2770
#1	.001170	.0010061	-.013783	.0004091	.0001598	.0038170	.0001304
#2	-.012563	.0003719	-.015304	.0001191	.0001277	.0008588	.0016137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/16/2018 17:37:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007033	.0004504	.0031265	-.001720	.0009964	-.000005	-.000013
Stddev	.0021190	.0018723	.0020358	.000195	.0000986	.000007	.000084
%RSD	301.2804	415.7249	65.11275	11.32659	9.896295	141.1409	623.8451
#1	-.000795	.0017743	.0016870	-.001857	.0010661	-.000010	.000046
#2	.002202	-.000874	.0045660	-.001582	.0009266	-.000000	-.000073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000904	.0002828	-.000268
Stddev	.000592	.0002143	.000075
%RSD	65.49192	75.77234	28.03093
#1	-.000485	.0004344	-.000215
#2	-.001323	.0001313	-.000321
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2147.408	1199.879	9241.618	4358.186
Stddev	6.005	7.643	10.968	9.742
%RSD	.2796360	.6369720	.1186831	.2235421
#1	2143.162	1194.475	9249.373	4351.298
#2	2151.654	1205.283	9233.862	4365.075

Sample Name: MRL Acquired: 7/16/2018 17:41:40 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051673	.1908137	.0110210	.0426137	.0096410	.0037649
Stddev	.0004137	.0090706	.0000633	.0002325	.0000627	.0000627
%RSD	8.005645	4.753635	.5746427	.5455289	.6508013	1.666814
#1	.0054598	.1843999	.0110657	.0427781	.0095966	.0038092
#2	.0048747	.1972276	.0109762	.0424493	.0096853	.0037205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0482260	.2074185	.0021059	F -.002755	.0052731	.0109753
Stddev	.0018375	.0011238	.0000817	.008192	.0001315	.0000084
%RSD	3.810234	.5417777	3.881025	297.3475	2.494586	.0765056
#1	.0495254	.2082131	.0020481	.003037	.0053661	.0109812
#2	.0469267	.2066239	.0021637	-.008547	.0051801	.0109693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092114	.2342739	.4636263	.0100745	.0971639	.0101068
Stddev	.0000568	.0209639	.0133495	.0000508	.0166970	.0001569
%RSD	.6170341	8.948454	2.879369	.5042805	17.18433	1.552454
#1	.0092516	.2194502	.4730658	.0101104	.1089704	.0099958
#2	.0091713	.2490976	.4541867	.0100385	.0853573	.0102177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: MRL Acquired: 7/16/2018 17:41:40 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100419	.9964989	.0121570	.0047097	.0191630	.0110627
Stddev	.0003090	.0034825	.0011075	.0009219	.0005391	.0032261
%RSD	3.077033	.3494744	9.109764	19.57510	2.813275	29.16174
#1	.0098234	.9940364	.0129401	.0053616	.0187818	.0087815
#2	.0102604	.9989614	.0113739	.0040578	.0195442	.0133439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1864268	.0398310	.0051877	.0046546	.0096024	.0054577
Stddev	.0003488	.0009825	.0000194	.0000531	.0000645	.0004069
%RSD	.1870973	2.466766	.3747208	1.141039	.6721816	7.454989
#1	.1866734	.0391362	.0052014	.0046921	.0095568	.0057454
#2	.1861801	.0405257	.0051740	.0046170	.0096481	.0051700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0203882
Stddev	.0000063
%RSD	.0308764
#1	.0203838
#2	.0203927
Check ?	Chk Pass
Value	
Range	

Sample Name: MRL Acquired: 7/16/2018 17:41:40 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2153.734	1199.989	9247.250	4373.729
Stddev	2.942	.435	7.476	18.513
%RSD	.1365893	.0362369	.0808476	.4232710
#1	2151.654	1200.297	9241.964	4386.820
#2	2155.814	1199.682	9252.537	4360.639

Sample Name: mb 500-440876/1-a Acquired: 7/16/2018 17:47:44 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001586	-.005528	.0003543	-.006340	-.000266	-.000481	-.003050
Stddev	.0004375	.006305	.0003617	.000076	.000040	.000009	.000304
%RSD	275.7710	114.0714	102.1096	1.196726	14.94794	1.829915	9.979947
#1	.0004680	-.001069	.0000985	-.006286	-.000294	-.000487	-.003265
#2	-.000151	-.009986	.0006101	-.006393	-.000238	-.000474	-.002835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0564430	.0002678	.0054392	-.000093	.0013021	-.000250	-.013491
Stddev	.0021370	.0000963	.0187809	.000008	.0001643	.000263	.053267
%RSD	3.786148	35.94997	345.2885	8.458330	12.61901	104.9202	394.8421
#1	.0579541	.0001997	.0187193	-.000088	.0011859	-.000065	-.051156
#2	.0549319	.0003359	-.007841	-.000099	.0014183	-.000436	.024175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.019304	.0003534	.0046237	.0001311	.0000744	.0388774	.0007916
Stddev	.000221	.0005122	.0321861	.0001438	.0000005	.0021518	.0008441
%RSD	1.145684	144.9218	696.1112	109.6350	.7056590	5.534902	106.6369
#1	-.019460	.0007156	-.018135	.0000295	.0000740	.0403990	.0001947
#2	-.019147	-.000009	.027383	.0002328	.0000748	.0373559	.0013885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-440876/1-a Acquired: 7/16/2018 17:47:44 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000499**	**.0001371**	**.0025614**	**.0025250**	**-.000267**	**.0000639**	**-.000372**
Stddev	.000164	.0002940	.0021214	.0022391	.000565	.0000148	.000172
%RSD	32.94788	214.4367	82.82270	88.67705	211.4761	23.08994	46.21878
#1	-.000383	-.000071	.0040614	.0009417	-.000667	.0000743	-.000250
#2	-.000616	.000345	.0010613	.0041083	.000132	.0000535	-.000493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	**-.001755**	**-.000074**	**.0040249**
Stddev	.000532	.000356	.0001525
%RSD	30.28225	479.6514	3.788235
#1	-.001379	-.000326	.0041327
#2	-.002131	.000178	.0039171
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2161.921**	**1208.555**	**9409.050**	**4442.764**
Stddev	.646	2.493	9.490	15.538
%RSD	.0298896	.2063096	.1008585	.3497312
#1	2162.378	1206.792	9415.760	4431.778
#2	2161.464	1210.318	9402.340	4453.751

Sample Name: lcs 500-440876/2-a Acquired: 7/16/2018 17:51:49 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0494624	1.954644	.1000409	.9198991	1.936405	.0495188	.4846326
Stddev	.0007070	.009184	.0002100	.0077429	.006735	.0000832	.0052470
%RSD	1.429454	.4698407	.2099116	.8417156	.3478285	.1680342	1.082685
#1	.0489624	1.948150	.0998924	.9144240	1.931642	.0495776	.4809223
#2	.0499624	1.961138	.1001894	.9253742	1.941168	.0494599	.4883428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.38402	.0494511	.0019405	.4949727	.1955284	.2467262	1.012517
Stddev	.02633	.0001692	.0045407	.0000547	.0006216	.0005322	.010633
%RSD	.2535590	.3421236	233.9982	.0110520	.3179184	.2157108	1.050191
#1	10.40264	.0493314	-.001270	.4949340	.1950888	.2463499	1.020035
#2	10.36540	.0495707	.005151	.4950114	.1959680	.2471026	1.004998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.550821	.4830792	9.764595	.4991385	.9733925	9.875173	.4921873
Stddev	.048833	.0023000	.032394	.0001187	.0040452	.021125	.0000314
%RSD	.5112947	.4761051	.3317485	.0237710	.4155742	.2139194	.0063835
#1	9.516291	.4814529	9.741689	.4992224	.9705322	9.860235	.4921651
#2	9.585351	.4847055	9.787501	.4990546	.9762529	9.890110	.4922096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-440876/2-a Acquired: 7/16/2018 17:51:49 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1003880	.4782108	.0918233	4.769278	1.002644	.9967907	1.003419
Stddev	.0007535	.0014994	.0029621	.030688	.004134	.0050276	.001379
%RSD	.7505522	.3135335	3.225847	.6434470	.4122913	.5043785	.1374192
#1	.0998552	.4771506	.0897288	4.747579	.999721	1.000346	1.004393
#2	.1009208	.4792710	.0939178	4.790978	1.005567	.993236	1.002444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0975122	.5159695	.4929449
Stddev	.0008041	.0012734	.0002829
%RSD	.8246266	.2467941	.0573813
#1	.0980808	.5168699	.4931449
#2	.0969436	.5150691	.4927449
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2095.088	1183.560	9191.146	4414.722
Stddev	4.880	6.225	8.101	6.120
%RSD	.2329420	.5259426	.0881369	.1386158
#1	2098.539	1187.961	9196.874	4410.395
#2	2091.638	1179.158	9185.417	4419.049

Sample Name: 500-148362-a-2-a Acquired: 7/16/2018 17:55:49 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000121**	**.1716595**	**.0334424**	**.6064426**	**.4091518**	**-.000101**
Stddev	.000132	.0024760	.0066992	.1360507	.0007723	.000112
%RSD	109.3616	1.442378	20.03204	22.43423	.1887661	110.5250
#1	-.000214	.1699087	.0381795	.7026450	.4086056	-.000022
#2	-.000027	.1734103	.0287054	.5102402	.4096979	-.000181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005593**	**298.9748**	**.0006164**	**.0157117**	**.0049761**	**.0043952**
Stddev	.001207	.4916	.0001893	.0098355	.0014054	.0006772
%RSD	21.58073	.1644214	30.71348	62.59985	28.24310	15.40762
#1	-.006447	298.6272	.0007502	.0226665	.0059699	.0039163
#2	-.004740	299.3224	.0004825	.0087570	.0039824	.0048741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0047349**	**1.018105**	**59.46714**	**.1008766**	**70.19672**	**.6282209**
Stddev	.0000989	.060434	.18792	.0009519	.11054	.0040571
%RSD	2.089620	5.935962	.3160094	.9436494	.1574706	.6458051
#1	.0048049	.975371	59.33426	.1002035	70.11856	.6253521
#2	.0046649	1.060839	59.60002	.1015497	70.27488	.6310897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148362-a-2-a Acquired: 7/16/2018 17:55:49 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0271077	F 1804.077	.0186402	-.004035	.0005423	.0724383
Stddev	.0058047	1.698	.0059419	.001310	.0017554	.0168686
%RSD	21.41348	.0941362	31.87657	32.46529	323.6763	23.28677
#1	.0312122	1802.876	.0228417	-.004962	-.000699	.0843662
#2	.0230031	1805.278	.0144387	-.003109	.001784	.0605105
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.73387	.0026944	F 4.778777	-.000220	-.001427	.0336533
Stddev	3.90422	.0002829	.003249	.000012	.002207	.0000784
%RSD	22.01559	10.50087	.0679850	5.396305	154.6852	.2330784
#1	20.49457	.0028944	4.781074	-.000229	-.002988	.0335979
#2	14.97318	.0024943	4.776479	-.000212	.000134	.0337088
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			2.000000			
Low Limit			-.005000			

Elem	Zn2062
Units	ppm
Avg	.2630767
Stddev	.0560050
%RSD	21.28848
#1	.3026782
#2	.2234752
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148362-a-2-a Acquired: 7/16/2018 17:55:49 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1727.459	1149.549	7685.717	4010.931
Stddev	256.036	167.617	6.404	.075
%RSD	14.82151	14.58113	.0833226	.0018594
#1	1546.415	1031.026	7690.245	4010.879
#2	1908.504	1268.072	7681.189	4010.984

Sample Name: 500-148362-a-2-aSD@5 Acquired: 7/16/2018 17:59:58 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002049	.0260605	.0066223	.1122920	.0810645	.0001350	-.001348
Stddev	.0012781	.0095478	.0021225	.0386403	.0004140	.0002540	.002102
%RSD	623.8565	36.63717	32.05105	34.41050	.5107017	188.1580	156.0181
#1	.0011086	.0193092	.0081232	.1396148	.0813573	.0003145	.000139
#2	-.000699	.0328118	.0051215	.0849692	.0807718	-.000045	-.002834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	58.74580	.0003461	.0177892	.0010213	.0001843	.0010038	.1757112
Stddev	.06843	.0002184	.0078753	.0002068	.0003682	.0001721	.0002013
%RSD	.1164923	63.09509	44.26998	20.24745	199.8233	17.14613	.1145943
#1	58.79419	.0005005	.0233578	.0008751	-.000076	.0011256	.1755688
#2	58.69741	.0001917	.0122205	.0011675	.000445	.0008821	.1758536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.18634	.0205638	13.64132	.1248713	.0055734	364.6429	.0030109
Stddev	.01080	.0000973	.00254	.0006072	.0012417	.0604	.0062486
%RSD	.0965267	.4732522	.0186080	.4862903	22.27915	.0165713	207.5330
#1	11.17871	.0204950	13.64311	.1253007	.0064514	364.6002	.0074293
#2	11.19398	.0206326	13.63952	.1244419	.0046954	364.6856	-.001408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148362-a-2-aSD@5 Acquired: 7/16/2018 17:59:58 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000949	-.001146	.0130767	3.249173	.0013609	1.044413	.0003802
Stddev	.003140	.001417	.0067602	1.003760	.0009458	.001337	.0003501
%RSD	330.8466	123.6866	51.69690	30.89279	69.49920	.1280087	92.08141
#1	.001271	-.002148	.0178569	3.958939	.0020297	1.045358	.0006278
#2	-.003169	-.000144	.0082965	2.539407	.0006921	1.043468	.0001327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0004750	.0066180	.0466341
Stddev	.0004493	.0003084	.0131586
%RSD	94.58647	4.660144	28.21661
#1	.0001573	.0068361	.0559386
#2	.0007928	.0063999	.0373296
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2136.510	1292.757	8474.711	4268.208
Stddev	392.973	246.348	18.484	7.211
%RSD	18.39321	19.05604	.2181101	.1689495
#1	1858.636	1118.562	8461.641	4263.109
#2	2414.383	1466.951	8487.781	4273.307

Sample Name: 500-148362-a-2-b du Acquired: 7/16/2018 18:04:10 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000280**	**.1244490**	**.0342380**	**.6120023**	**.4115419**	**-.000076**
Stddev	.000716	.0032812	.0065484	.1256610	.0007405	.000178
%RSD	255.4591	2.636550	19.12622	20.53277	.1799287	232.4236
#1	.000226	.1267692	.0388684	.7008581	.4110183	.000049
#2	-.000786	.1221289	.0296075	.5231466	.4120655	-.000202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002796**	**304.3168**	**.0002799**	**.0166162**	**.0051512**	**.0036865**
Stddev	.003297	.7000	.0001892	.0053243	.0011807	.0003380
%RSD	117.9000	.2300138	67.59144	32.04288	22.92192	9.168186
#1	-.000465	304.8118	.0001461	.0203811	.0059861	.0034476
#2	-.005127	303.8218	.0004137	.0128514	.0043162	.0039255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038784**	**1.020202**	**60.14585**	**.1007928**	**70.98072**	**.6366506**
Stddev	.0003791	.037210	.13379	.0011978	.18405	.0009775
%RSD	9.775324	3.647298	.2224447	1.188355	.2592986	.1535430
#1	.0041465	.993891	60.05125	.0999458	71.11087	.6373418
#2	.0036104	1.046513	60.24046	.1016397	70.85058	.6359594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148362-a-2-b du Acquired: 7/16/2018 18:04:10 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0274871	F 1781.467	.0175932	-.002432	-.001547	.0725788
Stddev	.0050516	5.863	.0062123	.001414	.001913	.0184109
%RSD	18.37807	.3291176	35.31070	58.12776	123.6711	25.36684
#1	.0310591	1777.321	.0219859	-.001433	-.002900	.0855973
#2	.0239151	1785.613	.0132004	-.003432	-.000194	.0595603
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.97330	.0031175	F 4.824408	-.000857	.0001046	.0353369
Stddev	3.62011	.0000161	.009333	.000086	.0001361	.0000935
%RSD	20.14158	.5151200	.1934524	10.04505	130.1499	.2646015
#1	20.53311	.0031289	4.817809	-.000918	.0002008	.0354030
#2	15.41350	.0031061	4.831007	-.000796	.0000083	.0352708
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			2.000000			
Low Limit			-.005000			

Elem	Zn2062
Units	ppm
Avg	.2700050
Stddev	.0556055
%RSD	20.59423
#1	.3093240
#2	.2306860
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148362-a-2-b du Acquired: 7/16/2018 18:04:10 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1736.673	1159.167	7806.114	4069.238
Stddev	232.259	146.881	2.048	15.267
%RSD	13.37380	12.67123	.0262302	.3751810
#1	1572.441	1055.306	7807.562	4058.443
#2	1900.905	1263.027	7804.666	4080.033

Sample Name: 500-148362-a-2-c ms Acquired: 7/16/2018 18:08:18 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0564116	2.100717	.1391467	1.564774	2.124111	.0492082
Stddev	.0000540	.023148	.0032127	.040722	.006983	.0000890
%RSD	.0957528	1.101918	2.308821	2.602445	.3287415	.1808013
#1	.0564498	2.117085	.1414184	1.593569	2.129048	.0491453
#2	.0563734	2.084349	.1368750	1.535979	2.119173	.0492711
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5533069	300.4059	.0509871	.0133002	.5083188	.1836417
Stddev	.0138661	1.1484	.0008641	.0120243	.0133119	.0016193
%RSD	2.506033	.3822829	1.694810	90.40679	2.618801	.8817890
#1	.5631117	299.5938	.0515981	.0218026	.5177317	.1847867
#2	.5435021	301.2179	.0503761	.0047977	.4989059	.1824966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2708367	1.875661	69.36114	.5863614	78.48270	1.079786
Stddev	.0005327	.056007	.22849	.0039500	.15966	.005391
%RSD	.1966795	2.986011	.3294229	.6736411	.2034322	.4992822
#1	.2712133	1.915264	69.52270	.5891544	78.36981	1.075974
#2	.2704600	1.836057	69.19957	.5835683	78.59560	1.083598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148362-a-2-c ms Acquired: 7/16/2018 18:08:18 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9119263	F 1775.289	.5083897	.0957260	.4623087	.1699782
Stddev	.0239745	10.307	.0156282	.0026249	.0100692	.0081860
%RSD	2.628990	.5805718	3.074055	2.742059	2.178024	4.815885
#1	.9288787	1782.577	.5194405	.0975821	.4694287	.1757666
#2	.8949738	1768.001	.4973389	.0938700	.4551887	.1641899
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.29231	1.050626	F 5.492595	.9619118	.0856226	.5344345
Stddev	.60112	.033186	.003670	.0002353	.0034798	.0009224
%RSD	2.474509	3.158667	.0668216	.0244562	4.064090	.1725979
#1	24.71736	1.074092	5.495190	.9620781	.0880831	.5350868
#2	23.86726	1.027160	5.490000	.9617454	.0831620	.5337823
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			2.000000			
Low Limit			-.005000			

Elem	Zn2062
Units	ppm
Avg	.8154097
Stddev	.0237495
%RSD	2.912582
#1	.8322031
#2	.7986163
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148362-a-2-c ms Acquired: 7/16/2018 18:08:18 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1563.582	1050.226	7755.614	4067.173
Stddev	22.647	13.717	2.313	21.647
%RSD	1.448417	1.306096	.0298191	.5322487
#1	1547.568	1040.527	7753.979	4051.866
#2	1579.596	1059.926	7757.250	4082.480

Sample Name: 500-148283-f-1-a Acquired: 7/16/2018 18:12:23 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000510**	**.2807340**	**.0055229**	**1.820766**	**.5390160**	**-.000290**
Stddev	.000146	.0100021	.0030384	.011094	.0008997	.000082
%RSD	28.52655	3.562820	55.01518	.6093245	.1669112	28.14112
#1	-.000407	.2736614	.0033744	1.812921	.5396522	-.000348
#2	-.000613	.2878065	.0076714	1.828611	.5383799	-.000232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003129**	**55.51111**	**.0028947**	**.0044408**	**.0008349**	**.0122508**
Stddev	.000114	.07568	.0001098	.0030894	.0001060	.0001057
%RSD	3.658622	.1363270	3.791358	69.56758	12.70056	.8630503
#1	-.003048	55.45760	.0029723	.0066254	.0009099	.0123255
#2	-.003210	55.56462	.0028171	.0022563	.0007599	.0121760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1119951**	**.1585113**	**41.82651**	**.0971612**	**15.66103**	**.0599895**
Stddev	.0006914	.0463617	.00975	.0000590	.03740	.0000690
%RSD	.6173273	29.24818	.0233145	.0607273	.2387993	.1149994
#1	.1115062	.1257286	41.83341	.0972029	15.68748	.0599407
#2	.1124840	.1912939	41.81961	.0971195	15.63459	.0600383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148283-f-1-a Acquired: 7/16/2018 18:12:23 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0377819	F 2220.742	.0285783	.0050569	.2729261	.0067126
Stddev	.0000436	37.674	.0000651	.0014915	.0019396	.0017539
%RSD	.1153132	1.696467	.2278786	29.49423	.7106708	26.12874
#1	.0378127	2247.382	.0285322	.0040022	.2715546	.0054724
#2	.0377511	2194.103	.0286243	.0061115	.2742976	.0079528
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.79842	.0139680	.2717515	.0021419	-.001206	.0048713
Stddev	.09912	.0000934	.0001286	.0003139	.000812	.0000339
%RSD	.7183364	.6688419	.0473133	14.65670	67.28529	.6955828
#1	13.72834	.0140340	.2718424	.0023639	-.001780	.0048953
#2	13.86851	.0139019	.2716606	.0019199	-.000632	.0048473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.3618236
Stddev	.0022618
%RSD	.6251209
#1	.3602242
#2	.3634229
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148283-f-1-a Acquired: 7/16/2018 18:12:23 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1522.995	1014.547	7387.414	4014.560
Stddev	6.275	3.711	20.497	13.390
%RSD	.4120495	.3657369	.2774524	.3335266
#1	1527.432	1017.171	7372.921	4005.092
#2	1518.557	1011.923	7401.907	4024.028

Sample Name: 500-148283-a-2-a Acquired: 7/16/2018 18:16:27 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000294**	**.0545346**	**.0100684**	**2.284010**	**.1643484**	**-.000175**	**-.004117**
Stddev	.000088	.0123109	.0006525	.013000	.0011167	.000016	.002258
%RSD	29.94322	22.57454	6.480569	.5691847	.6794438	9.038530	54.83524
#1	-.000356	.0632398	.0105298	2.274818	.1651380	-.000164	-.005714
#2	-.000232	.0458295	.0096070	2.293203	.1635588	-.000186	-.002521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**69.46885**	**.0011521**	**.0043381**	**.0011002**	**.0254447**	**.2466878**	**.1302768**
Stddev	.00933	.0001343	.0023431	.0006290	.0000669	.0000843	.0205966
%RSD	.0134329	11.65395	54.01100	57.16926	.2629722	.0341886	15.80985
#1	69.47545	.0010571	.0059949	.0006554	.0254920	.2466282	.1448408
#2	69.46225	.0012470	.0026813	.0015449	.0253974	.2467475	.1157128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.28772**	**.0424151**	**25.49490**	**.0168212**	**.0344063**	**600.3117**	**.0124186**
Stddev	.14278	.0000283	.11547	.0004322	.0006603	5.1453	.0004489
%RSD	.8258876	.0667051	.4529093	2.569178	1.919149	.8571034	3.614791
#1	17.38868	.0423950	25.57654	.0165156	.0339394	596.6734	.0127361
#2	17.18676	.0424351	25.41325	.0171268	.0348732	603.9500	.0121012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148283-a-2-a Acquired: 7/16/2018 18:16:27 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017751	.0010141	.0013368	18.56721	.0015172	.3391701	.0024720
Stddev	.0016285	.0016054	.0014807	.13558	.0022095	.0001530	.0001591
%RSD	91.74133	158.3018	110.7673	.7302249	145.6351	.0451006	6.437030
#1	.0029266	-.000121	.0002898	18.47134	.0030796	.3390619	.0023595
#2	.0006236	.002149	.0023838	18.66308	-.000045	.3392783	.0025846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001094	.0112981	.0849624
Stddev	.000778	.0005510	.0008473
%RSD	71.10104	4.877112	.9972279
#1	-.000544	.0109085	.0843633
#2	-.001644	.0116878	.0855616
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1718.563	1049.348	8164.294	4268.021
Stddev	4.226	4.694	7.790	4.059
%RSD	.2459031	.4473689	.0954188	.0950975
#1	1721.551	1052.668	8158.785	4265.151
#2	1715.574	1046.029	8169.802	4270.891

Sample Name: mb 500-440816/1-b Acquired: 7/16/2018 18:20:31 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002667	.0081546	.0011351	-.000778	-.000144	-.000084	-.003704
Stddev	.0000275	.0005169	.0001907	.000032	.000032	.000104	.000138
%RSD	10.30423	6.338343	16.80264	4.105833	22.58188	123.8071	3.715854
#1	.0002861	.0085201	.0012700	-.000801	-.000166	-.000158	-.003801
#2	.0002473	.0077891	.0010002	-.000755	-.000121	-.000010	-.003606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0624207	.0003109	.0122912	-.000440	.0010416	-.000178	.0400594
Stddev	.0038531	.0001817	.0049949	.000268	.0002139	.000044	.0049072
%RSD	6.172783	58.44082	40.63832	60.84366	20.53978	25.03258	12.24983
#1	.0651452	.0001824	.0158231	-.000251	.0008903	-.000146	.0365895
#2	.0596962	.0004394	.0087592	-.000629	.0011928	-.000209	.0435293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0855254	.0000828	.0271887	.0015560	.0003569	.6147719	.0011360
Stddev	.0064495	.0006877	.0042393	.0004838	.0000716	.0163247	.0001900
%RSD	7.541043	830.0638	15.59226	31.09277	20.06148	2.655406	16.72021
#1	.0900859	.0005692	.0241911	.0012139	.0004075	.6263152	.0010017
#2	.0809649	-.000403	.0301864	.0018980	.0003063	.6032287	.0012704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-440816/1-b Acquired: 7/16/2018 18:20:31 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001921	.0000154	.0034754	.0292908	.0005320	.0002115	-.000443
Stddev	.000880	.0004254	.0006419	.0005459	.0011828	.0000053	.000066
%RSD	45.77629	2755.420	18.46848	1.863840	222.3376	2.520295	14.93045
#1	-.002543	-.000285	.0039292	.0289048	-.000304	.0002152	-.000490
#2	-.001299	.000316	.0030215	.0296768	.001368	.0002077	-.000397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002777	.0001468	.0046630
Stddev	.000996	.0005146	.0001377
%RSD	35.88344	350.4418	2.954134
#1	-.002072	-.000217	.0045656
#2	-.003482	.000511	.0047604
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2145.762	1185.037	9349.113	4463.634
Stddev	.564	.666	2.726	12.946
%RSD	.0262880	.0562162	.0291564	.2900250
#1	2145.363	1184.565	9351.041	4454.480
#2	2146.161	1185.508	9347.186	4472.788

Sample Name: 500-148283-g-1-b Acquired: 7/16/2018 18:24:34 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000035	.2199340	.0031270	1.397021	.4061094	-.000220
Stddev	.0003463	.0062040	.0004730	.017028	.0011845	.000454
%RSD	9872.692	2.820827	15.12525	1.218857	.2916826	206.3119
#1	.0002483	.2243208	.0027926	1.409061	.4052718	-.000542
#2	-.000241	.2155471	.0034615	1.384980	.4069470	.000101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004146	43.59558	.0021477	.0051548	.0003584	.0091912
Stddev	.000184	.17125	.0002425	.0080885	.0006317	.0012136
%RSD	4.441378	.3928224	11.28988	156.9126	176.2616	13.20418
#1	-.004276	43.47449	.0023191	.0108742	-.000088	.0083330
#2	-.004016	43.71668	.0019762	-.000565	.000805	.0100493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0708946	.0194631	31.96042	.0731671	12.23452	.0479965
Stddev	.0001810	.0105661	.17229	.0008754	.06313	.0007227
%RSD	.2553162	54.28810	.5390601	1.196496	.5159998	1.505728
#1	.0710226	.0269345	31.83859	.0725481	12.18988	.0474855
#2	.0707666	.0119917	32.08224	.0737861	12.27916	.0485075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148283-g-1-b Acquired: 7/16/2018 18:24:34 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0295614	F 1759.083	.0212827	-.001985	.2064604	.0032385
Stddev	.0004304	5.492	.0007140	.000419	.0002897	.0014620
%RSD	1.455860	.3122282	3.354707	21.12788	.1403028	45.14375
#1	.0298657	1755.199	.0207778	-.001688	.2062556	.0042723
#2	.0292571	1762.967	.0217875	-.002282	.2066653	.0022047
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.56265	.0037108	.2126192	.0001900	-.000244	.0041164
Stddev	.14472	.0010364	.0000895	.0000580	.000817	.0003055
%RSD	1.370096	27.92820	.0420801	30.53972	334.1935	7.421653
#1	10.66498	.0044437	.2126825	.0001490	-.000822	.0039004
#2	10.46031	.0029780	.2125559	.0002310	.000333	.0043324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.1903230
Stddev	.0018157
%RSD	.9539871
#1	.1916068
#2	.1890391
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148283-g-1-b Acquired: 7/16/2018 18:24:34 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1569.658	1017.711	7526.211	4043.831
Stddev	13.848	10.943	10.488	12.331
%RSD	.8822293	1.075273	.1393478	.3049436
#1	1559.866	1009.973	7518.795	4052.550
#2	1579.450	1025.449	7533.627	4035.111

Sample Name: CCV Acquired: 7/16/2018 18:28:40 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5135977**	**49.53118**	**.5049726**	**.4906584**	**.4827838**	**.4965188**
Stddev	.0008773	.13407	.0020930	.0012491	.0005400	.0003906
%RSD	.1708132	.2706849	.4144671	.2545767	.1118545	.0786695
#1	.5142180	49.43637	.5064526	.4897751	.4824019	.4962426
#2	.5129773	49.62598	.5034927	.4915416	.4831656	.4967950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5140362**	**25.84504**	**.5034667**	F **-.025800**	**.5091550**	**.4838541**
Stddev	.0004740	.12535	.0008030	.002003	.0013783	.0008866
%RSD	.0922045	.4849976	.1594972	7.762543	.2706960	.1832397
#1	.5143714	25.75641	.5040346	-.024384	.5101295	.4832271
#2	.5137011	25.93368	.5028989	-.027216	.5081804	.4844810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5015260**	**25.56283**	**48.14630**	**3.847214**	**24.74010**	**4.859907**
Stddev	.0002259	.07737	.01520	.003003	.00056	.021957
%RSD	.0450342	.3026567	.0315759	.0780548	.0022560	.4517885
#1	.5013663	25.50813	48.13555	3.849337	24.73971	4.844381
#2	.5016857	25.61754	48.15705	3.845091	24.74049	4.875432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 7/16/2018 18:28:40 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4819180**	**25.42890**	**.5039038**	**.5284391**	**.4689526**	**.4980651**
Stddev	.0011791	.01419	.0025914	.0048458	.0001883	.0017999
%RSD	.2446755	.0558103	.5142617	.9170006	.0401449	.3613829
#1	.4810843	25.41886	.5057362	.5318656	.4688195	.4993378
#2	.4827518	25.43893	.5020715	.5250126	.4690857	.4967923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4785007**	**.5197623**	**.5038684**	**.4988201**	**.4969674**	**5.181375**
Stddev	.0032569	.0034903	.0002505	.0009053	.0022694	.004457
%RSD	.6806442	.6715198	.0497143	.1814916	.4566476	.0860253
#1	.4808037	.5222303	.5040455	.4994603	.4953627	5.184526
#2	.4761978	.5172943	.5036912	.4981800	.4985721	5.178223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	**.5161275**
Stddev	.0012777
%RSD	.2475597
#1	.5170310
#2	.5152240
Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 7/16/2018 18:28:40 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1968.909	1162.941	8886.366	4345.759
Stddev	.300	1.215	.652	17.646
%RSD	.0152312	.1044380	.0073335	.4060533
#1	1968.697	1163.799	8885.906	4358.237
#2	1969.121	1162.082	8886.827	4333.281

Sample Name: CCB Acquired: 7/16/2018 18:32:31 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002132**	**-.006128**	**.0007173**	**-.006039**	**-.000171**	**-.000379**	**.0003540**
Stddev	.0002649	.008993	.0019016	.000269	.000010	.000191	.0009250
%RSD	124.2512	146.7540	265.1124	4.450732	5.607349	50.36894	261.3020
#1	.0000259	-.012487	.0020619	-.005849	-.000164	-.000513	.0010081
#2	.0004005	.000231	-.000627	-.006229	-.000178	-.000244	-.000300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006530**	**.0001597**	**.0014128**	**.0003071**	**.0001549**	**-.000983**	**-.025709**
Stddev	.001384	.0000377	.0035963	.0001577	.0007909	.000089	.054566
%RSD	21.19965	23.59159	254.5584	51.35949	510.7698	9.013696	212.2394
#1	-.007509	.0001864	.0039558	.0004186	.0007141	-.001045	-.064293
#2	-.005551	.0001331	-.001130	.0001955	-.000404	-.000920	.012874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0102977**	**.0006260**	**.0123943**	**.0006769**	**.0001953**	**.1838278**	**.0011885**
Stddev	.0025039	.0006329	.0301808	.0003378	.0001660	.0017831	.0002115
%RSD	24.31479	101.1075	243.5060	49.90077	84.99376	.9699617	17.79321
#1	.0120683	.0010736	-.008947	.0009158	.0003127	.1850886	.0010390
#2	.0085272	.0001785	.033735	.0004381	.0000779	.1825670	.0013380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/16/2018 18:32:31 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001915	.0004410	-.001056	.0034246	.0003234	.0000100	-.000287
Stddev	.0001225	.0002890	.002562	.0013066	.0002007	.0000016	.000011
%RSD	63.98677	65.52947	242.5350	38.15401	62.06116	16.29277	3.961434
#1	.0001048	.0006453	.000755	.0025007	.0004654	.0000088	-.000279
#2	.0002781	.0002367	-.002868	.0043485	.0001815	.0000112	-.000295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001256	.0002884	-.000117
Stddev	.000710	.0001349	.000148
%RSD	56.50171	46.75596	127.1414
#1	-.001758	.0001931	-.000222
#2	-.000754	.0003838	-.000012
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2141.261	1199.811	9226.937	4375.828
Stddev	5.302	4.895	23.665	18.667
%RSD	.2475931	.4079495	.2564791	.4266021
#1	2145.009	1203.272	9243.671	4389.028
#2	2137.512	1196.350	9210.203	4362.628

Sample Name: lb 500-440847/1-b Acquired: 7/16/2018 18:36:36 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000584	.0270935	.0027689	.0206326	.0009766	-.000296
Stddev	.0003407	.0174121	.0014226	.0073732	.0001111	.000012
%RSD	583.6957	64.26676	51.37864	35.73584	11.37181	4.167379
#1	.0002993	.0147812	.0017629	.0258463	.0008980	-.000287
#2	-.000183	.0394057	.0037748	.0154190	.0010551	-.000305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005581	.1220878	.0005828	.0067460	-.000521	.0010195
Stddev	.000758	.0014385	.0001287	.0134364	.000174	.0001747
%RSD	13.57958	1.178216	22.08967	199.1746	33.43588	17.14194
#1	-.006116	.1210706	.0006738	-.002755	-.000398	.0011430
#2	-.005045	.1231049	.0004918	.016247	-.000645	.0008959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017164	-.029739	.4484793	.0030951	.0329712	.0004488
Stddev	.0004067	.016902	.0418073	.0001416	.0145726	.0001159
%RSD	23.69585	56.83385	9.322021	4.573561	44.19805	25.81948
#1	.0020040	-.017787	.4189171	.0031952	.0226668	.0005308
#2	.0014288	-.041690	.4780416	.0029950	.0432756	.0003669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lb 500-440847/1-b Acquired: 7/16/2018 18:36:36 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000066	F 1277.718	.0039769	-.004376	-.000189	.0035696
Stddev	.000343	5.396	.0032686	.001716	.000721	.0032743
%RSD	521.4783	.4222828	82.18856	39.22542	381.9012	91.72733
#1	.000177	1273.903	.0062882	-.003162	-.000699	.0058849
#2	-.000309	1281.533	.0016657	-.005589	.000321	.0012543
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2651988	.0021550	.0008174	-.000273	-.004858	.0007169
Stddev	.0580315	.0003452	.0000012	.000045	.001806	.0001222
%RSD	21.88225	16.01880	.1457100	16.35489	37.17758	17.04195
#1	.3062333	.0023992	.0008182	-.000305	-.006136	.0006305
#2	.2241644	.0019110	.0008165	-.000242	-.003581	.0008033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0028422
Stddev	.0001829
%RSD	6.436616
#1	.0029716
#2	.0027129
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: lb 500-440847/1-b Acquired: 7/16/2018 18:36:36 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1854.824	1177.866	7732.904	4087.494
Stddev	303.752	207.787	6.055	2.158
%RSD	16.37633	17.64096	.0782984	.0527856
#1	1640.039	1030.939	7728.623	4085.968
#2	2069.609	1324.794	7737.186	4089.019

Sample Name: lcs 500-440994/2-a Acquired: 7/16/2018 18:40:46 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0442154	1.884183	.0940216	.8627771	1.897335	.0468374	.4537351
Stddev	.0000848	.009890	.0021634	.0049542	.001608	.0007207	.0013728
%RSD	.1917915	.5249012	2.300945	.5742105	.0847583	1.538751	.3025645
#1	.0441555	1.891176	.0924918	.8592740	1.898472	.0463278	.4527644
#2	.0442754	1.877189	.0955513	.8662803	1.896198	.0473470	.4547059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.937486	.0464810	.0099875	.4777658	.1881423	.2410558	1.009153
Stddev	.024004	.0005204	.0184137	.0016379	.0000261	.0009260	.002885
%RSD	.2415473	1.119659	184.3684	.3428289	.0138985	.3841635	.2858693
#1	9.920513	.0461130	-.003033	.4766076	.1881608	.2404010	1.011193
#2	9.954459	.0468490	.023008	.4789240	.1881238	.2417106	1.007113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.309472	.4747905	9.323286	.4806849	.9592639	10.04149	.4720670
Stddev	.020905	.0013041	.068620	.0014150	.0041545	.06062	.0011020
%RSD	.2245540	.2746708	.7360031	.2943611	.4330910	.6036526	.2334302
#1	9.324254	.4757126	9.274765	.4796844	.9563263	10.08435	.4712878
#2	9.294690	.4738683	9.371807	.4816855	.9622016	9.99862	.4728462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-440994/2-a Acquired: 7/16/2018 18:40:46 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0937042	.4454233	.0821024	4.612564	.9666647	.9710520	.9799365
Stddev	.0001469	.0008214	.0013352	.038803	.0051013	.0064743	.0018904
%RSD	.1567764	.1844106	1.626199	.8412394	.5277178	.6667281	.1929129
#1	.0938081	.4448425	.0830465	4.585127	.9630576	.9664740	.9785997
#2	.0936003	.4460041	.0811584	4.640002	.9702718	.9756300	.9812732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0864675	.5017724	.4991701
Stddev	.0000461	.0002104	.0007956
%RSD	.0533088	.0419289	.1593821
#1	.0864349	.5016236	.4997327
#2	.0865000	.5019212	.4986075
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2076.546	1171.121	9139.795	4389.660
Stddev	3.470	4.687	13.382	1.757
%RSD	.1671115	.4002012	.1464167	.0400340
#1	2079.000	1174.435	9149.258	4390.903
#2	2074.093	1167.807	9130.332	4388.417

Sample Name: 500-147844-b-1-g Acquired: 7/16/2018 18:44:46 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008435	2.290342	.0228115	.1325535	.2731863	.0004215
Stddev	.0000175	.010918	.0003159	.0007632	.0001185	.0004067
%RSD	2.076919	.4767166	1.384957	.5757400	.0433824	96.48862
#1	.0008559	2.282621	.0225882	.1320139	.2732701	.0007091
#2	.0008312	2.298062	.0230349	.1330931	.2731025	.0001339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003454	135.3307	.0008905	.0241880	.0023045	.0181611
Stddev	.000016	.4332	.0000787	.0017973	.0000900	.0000466
%RSD	.4528360	.3201165	8.832184	7.430575	3.907640	.2564879
#1	-.003465	135.0244	.0009461	.0254588	.0023682	.0181282
#2	-.003443	135.6371	.0008349	.0229171	.0022408	.0181940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014245	226.0109	3.583512	.0130873	21.73836	4.682935
Stddev	.0004000	.0750	.045543	.0006160	.09571	.015346
%RSD	28.08079	.0331701	1.270904	4.706811	.4403002	.3277097
#1	.0011416	225.9578	3.551308	.0126517	21.67068	4.672083
#2	.0017073	226.0639	3.615716	.0135228	21.80604	4.693786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147844-b-1-g Acquired: 7/16/2018 18:44:46 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0317557	F 1391.795	.0358176	-.002772	.0049811	.0060157
Stddev	.0003220	7.847	.0004128	.002782	.0000051	.0019794
%RSD	1.013898	.5637719	1.152382	100.3406	.1027075	32.90451
#1	.0319834	1386.247	.0361095	-.004739	.0049847	.0046160
#2	.0315281	1397.343	.0355258	-.000805	.0049775	.0074154
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.780061	.0075880	.4828989	.0003886	-.004959	.0346058
Stddev	.020449	.0007304	.0012283	.0001461	.000343	.0001153
%RSD	.4278024	9.625301	.2543628	37.60980	6.909923	.3330228
#1	4.765601	.0081045	.4820304	.0004919	-.005202	.0345243
#2	4.794521	.0070716	.4837675	.0002852	-.004717	.0346873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.1257455
Stddev	.0018495
%RSD	1.470807
#1	.1244377
#2	.1270533
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-147844-b-1-g Acquired: 7/16/2018 18:44:46 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1595.707	1026.377	7781.264	4110.765
Stddev	3.895	2.699	3.441	5.803
%RSD	.2440919	.2629643	.0442171	.1411590
#1	1598.461	1028.285	7783.697	4114.868
#2	1592.953	1024.468	7778.831	4106.662

Sample Name: 500-147844-b-2-d Acquired: 7/16/2018 18:48:51 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004039**	**.7819838**	**.0087785**	**.1432987**	**.2204790**	**.0005399**
Stddev	.0001880	.0053486	.0038421	.0009445	.0005897	.0003231
%RSD	46.53584	.6839833	43.76704	.6591226	.2674497	59.85348
#1	.0005368	.7782017	.0114953	.1426309	.2208960	.0003114
#2	.0002710	.7857658	.0060618	.1439666	.2200621	.0007684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004546**	**451.4585**	**.0006166**	**.0215947**	**.0219032**	**.0022381**
Stddev	.001659	1.1444	.0003427	.0023147	.0008358	.0003187
%RSD	36.48780	.2534989	55.57718	10.71878	3.815882	14.24134
#1	-.005719	450.6492	.0008589	.0232314	.0224942	.0020128
#2	-.003373	452.2677	.0003743	.0199579	.0213122	.0024635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018939**	**90.27486**	**5.700376**	**.0222990**	**19.81807**	**3.156518**
Stddev	.0004408	.24581	.025485	.0002604	.06488	.008976
%RSD	23.27543	.2722914	.4470809	1.167538	.3273633	.2843502
#1	.0022056	90.10105	5.682355	.0221149	19.86395	3.150171
#2	.0015822	90.44868	5.718397	.0224831	19.77220	3.162865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147844-b-2-d Acquired: 7/16/2018 18:48:51 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079751	F 1483.198	.1941293	-.002585	.0033761	.0096301
Stddev	.0002739	11.032	.0006397	.001800	.0009878	.0003800
%RSD	3.433862	.7437783	.3295425	69.63987	29.25933	3.946255
#1	.0077814	1490.998	.1936769	-.001312	.0026776	.0093613
#2	.0081687	1475.397	.1945816	-.003858	.0040746	.0098988
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.365622	.0033972	.6191487	-.003021	-.008133	.0051531
Stddev	.023933	.0004275	.0017652	.000039	.000601	.0001376
%RSD	.4460458	12.58332	.2850983	1.305219	7.391886	2.670993
#1	5.348699	.0036995	.6203969	-.002993	-.008558	.0050557
#2	5.382545	.0030950	.6179005	-.003049	-.007708	.0052504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.1972650
Stddev	.0004146
%RSD	.2101744
#1	.1969718
#2	.1975581
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-147844-b-2-d Acquired: 7/16/2018 18:48:51 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1521.266	984.8321	7524.904	4021.829
Stddev	5.701	1.2424	25.518	6.565
%RSD	.3747843	.1261533	.3391125	.1632291
#1	1525.297	985.7106	7506.860	4017.187
#2	1517.234	983.9536	7542.948	4026.471

Sample Name: 500-147844-b-9-e Acquired: 7/16/2018 18:52:56 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000630**	**.0175421**	**.0029442**	**.0295558**	**2.952807**	**-.000098**
Stddev	.000191	.0015837	.0011788	.0113642	.004149	.000051
%RSD	30.28233	9.027968	40.03824	38.45011	.1405026	52.43654
#1	-.000495	.0164222	.0021106	.0375915	2.955741	-.000062
#2	-.000765	.0186619	.0037777	.0215201	2.949874	-.000134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006236**	**473.3628**	**.0027605**	**.0180299**	**.0006274**	**.0068849**
Stddev	.000333	3.6053	.0007913	.0022455	.0005236	.0002430
%RSD	5.336784	.7616273	28.66450	12.45413	83.44085	3.529403
#1	-.006472	470.8135	.0033200	.0164421	.0009977	.0070567
#2	-.006001	475.9121	.0022010	.0196177	.0002572	.0067131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0075594**	**.0203244**	**1.444577**	**.0091962**	**5.413706**	**.0450181**
Stddev	.0000400	.0030408	.063570	.0007122	.012177	.0006344
%RSD	.5285533	14.96136	4.400597	7.744070	.2249363	1.409190
#1	.0075312	.0181742	1.399627	.0086926	5.422317	.0454667
#2	.0075876	.0224746	1.489528	.0096998	5.405095	.0445695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147844-b-9-e Acquired: 7/16/2018 18:52:56 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004549	F 1459.485	.0126937	-.001031	.0065112	.0104604
Stddev	.0002812	2.271	.0073180	.002121	.0032398	.0026593
%RSD	61.80357	.1556300	57.65022	205.7024	49.75737	25.42264
#1	.0002561	1461.091	.0178683	.000469	.0088021	.0123408
#2	.0006537	1457.878	.0075191	-.002531	.0042203	.0085800
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.007407	.0035612	.4291647	-.003443	-.006523	.0017124
Stddev	.282674	.0015937	.0004951	.000034	.003002	.0001950
%RSD	28.05960	44.75117	.1153579	.9836331	46.02132	11.38681
#1	1.207288	.0046881	.4295148	-.003420	-.004401	.0018503
#2	.807526	.0024343	.4288147	-.003467	-.008646	.0015746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.1648801
Stddev	.0447095
%RSD	27.11638
#1	.1964945
#2	.1332657
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-147844-b-9-e Acquired: 7/16/2018 18:52:56 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1729.632	1117.020	7445.700	4013.478
Stddev	324.523	213.114	15.076	1.493
%RSD	18.76255	19.07881	.2024814	.0372089
#1	1500.159	966.326	7435.039	4012.422
#2	1959.104	1267.715	7456.360	4014.534

Sample Name: 500-147844-b-11-d Acquired: 7/16/2018 18:57:08 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002658	.0298643	.0057147	.0844081	.3208460	.0000125
Stddev	.0007299	.0090656	.0004260	.0266597	.0003895	.0000293
%RSD	274.5554	30.35599	7.453849	31.58435	.1214035	234.7149
#1	-.000250	.0362746	.0060159	.1032594	.3205706	-.000008
#2	.000782	.0234539	.0054135	.0655568	.3211214	.000033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006673	357.2568	.0005542	.0271967	-.000384	.0008792
Stddev	.000733	1.3343	.0001718	.0071572	.000082	.0002318
%RSD	10.98759	.3734932	31.00762	26.31639	21.38663	26.36029
#1	-.006154	356.3132	.0006757	.0221358	-.000442	.0007153
#2	-.007191	358.2003	.0004327	.0322576	-.000326	.0010431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023066	126.2208	7.922299	.0779398	9.283615	2.339396
Stddev	.0001400	.3253	.019375	.0001301	.081872	.006125
%RSD	6.069593	.2576906	.2445620	.1669099	.8818984	.2618320
#1	.0022076	125.9908	7.908599	.0780317	9.225723	2.335065
#2	.0024057	126.4508	7.935999	.0778478	9.341508	2.343728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147844-b-11-d Acquired: 7/16/2018 18:57:08 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231131	F 1350.660	.0041110	F -.005153	.0026014	.0071189
Stddev	.0053235	4.603	.0057323	.003634	.0025520	.0012027
%RSD	23.03245	.3407661	139.4379	70.53209	98.10139	16.89484
#1	.0268774	1353.915	.0081643	-.002583	.0044060	.0079694
#2	.0193488	1347.406	.0000577	-.007723	.0007969	.0062685
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit		1000.000		100.0000		
Low Limit		-1.00000		-.005000		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.610080	.0044573	.9747783	-.002241	-.004850	.0016447
Stddev	2.144120	.0001073	.0012517	.000203	.000601	.0002951
%RSD	28.17473	2.407642	.1284107	9.076879	12.39072	17.94330
#1	9.126202	.0043815	.9738932	-.002097	-.005275	.0018534
#2	6.093959	.0045332	.9756634	-.002385	-.004425	.0014361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0551318
Stddev	.0135774
%RSD	24.62715
#1	.0647325
#2	.0455311
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-147844-b-11-d Acquired: 7/16/2018 18:57:08 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1788.703	1150.974	7585.282	4042.523
Stddev	328.949	225.970	2.562	9.016
%RSD	18.39038	19.63293	.0337715	.2230401
#1	1556.100	991.189	7587.093	4036.148
#2	2021.305	1310.759	7583.471	4048.899

Sample Name: 500-147844-b-18-d Acquired: 7/16/2018 19:01:20 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000309**	**.0191902**	**.0039674**	**.0398438**	**.4778525**	**-.000160**
Stddev	.000211	.0132530	.0001630	.0164660	.0012031	.000147
%RSD	68.29597	69.06110	4.107439	41.32644	.2517610	91.95682
#1	-.000458	.0285615	.0040827	.0514870	.4770019	-.000056
#2	-.000160	.0098189	.0038522	.0282005	.4787032	-.000264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004855**	**510.9365**	**.0013194**	**.0213734**	**-.000246**	**.0022282**
Stddev	.001465	5.1851	.0002583	.0052061	.000301	.0001921
%RSD	30.17399	1.014822	19.57605	24.35761	122.1620	8.619524
#1	-.003819	507.2701	.0015021	.0250547	-.000034	.0020924
#2	-.005891	514.6029	.0011368	.0176922	-.000459	.0023640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030091**	**.1079157**	**2.508219**	**.0093274**	**30.38911**	**.0793564**
Stddev	.0004896	.0598160	.029020	.0007180	.15605	.0003523
%RSD	16.27103	55.42850	1.156986	7.697623	.5134926	.4439952
#1	.0026629	.0656194	2.487699	.0098351	30.27877	.0796055
#2	.0033554	.1502120	2.528739	.0088197	30.49945	.0791072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147844-b-18-d Acquired: 7/16/2018 19:01:20 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008978	F 1388.956	.0089434	-.001146	.0006551	.0078583
Stddev	.0001727	4.461	.0062770	.000045	.0001036	.0040751
%RSD	19.23835	.3212030	70.18574	3.917595	15.81599	51.85798
#1	.0007756	1385.801	.0133819	-.001114	.0005818	.0107398
#2	.0010199	1392.110	.0045049	-.001178	.0007283	.0049767
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.601197	.0026927	.3765792	-.003816	-.002888	.0006410
Stddev	.810341	.0014525	.0001530	.000149	.000206	.0002137
%RSD	31.15261	53.94089	.0406231	3.905755	7.141412	33.33935
#1	3.174194	.0037197	.3764711	-.003710	-.003034	.0004899
#2	2.028200	.0016656	.3766874	-.003921	-.002742	.0007922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0099690
Stddev	.0026393
%RSD	26.47507
#1	.0118353
#2	.0081027
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-147844-b-18-d Acquired: 7/16/2018 19:01:20 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1779.964	1151.675	7478.526	3995.415
Stddev	364.858	248.923	3.608	24.349
%RSD	20.49806	21.61402	.0482413	.6094116
#1	1521.970	975.659	7475.975	4012.632
#2	2037.958	1327.690	7481.077	3978.198

Sample Name: 500-147844-b-19-c Acquired: 7/16/2018 19:05:32 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000133**	**.0262341**	**.0022381**	**.0413472**	**.5104163**	**-.000270**
Stddev	.000608	.0009852	.0021591	.0157407	.0008864	.000009
%RSD	455.9518	3.755573	96.46941	38.06960	.1736652	3.270499
#1	-.000563	.0269308	.0007114	.0524775	.5097895	-.000264
#2	.000297	.0255375	.0037648	.0302168	.5110431	-.000276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007174**	**551.2160**	**.0013421**	**.0246001**	**-.000752**	**.0013681**
Stddev	.000299	1.3526	.0002479	.0046853	.000441	.0006034
%RSD	4.162749	.2453929	18.47452	19.04575	58.67806	44.10857
#1	-.007385	550.2595	.0015174	.0279131	-.001064	.0009414
#2	-.006963	552.1725	.0011668	.0212871	-.000440	.0017948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030313**	**.0314184**	**2.508144**	**.0094077**	**45.31965**	**.0285332**
Stddev	.0001151	.0467503	.027646	.0001608	.02271	.0001105
%RSD	3.798840	148.7991	1.102264	1.708822	.0501016	.3873996
#1	.0031127	-.001639	2.488595	.0095214	45.30360	.0284551
#2	.0029498	.064476	2.527693	.0092940	45.33571	.0286114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147844-b-19-c Acquired: 7/16/2018 19:05:32 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005281	F 1344.891	.0088095	.0032158	.0004209	.0041513
Stddev	.0000337	6.960	.0063792	.0016017	.0021068	.0012079
%RSD	6.379373	.5175013	72.41328	49.80543	500.5363	29.09642
#1	.0005042	1349.812	.0133203	.0020833	.0019107	.0032972
#2	.0005519	1339.969	.0042987	.0043484	-.001069	.0050054
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.389180	.0036155	.3848815	-.004269	-.004074	.0006087
Stddev	.701215	.0015684	.0000837	.000263	.001564	.0000026
%RSD	29.34961	43.37941	.0217512	6.152175	38.40161	.4280091
#1	2.885014	.0047244	.3848223	-.004455	-.005180	.0006106
#2	1.893346	.0025064	.3849407	-.004084	-.002968	.0006069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.1038608
Stddev	.0277096
%RSD	26.67958
#1	.1234545
#2	.0842671
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-147844-b-19-c Acquired: 7/16/2018 19:05:32 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1762.058	1142.203	7471.077	3968.819
Stddev	343.013	232.847	8.597	4.460
%RSD	19.46659	20.38577	.1150693	.1123857
#1	1519.512	977.556	7464.998	3965.665
#2	2004.605	1306.851	7477.156	3971.973

Sample Name: 500-147844-b-28-c Acquired: 7/16/2018 19:09:44 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005169	.0345219	.0020161	.0663768	.1582166	.0002001
Stddev	.0000092	.0062042	.0021617	.0012708	.0001189	.0002390
%RSD	1.789001	17.97176	107.2221	1.914449	.0751256	119.4286
#1	.0005235	.0389089	.0035446	.0654783	.1583007	.0000311
#2	.0005104	.0301349	.0004875	.0672754	.1581326	.0003691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007058	310.5586	.0019237	.0033870	.0160051	.0005080
Stddev	.002767	.9108	.0002404	.0061875	.0002732	.0002009
%RSD	39.20372	.2932851	12.49805	182.6845	1.706753	39.53793
#1	-.009015	309.9146	.0020937	-.000988	.0161982	.0003660
#2	-.005102	311.2027	.0017537	.007762	.0158119	.0006501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072128	.4625581	2.959895	.0081496	107.4402	1.345287
Stddev	.0002640	.0191704	.010579	.0006334	.5477	.001491
%RSD	3.660719	4.144428	.3574037	7.772229	.5098144	.1108332
#1	.0070261	.4490026	2.952415	.0085975	107.0529	1.344232
#2	.0073996	.4761136	2.967375	.0077017	107.8275	1.346341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147844-b-28-c Acquired: 7/16/2018 19:09:44 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026695	F 1250.314	.0286245	.0002962	.0015049	.0080728
Stddev	.0000878	5.604	.0009896	.0009304	.0015652	.0014848
%RSD	3.289943	.4481861	3.457004	314.1585	104.0087	18.39329
#1	.0027316	1254.276	.0279248	-.000362	.0003981	.0070228
#2	.0026074	1246.351	.0293242	.000954	.0026117	.0091227
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.071192	.0015848	.4375378	-.002072	-.004329	.0018710
Stddev	.014676	.0013096	.0000902	.000151	.000079	.0004612
%RSD	.7085788	82.63292	.0206254	7.265220	1.827072	24.65205
#1	2.060814	.0025108	.4376016	-.001966	-.004273	.0015448
#2	2.081569	.0006588	.4374740	-.002178	-.004385	.0021971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	1.405730
Stddev	.005561
%RSD	.3955870
#1	1.401798
#2	1.409662
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-147844-b-28-c Acquired: 7/16/2018 19:09:44 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1546.768	989.2973	7574.642	4020.396
Stddev	.718	2.4976	9.428	3.671
%RSD	.0463930	.2524670	.1244707	.0913068
#1	1546.260	991.0634	7581.309	4017.801
#2	1547.275	987.5312	7567.975	4022.992

Sample Name: 500-148332-e-1-e Acquired: 7/16/2018 19:13:48 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000236**	**.0226899**	**.0032492**	**.0889487**	**.4638405**	**-.000142**
Stddev	.000265	.0100739	.0007435	.0247534	.0001344	.000415
%RSD	112.3440	44.39823	22.88222	27.82881	.0289807	292.0641
#1	-.000048	.0155666	.0037749	.1064520	.4637455	.000151
#2	-.000423	.0298133	.0027234	.0714454	.4639356	-.000436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008012**	F **622.1556**	**.0029769**	**.0213390**	**-.000182**	**.0029216**
Stddev	.000266	6.2002	.0007055	.0036150	.000245	.0005190
%RSD	3.323601	.9965609	23.69884	16.94094	134.6666	17.76352
#1	-.007824	617.7714	.0034757	.0238952	-.000355	.0032886
#2	-.008201	626.5398	.0024780	.0187828	-.000009	.0025546
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0058749**	**.0374901**	**7.840651**	**.0182299**	**26.46160**	**.5798264**
Stddev	.0001691	.0102651	.003717	.0000341	.02166	.0020062
%RSD	2.877672	27.38086	.0474099	.1872921	.0818705	.3459987
#1	.0057553	.0302315	7.838023	.0182541	26.47692	.5784078
#2	.0059944	.0447486	7.843280	.0182058	26.44628	.5812450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148332-e-1-e Acquired: 7/16/2018 19:13:48 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051678	F 1359.105	.0110687	.0030753	.0023502	.0054391
Stddev	.0013537	2.347	.0057447	.0016891	.0037469	.0015145
%RSD	26.19582	.1726916	51.90037	54.92489	159.4255	27.84524
#1	.0061250	1357.445	.0151309	.0042697	.0049997	.0065100
#2	.0042105	1360.764	.0070066	.0018809	-.000299	.0043682
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.252197	.0017415	.6706042	-.004988	-.005383	.0028252
Stddev	1.975511	.0010014	.0020154	.000042	.003397	.0008536
%RSD	23.93921	57.50254	.3005312	.8473356	63.11124	30.21458
#1	9.649094	.0024496	.6691791	-.004959	-.007785	.0034288
#2	6.855300	.0010334	.6720293	-.005018	-.002981	.0022216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0810765
Stddev	.0189080
%RSD	23.32118
#1	.0944465
#2	.0677066
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148332-e-1-e Acquired: 7/16/2018 19:13:48 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1719.450	1116.050	7481.796	3978.189
Stddev	296.479	200.004	23.324	7.654
%RSD	17.24265	17.92069	.3117409	.1923924
#1	1509.807	974.626	7498.288	3983.601
#2	1929.092	1257.475	7465.303	3972.777

Sample Name: CCV Acquired: 7/16/2018 19:17:59 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5089521	49.54340	.5013807	.4835429	.4818696	.5027117
Stddev	.0001661	.15464	.0000737	.0010607	.0013428	.0006840
%RSD	.0326313	.3121293	.0147028	.2193556	.2786569	.1360723
#1	.5088346	49.43405	.5014328	.4827929	.4809201	.5022280
#2	.5090695	49.65274	.5013285	.4842929	.4828191	.5031954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5090614	26.30875	.5011136	F -.026062	.5097662	.4853583
Stddev	.0032759	.00116	.0002516	.001319	.0021850	.0024873
%RSD	.6435244	.0044271	.0502049	5.062273	.4286176	.5124684
#1	.5067450	26.30792	.5009357	-.026995	.5082212	.4871171
#2	.5113779	26.30957	.5012915	-.025129	.5113112	.4835995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4987528	25.88580	48.20444	3.831992	24.97734	4.893803
Stddev	.0002727	.11843	.08282	.017001	.03178	.015724
%RSD	.0546738	.4575215	.1718067	.4436649	.1272510	.3213136
#1	.4989456	25.80206	48.14588	3.819970	24.95487	4.882684
#2	.4985599	25.96955	48.26300	3.844013	24.99982	4.904922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 7/16/2018 19:17:59 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4788825**	**25.29325**	**.5029810**	**.5255877**	**.4663190**	**.4949332**
Stddev	.0011286	.06916	.0018002	.0018857	.0002989	.0025480
%RSD	.2356786	.2734393	.3579006	.3587745	.0640879	.5148158
#1	.4780845	25.24435	.5017081	.5242543	.4661077	.4931315
#2	.4796806	25.34216	.5042539	.5269211	.4665303	.4967349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4684180**	**.5233803**	**.4992574**	**.4980570**	**.4972407**	**5.137633**
Stddev	.0028242	.0008681	.0007308	.0002177	.0024314	.011968
%RSD	.6029308	.1658622	.1463828	.0437039	.4889875	.2329427
#1	.4704151	.5227664	.4997742	.4982109	.4955214	5.129171
#2	.4664210	.5239941	.4987406	.4979031	.4989600	5.146096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	**.5226998**
Stddev	.0012752
%RSD	.2439730
#1	.5217981
#2	.5236016
Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 7/16/2018 19:17:59 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2015.323	1197.893	9076.792	4363.962
Stddev	6.719	.880	11.219	.504
%RSD	.3333930	.0734948	.1235963	.0115566
#1	2020.074	1198.516	9084.724	4364.318
#2	2010.572	1197.271	9068.859	4363.605

Sample Name: CCB Acquired: 7/16/2018 19:21:50 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000223**	**-.009994**	**.0002521**	**-.009160**	**-.000185**	**-.000279**	**.0002783**
Stddev	.000094	.009409	.0010255	.000656	.000037	.000121	.0001339
%RSD	42.15635	94.14633	406.8215	7.158242	20.21960	43.50155	48.09831
#1	-.000157	-.003341	-.000473	-.008696	-.000212	-.000365	.0003730
#2	-.000290	-.016648	.000977	-.009623	-.000159	-.000193	.0001837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0148973**	**.0000285**	**.0023311**	**.0002451**	**-.000024**	**-.000675**	**.0144612**
Stddev	.0059642	.0001154	.0015984	.0001217	.000092	.000182	.0681536
%RSD	40.03587	404.9950	68.56793	49.64937	381.8242	26.92272	471.2862
#1	.0191146	.0001101	.0034613	.0003311	-.000089	-.000546	-.033731
#2	.0106799	-.000053	.0012009	.0001590	.000041	-.000803	.062653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0319950**	**.0006619**	**-.002702**	**.0003930**	**.0000227**	**.2603746**	**.0008950**
Stddev	.0026586	.0001480	.005675	.0002758	.0002868	.0015726	.0007732
%RSD	8.309554	22.35707	210.0329	70.15523	1262.541	.6039866	86.38459
#1	.0301151	.0007666	.001311	.0005880	-.000180	.2614866	.0014417
#2	.0338750	.0005573	-.006715	.0001981	.000226	.2592626	.0003483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/16/2018 19:21:50 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002220	.0008249	-.000004	.0028540	.0003586	.0000224	-.000161
Stddev	.001075	.0006686	.003389	.0015636	.0000344	.0000219	.000132
%RSD	48.44751	81.05187	75410.33	54.78553	9.603936	97.69257	81.93872
#1	-.002980	.0012977	.002392	.0017484	.0003343	.0000379	-.000254
#2	-.001459	.0003521	-.002401	.0039597	.0003830	.0000069	-.000068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0007598	.0004824	.0002726
Stddev	.0002182	.0000658	.0002097
%RSD	28.71759	13.63472	76.94588
#1	.0009141	.0005290	.0004209
#2	.0006055	.0004359	.0001243
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2167.666	1219.486	9343.728	4382.337
Stddev	8.965	6.266	23.962	5.501
%RSD	.4135575	.5137855	.2564484	.1255221
#1	2174.005	1223.917	9360.672	4378.447
#2	2161.328	1215.056	9326.785	4386.226

Sample Name: 500-148332-e-2-e Acquired: 7/16/2018 19:25:55 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002667	.0452735	.0031241	.0511383	.2804006	-.000388
Stddev	.0001645	.0034904	.0012722	.0012533	.0003882	.000420
%RSD	61.67714	7.709665	40.72270	2.450706	.1384409	108.1141
#1	.0003830	.0428054	.0040237	.0502521	.2801262	-.000685
#2	.0001504	.0477416	.0022245	.0520245	.2806751	-.000091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007263	372.3999	.0016135	.0187169	.0411957	.0009646
Stddev	.000914	1.1931	.0000331	.0094892	.0001043	.0007207
%RSD	12.58240	.3203697	2.049246	50.69832	.2531077	74.71262
#1	-.006617	371.5563	.0016369	.0254268	.0412695	.0004550
#2	-.007909	373.2435	.0015901	.0120071	.0411220	.0014742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0212764	.0150405	6.081048	.0095291	62.67750	1.671860
Stddev	.0000930	.0508590	.049048	.0002305	.28118	.004925
%RSD	.4373255	338.1459	.8065669	2.418502	.4486093	.2945525
#1	.0213422	.0510033	6.046366	.0093661	62.47868	1.668378
#2	.0212106	-.020922	6.115730	.0096920	62.87632	1.675342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148332-e-2-e Acquired: 7/16/2018 19:25:55 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068594	F 1256.067	.0627480	.0019675	.0014416	.0056280
Stddev	.0001410	4.647	.0012915	.0015531	.0008613	.0026664
%RSD	2.056216	.3699381	2.058164	78.93681	59.74423	47.37725
#1	.0069591	1259.353	.0636612	.0030657	.0008326	.0037426
#2	.0067596	1252.782	.0618348	.0008693	.0020506	.0075134
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.393684	.0031962	.3799896	-.002488	-.004294	.0002018
Stddev	.024114	.0003563	.0010703	.000054	.001339	.0001218
%RSD	.3771571	11.14675	.2816633	2.176781	31.18706	60.33782
#1	6.376633	.0029443	.3807464	-.002527	-.005241	.0002879
#2	6.410735	.0034482	.3792328	-.002450	-.003347	.0001157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0394744
Stddev	.0002032
%RSD	.5146356
#1	.0396181
#2	.0393308
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148332-e-2-e Acquired: 7/16/2018 19:25:55 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1545.155	991.6181	7614.001	4022.278
Stddev	3.034	4.4209	35.013	3.542
%RSD	.1963680	.4458223	.4598521	.0880489
#1	1547.301	994.7441	7589.243	4019.774
#2	1543.010	988.4921	7638.759	4024.782

Sample Name: 500-148287-b-56-b Acquired: 7/16/2018 19:30:01 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006130	.0235939	.8959496	.0206505	.1825459	-.000310
Stddev	.0004331	.0039633	.3016697	.0105430	.0000750	.000190
%RSD	70.64407	16.79799	33.67038	51.05420	.0410913	61.12777
#1	.0009192	.0207914	1.109262	.0281056	.1824929	-.000445
#2	.0003068	.0263964	.682637	.0131955	.1825989	-.000176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005152	579.6051	-.000613	.0107096	.0025221	.0002605
Stddev	.001044	2.4476	.000368	.0021923	.0005786	.0002546
%RSD	20.26409	.4222878	59.96994	20.47023	22.93942	97.74652
#1	-.005890	577.8744	-.000873	.0091595	.0029313	.0000805
#2	-.004414	581.3358	-.000353	.0122598	.0021130	.0004406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037175	.0471744	1.450092	.0071620	10.56494	1.963607
Stddev	.0004451	.0355029	.008435	.0002153	.00527	.003012
%RSD	11.97223	75.25888	.5816578	3.005590	.0499157	.1534001
#1	.0040322	.0722788	1.444128	.0073142	10.56121	1.965736
#2	.0034028	.0220700	1.456056	.0070098	10.56867	1.961477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148287-b-56-b Acquired: 7/16/2018 19:30:01 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000045	F 1331.494	.0081508	-.000332	.0056176	.0051734
Stddev	.000354	16.988	.0077334	.000793	.0031507	.0008836
%RSD	792.6561	1.275835	94.87874	239.1137	56.08536	17.07936
#1	-.000295	1343.506	.0136192	-.000893	.0078455	.0057982
#2	.000206	1319.481	.0026825	.000229	.0033898	.0045486
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9121361	.0036542	.5961960	-.004758	-.003355	.0028098
Stddev	.2931888	.0003520	.0007645	.000025	.004452	.0002763
%RSD	32.14310	9.632859	.1282272	.5312008	132.7090	9.832233
#1	1.119452	.0039032	.5967366	-.004741	-.006503	.0026144
#2	.704820	.0034053	.5956555	-.004776	-.000207	.0030051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0529408
Stddev	.0160219
%RSD	30.26372
#1	.0642699
#2	.0416116
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148287-b-56-b Acquired: 7/16/2018 19:30:01 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1820.792	1182.893	7515.003	4010.596
Stddev	418.592	278.580	13.243	16.851
%RSD	22.98955	23.55073	.1762215	.4201512
#1	1524.803	985.908	7505.639	3998.681
#2	2116.781	1379.879	7524.367	4022.511

Sample Name: 500-148287-a-57-b Acquired: 7/16/2018 19:34:14 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006623**	**.0104629**	**.0626160**	**.0236879**	**.3601735**	**-.000146**
Stddev	.0002285	.0174337	.0218806	.0113670	.0003123	.000384
%RSD	34.49411	166.6242	34.94415	47.98640	.0867054	263.7940
#1	.0008239	-.001865	.0780879	.0317255	.3599527	.000126
#2	.0005008	.022790	.0471440	.0156502	.3603943	-.000418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.006248**	F **615.1812**	**.0005436**	F **-.019717**	**.0038869**	**.0015470**
Stddev	.000980	6.0006	.0001312	.002045	.0012695	.0002518
%RSD	15.68810	.9754173	24.13885	10.37238	32.66197	16.27387
#1	-.005555	610.9381	.0004508	-.018271	.0047846	.0013690
#2	-.006941	619.4242	.0006364	-.021163	.0029892	.0017251
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit		600.0000		10.00000		
Low Limit		-.200000		-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025099**	**.0989598**	**1.598482**	**.0085684**	**14.53851**	**7.597116**
Stddev	.0000406	.0304417	.026021	.0000208	.14805	.048131
%RSD	1.615529	30.76173	1.627853	.2429174	1.018303	.6335444
#1	.0025386	.1204854	1.580083	.0085537	14.43383	7.563082
#2	.0024812	.0774342	1.616882	.0085831	14.64320	7.631150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148287-a-57-b Acquired: 7/16/2018 19:34:14 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000167	F 1342.549	.0079140	.0000873	.0012549	.0058489
Stddev	.000010	4.180	.0062989	.0009539	.0001840	.0014590
%RSD	6.279448	.3113219	79.59168	1092.071	14.66042	24.94573
#1	-.000175	1339.594	.0123680	-.000587	.0013850	.0068806
#2	-.000160	1345.505	.0034600	.000762	.0011248	.0048172
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.209111	.0021539	.6042874	F -.005328	-.006729	.0009733
Stddev	.703296	.0001857	.0009864	.000048	.004358	.0000800
%RSD	31.83617	8.623011	.1632299	.9076336	64.75673	8.218077
#1	2.706417	.0020225	.6035899	-.005362	-.009810	.0009168
#2	1.711805	.0022852	.6049848	-.005293	-.003648	.0010299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				5.000000		
Low Limit				-.005000		

Elem	Zn2062
Units	ppm
Avg	.0308578
Stddev	.0088723
%RSD	28.75243
#1	.0371315
#2	.0245841
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148287-a-57-b Acquired: 7/16/2018 19:34:14 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1790.115	1164.078	7456.482	3977.375
Stddev	393.016	261.285	12.803	13.847
%RSD	21.95477	22.44566	.1717077	.3481468
#1	1512.211	979.322	7465.536	3987.167
#2	2068.019	1348.834	7447.429	3967.584

Sample Name: 500-148365-c-1-b Acquired: 7/16/2018 19:38:27 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001685	.0385950	.0021870	.0491964	.3280550	-.000101
Stddev	.0007609	.0162265	.0033734	.0002764	.0002393	.000193
%RSD	451.5625	42.04306	154.2505	.5618503	.0729352	191.3747
#1	.0007066	.0271212	-.000198	.0490010	.3282242	.000036
#2	-.000370	.0500689	.004572	.0493919	.3278858	-.000238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007054	303.7210	.0028187	.0130364	.0155008	.0010290
Stddev	.001069	1.4987	.0000994	.0154436	.0001097	.0006336
%RSD	15.14817	.4934533	3.528071	118.4648	.7076098	61.57947
#1	-.007809	302.6612	.0027483	.0239566	.0155783	.0005809
#2	-.006298	304.7807	.0028890	.0021162	.0154232	.0014770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040731	-.005441	2.312355	.0070248	109.1429	1.916796
Stddev	.0001368	.017375	.009306	.0003015	.1277	.005267
%RSD	3.358209	319.3397	.4024507	4.291303	.1169588	.2748059
#1	.0041698	.006845	2.318936	.0072379	109.0526	1.913071
#2	.0039763	-.017726	2.305775	.0068116	109.2331	1.920521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148365-c-1-b Acquired: 7/16/2018 19:38:27 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000934	F 1284.757	.0233269	-.001701	.0008167	.0053815
Stddev	.0002129	.301	.0009843	.002738	.0000667	.0020281
%RSD	227.8184	.0233984	4.219523	161.0239	8.167363	37.68605
#1	-.000057	1284.545	.0226310	.000236	.0007696	.0068155
#2	.000244	1284.970	.0240229	-.003637	.0008639	.0039474
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.984271	.0035643	.2164028	-.001963	-.004085	.0012311
Stddev	.000640	.0007130	.0006165	.000207	.000493	.0003986
%RSD	.0322360	20.00444	.2848686	10.53883	12.05647	32.37314
#1	1.984723	.0040684	.2168387	-.001817	-.003737	.0015130
#2	1.983819	.0030601	.2159668	-.002110	-.004434	.0009493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.1327809
Stddev	.0000355
%RSD	.0267262
#1	.1328060
#2	.1327558
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148365-c-1-b Acquired: 7/16/2018 19:38:27 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1545.551	989.5124	7529.623	3991.297
Stddev	5.059	2.2577	28.485	4.998
%RSD	.3273167	.2281667	.3783004	.1252156
#1	1541.974	987.9160	7509.482	3987.763
#2	1549.128	991.1089	7549.765	3994.831

Sample Name: 500-148365-c-1-bSD@5 Acquired: 7/16/2018 19:42:32 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000170**	**.0183249**	**.0019410**	**.0026119**	**.0658615**	**.0000600**	**-.003085**
Stddev	.000801	.0036123	.0007288	.0003327	.0003474	.0001702	.000014
%RSD	469.6882	19.71276	37.54615	12.73888	.5275315	283.7964	.4576194
#1	-.000737	.0208792	.0014257	.0028472	.0661072	-.000060	-.003075
#2	.000396	.0157705	.0024563	.0023767	.0656158	.000180	-.003095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**63.03603**	**.0005934**	**-.004162**	**.0033382**	**.0002091**	**.0004502**	**.0096521**
Stddev	.09300	.0000759	.012378	.0004946	.0004427	.0001880	.0081056
%RSD	.1475270	12.79803	297.3967	14.81641	211.7317	41.75318	83.97759
#1	63.10179	.0005397	-.012914	.0036879	.0005222	.0005832	.0153837
#2	62.97028	.0006471	.004590	.0029884	-.000104	.0003173	.0039206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4146142**	**.0016446**	**21.89272**	**.3975632**	**-.000127**	**267.1302**	**.0064035**
Stddev	.0086384	.0003349	.04194	.0008966	.000091	3.6870	.0013738
%RSD	2.083472	20.36106	.1915522	.2255212	71.69421	1.380219	21.45444
#1	.4085059	.0018814	21.86307	.3969292	-.000192	264.5231	.0073749
#2	.4207224	.0014078	21.92237	.3981971	-.000063	269.7373	.0054320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148365-c-1-bSD@5 Acquired: 7/16/2018 19:42:32 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015065	-.000033	.0019991	.3887807	.0009229	.0446034	-.000114
Stddev	.0009225	.001123	.0012800	.0027306	.0000048	.0000706	.000002
%RSD	61.22984	3423.162	64.02761	.7023562	.5240179	.1584064	1.808073
#1	.0008543	.000761	.0010940	.3907116	.0009195	.0446533	-.000113
#2	.0021588	-.000827	.0029042	.3868499	.0009263	.0445534	-.000116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001558	-.000040	.0266303
Stddev	.000613	.000010	.0007717
%RSD	39.35040	24.67345	2.897673
#1	-.001992	-.000033	.0271759
#2	-.001125	-.000047	.0260846
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1894.809	1137.855	8576.075	4239.325
Stddev	21.296	14.097	12.811	10.444
%RSD	1.123898	1.238905	.1493765	.2463715
#1	1879.750	1127.887	8585.133	4231.939
#2	1909.867	1147.823	8567.016	4246.710

Sample Name: 500-148365-c-1-c du Acquired: 7/16/2018 19:46:39 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000019	.0147981	.0014231	.0519026	.3403916	.0000383
Stddev	.000345	.0069738	.0004962	.0004420	.0002384	.0001844
%RSD	1843.766	47.12621	34.87069	.8516343	.0700377	480.8888
#1	-.000262	.0098669	.0017740	.0515900	.3405602	-.000092
#2	.000225	.0197294	.0010722	.0522152	.3402230	.000169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005693	311.3144	.0029844	.0082571	.0157578	-.000629
Stddev	.001124	1.0419	.0001401	.0189527	.0010543	.000914
%RSD	19.74567	.3346690	4.694299	229.5321	6.690310	145.2079
#1	-.004898	310.5777	.0028853	-.005144	.0165033	.000017
#2	-.006488	312.0511	.0030835	.021659	.0150124	-.001275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040595	.0377443	2.358437	.0069618	112.2033	1.974459
Stddev	.0000330	.0078981	.006644	.0007830	.6965	.005030
%RSD	.8127386	20.92540	.2817079	11.24765	.6207242	.2547583
#1	.0040362	.0433291	2.363135	.0075155	111.7108	1.970902
#2	.0040829	.0321594	2.353739	.0064081	112.6958	1.978016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148365-c-1-c du Acquired: 7/16/2018 19:46:39 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000335	F 1342.295	.0224365	-.001855	-.000459	.0064086
Stddev	.0002165	7.321	.0004874	.006838	.000296	.0010470
%RSD	646.9242	.5453976	2.172358	368.5507	64.61521	16.33670
#1	.0001866	1347.472	.0227811	.002980	-.000668	.0071489
#2	-.000120	1337.119	.0220918	-.006691	-.000249	.0056683
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.059089	.0021092	.2247356	-.001986	-.004116	.0011065
Stddev	.001489	.0007148	.0007472	.000010	.002429	.0000319
%RSD	.0723293	33.88698	.3324659	.4877722	58.99863	2.882737
#1	2.060142	.0016038	.2252640	-.001979	-.002399	.0011291
#2	2.058036	.0026146	.2242073	-.001993	-.005834	.0010840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.1373753
Stddev	.0016024
%RSD	1.166420
#1	.1362422
#2	.1385083
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148365-c-1-c du Acquired: 7/16/2018 19:46:39 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1532.182	981.7104	7471.099	4011.342
Stddev	.118	2.5940	23.003	9.097
%RSD	.0076893	.2642370	.3078905	.2267755
#1	1532.265	979.8761	7454.833	4017.774
#2	1532.098	983.5446	7487.364	4004.909

Sample Name: 500-148365-c-1-d ms Acquired: 7/16/2018 19:50:45 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0487928	1.810763	.0942626	.8538368	2.040977	.0439229
Stddev	.0000875	.009971	.0047709	.0281698	.001748	.0001054
%RSD	.1793977	.5506568	5.061234	3.299201	.0856387	.2399888
#1	.0487309	1.803712	.0976361	.8737559	2.039741	.0439974
#2	.0488547	1.817813	.0908891	.8339178	2.042213	.0438483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4953190	303.1880	.0489297	.0049435	.4672417	.1678004
Stddev	.0143840	.7176	.0017916	.0074905	.0128992	.0002161
%RSD	2.903989	.2367013	3.661470	151.5224	2.760722	.1287903
#1	.5054901	302.6805	.0501965	.0102400	.4763628	.1679532
#2	.4851480	303.6954	.0476629	-.000353	.4581205	.1676476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2523672	.8963786	11.50044	.4625923	114.9025	2.288950
Stddev	.0003629	.0084672	.02232	.0002401	.2268	.002713
%RSD	.1437817	.9446041	.1941166	.0519023	.1973620	.1185157
#1	.2526238	.8903914	11.48465	.4624225	114.7422	2.287032
#2	.2521106	.9023658	11.51622	.4627621	115.0629	2.290869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148365-c-1-d ms Acquired: 7/16/2018 19:50:45 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8353111	F 1255.648	.4582400	.0905088	.4182147	.0801700
Stddev	.0279293	.610	.0156425	.0040944	.0134582	.0005501
%RSD	3.343578	.0486089	3.413602	4.523803	3.217999	.6861743
#1	.8550601	1255.217	.4693009	.0934040	.4277311	.0797810
#2	.8155622	1256.080	.4471791	.0876136	.4086984	.0805590
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.154375	.9425396	1.062174	.8974829	.0751775	.4630478
Stddev	.189227	.0288769	.000198	.0017493	.0004812	.0007494
%RSD	3.074678	3.063737	.0186368	.1949152	.6400610	.1618498
#1	6.288179	.9629587	1.062314	.8987199	.0755177	.4635777
#2	6.020571	.9221205	1.062034	.8962460	.0748372	.4625179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.5361719
Stddev	.0160211
%RSD	2.988058
#1	.5475006
#2	.5248433
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148365-c-1-d ms Acquired: 7/16/2018 19:50:45 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1574.161	1015.825	7612.777	4040.951
Stddev	42.385	29.030	7.345	6.895
%RSD	2.692538	2.857802	.0964832	.1706166
#1	1544.190	995.297	7607.583	4036.076
#2	1604.131	1036.352	7617.971	4045.826

Sample Name: lb2 500-440849/1-b Acquired: 7/16/2018 19:54:50 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000200**	**.0129805**	**-.000314**	**.0103325**	**.0006444**	**-.000103**
Stddev	.000125	.0026142	.001104	.0000276	.0000471	.000078
%RSD	62.30677	20.13968	351.8757	.2675089	7.312066	75.45754
#1	-.000112	.0148290	.000467	.0103521	.0006111	-.000158
#2	-.000288	.0111319	-.001095	.0103130	.0006777	-.000048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008601**	**.2211538**	**.0006287**	F **-.006252**	**-.000555**	**.0010550**
Stddev	.001225	.0000311	.0000601	.000949	.000188	.0004494
%RSD	14.24750	.0140534	9.568420	15.18082	33.92048	42.59118
#1	-.009467	.2211758	.0006712	-.006923	-.000688	.0013728
#2	-.007734	.2211319	.0005861	-.005580	-.000422	.0007373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				10.00000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004225**	**-.021668**	**.0457260**	**.0003994**	**.0478780**	**.0007985**
Stddev	.0001372	.014977	.0080194	.0004120	.0098077	.0002383
%RSD	32.47493	69.12171	17.53790	103.1488	20.48484	29.84434
#1	.0005196	-.011077	.0400554	.0006907	.0409429	.0009670
#2	.0003255	-.032258	.0513966	.0001081	.0548131	.0006300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: Ib2 500-440849/1-b Acquired: 7/16/2018 19:54:50 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002726	1.060451	-.002459	-.003239	.0046778	.0083486
Stddev	.0002556	.013668	.001547	.002018	.0013776	.0008327
%RSD	93.76293	1.288866	62.92380	62.29533	29.45018	9.974106
#1	.0000919	1.070116	-.003554	-.004666	.0037037	.0089374
#2	.0004534	1.050787	-.001365	-.001813	.0056520	.0077598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1839240	-.000051	.0002879	.0002604	-.005692	.0001635
Stddev	.0028329	.000513	.0000037	.0002053	.001831	.0000502
%RSD	1.540264	1013.066	1.287864	78.85052	32.16213	30.71807
#1	.1819208	-.000414	.0002905	.0004056	-.006987	.0001990
#2	.1859271	.000312	.0002853	.0001152	-.004398	.0001280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0053285
Stddev	.0002357
%RSD	4.423817
#1	.0054952
#2	.0051619
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: lb2 500-440849/1-b Acquired: 7/16/2018 19:54:50 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2151.613	1189.805	9327.059	4444.030
Stddev	4.027	4.008	10.905	2.835
%RSD	.1871658	.3368457	.1169173	.0637954
#1	2154.461	1192.639	9319.348	4446.034
#2	2148.766	1186.971	9334.770	4442.025

Sample Name: 500-148299-a-1-b Acquired: 7/16/2018 19:58:54 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000596**	**.0777281**	**.0030500**	**.1336037**	**.4575448**	**-.000257**
Stddev	.000504	.0154715	.0053533	.0478181	.0003007	.000035
%RSD	84.51260	19.90465	175.5159	35.79103	.0657267	13.72323
#1	-.000952	.0667881	-.000735	.1674162	.4577574	-.000282
#2	-.000240	.0886682	.006835	.0997911	.4573321	-.000232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007460**	F **1629.403**	**.0003874**	**.0341369**	**-.000212**	**.1554735**
Stddev	.000072	10.250	.0001574	.0149192	.000211	.0017212
%RSD	.9683671	.6290883	40.62506	43.70398	99.42841	1.107099
#1	-.007409	1622.155	.0004987	.0235874	-.000063	.1542564
#2	-.007511	1636.651	.0002761	.0446863	-.000361	.1566906
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036592**	**.0389440**	**127.6639**	**.2524143**	**.8827073**	**.0007814**
Stddev	.0005097	.0073116	.1144	.0007623	.0404984	.0002511
%RSD	13.92933	18.77468	.0895798	.3019912	4.587972	32.13749
#1	.0032988	.0337739	127.7448	.2518753	.8540706	.0009589
#2	.0040196	.0441140	127.5831	.2529533	.9113440	.0006038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148299-a-1-b Acquired: 7/16/2018 19:58:54 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1556667**	**101.8161**	**.0038845**	F **-.005271**	**.0044153**	**.0193902**
Stddev	.0490524	.0565	.0041539	.002565	.0055832	.0060236
%RSD	31.51116	.0554780	106.9355	48.65950	126.4516	31.06509
#1	.1903520	101.8561	.0068217	-.007084	.0083632	.0236495
#2	.1209814	101.7762	.0009472	-.003457	.0004674	.0151309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				100.0000		
Low Limit				-.005000		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.244601**	**.0024211**	F **3.466526**	F **-.017105**	**-.000382**	**.0685948**
Stddev	3.161528	.0010224	.006308	.000199	.000349	.0002271
%RSD	38.34665	42.23029	.1819803	1.160894	91.41633	.3311152
#1	10.48014	.0031441	3.462066	-.017246	-.000629	.0684342
#2	6.00906	.0016981	3.470987	-.016965	-.000135	.0687554
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit			2.000000	5.000000		
Low Limit			-.005000	-.005000		

Elem	Zn2062
Units	ppm
Avg	**.0027430**
Stddev	.0014733
%RSD	53.71137
#1	.0037848
#2	.0017012
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148299-a-1-b Acquired: 7/16/2018 19:58:54 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1884.335	1188.435	7744.908	3996.709
Stddev	398.360	255.918	.228	15.046
%RSD	21.14059	21.53404	.0029464	.3764600
#1	1602.653	1007.473	7744.747	3986.070
#2	2166.018	1369.396	7745.070	4007.348

Sample Name: lb3 500-440834/1-b Acquired: 7/16/2018 20:03:07 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003761**	**.0097539**	**-.000754**	**-.000226**	**.0001618**	**-.000232**	**-.008214**
Stddev	.0001493	.0040225	.001664	.000294	.0001280	.000011	.000595
%RSD	39.68965	41.24018	220.5105	130.0092	79.13242	4.574581	7.240905
#1	.0004817	.0125982	-.001931	-.000018	.0000712	-.000225	-.007793
#2	.0002706	.0069095	.000422	-.000434	.0002522	-.000240	-.008634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3608745**	**.0006177**	**.0086533**	**-.000755**	**.0007564**	**-.000092**	**.0365776**
Stddev	.0117907	.0000961	.0057442	.000362	.0002793	.000080	.0424954
%RSD	3.267264	15.54916	66.38145	47.99193	36.92836	87.39388	116.1786
#1	.3692118	.0005498	.0045915	-.001011	.0009539	-.000035	.0666264
#2	.3525372	.0006856	.0127150	-.000498	.0005589	-.000149	.0065289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0468615**	**.0004644**	**.0233416**	**.0000200**	**-.000125**	**.7141602**	**-.002248**
Stddev	.0056788	.0004248	.0033716	.0004852	.000179	.0042494	.000203
%RSD	12.11833	91.47501	14.44440	2431.606	143.2766	.5950207	9.043915
#1	.0428460	.0007648	.0209575	.0003631	.000002	.7171649	-.002391
#2	.0508771	.0001640	.0257256	-.000323	-.000251	.7111554	-.002104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: Ib3 500-440834/1-b Acquired: 7/16/2018 20:03:07 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002602**	**.0024807**	**.0042911**	**.0814177**	**-.001638**	**.0006216**	**-.000384**
Stddev	.001374	.0002718	.0012691	.0002310	.000943	.0000132	.000076
%RSD	52.80269	10.95656	29.57418	.2837295	57.55357	2.130219	19.68328
#1	-.003573	.0022885	.0051885	.0815811	-.002305	.0006310	-.000331
#2	-.001630	.0026729	.0033938	.0812544	-.000971	.0006122	-.000438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	**-.004728**	**.0001997**	**.0072933**
Stddev	.000010	.0005638	.0000169
%RSD	.2078617	282.2638	.2322135
#1	-.004735	.0005984	.0072813
#2	-.004721	-.000199	.0073053
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2140.508**	**1198.599**	**9354.238**	**4431.580**
Stddev	21.082	6.724	19.131	13.932
%RSD	.9848830	.5609838	.2045162	.3143893
#1	2155.415	1203.353	9340.711	4421.728
#2	2125.602	1193.844	9367.766	4441.431

Sample Name: CCV Acquired: 7/16/2018 20:07:12 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5165837**	**49.80032**	**.5023384**	**.4815525**	**.4835942**	**.5089956**
Stddev	.0008338	.02758	.0016908	.0030521	.0001277	.0014460
%RSD	.1613980	.0553809	.3365825	.6338134	.0264106	.2840805
#1	.5171732	49.78082	.5011428	.4793943	.4835039	.5079731
#2	.5159941	49.81983	.5035339	.4837107	.4836845	.5100180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5122841**	**26.66036**	**.5055201**	F **-.033722**	**.5141300**	**.4963822**
Stddev	.0003048	.03385	.0015051	.000843	.0009477	.0030514
%RSD	.0595008	.1269523	.2977346	2.499928	.1843299	.6147269
#1	.5124996	26.63642	.5044558	-.033126	.5148001	.4985399
#2	.5120686	26.68429	.5065843	-.034318	.5134599	.4942245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5003782**	**26.30296**	**48.41490**	**3.828789**	**25.25993**	**4.952354**
Stddev	.0018693	.12408	.08436	.009698	.06585	.007315
%RSD	.3735669	.4717233	.1742497	.2532807	.2606761	.1477083
#1	.5016999	26.21522	48.47455	3.835646	25.21337	4.947182
#2	.4990564	26.39069	48.35524	3.821932	25.30649	4.957527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 7/16/2018 20:07:12 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4827347	25.13194	.5061475	.5335525	.4671393	.5002166
Stddev	.0025386	.02727	.0016702	.0028957	.0043993	.0008732
%RSD	.5258824	.1085272	.3299730	.5427195	.9417557	.1745646
#1	.4809397	25.15123	.5073285	.5315049	.4640285	.4995992
#2	.4845298	25.11265	.5049665	.5356000	.4702500	.5008341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4551967	.5277278	.5003917	.5012280	.4952395	5.207425
Stddev	.0020692	.0010237	.0013938	.0011748	.0001706	.011215
%RSD	.4545617	.1939900	.2785423	.2343907	.0344484	.2153697
#1	.4537335	.5270039	.5013773	.5020588	.4951189	5.215355
#2	.4566598	.5284517	.4994061	.5003973	.4953602	5.199494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.5321193
Stddev	.0002902
%RSD	.0545423
#1	.5323246
#2	.5319141
Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 7/16/2018 20:07:12 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2026.598	1210.048	9117.310	4345.993
Stddev	3.670	7.394	19.592	6.300
%RSD	.1810953	.6110841	.2148910	.1449530
#1	2029.193	1215.277	9103.456	4341.539
#2	2024.003	1204.820	9131.163	4350.448

Sample Name: CCB Acquired: 7/16/2018 20:11:03 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004375	.0030142	-.000121	-.010113	-.000200	-.000416
Stddev	.0002932	.0052984	.002852	.000085	.000035	.000044
%RSD	67.00088	175.7846	2348.205	.8440011	17.34903	10.67975
#1	.0006448	.0067607	.001895	-.010173	-.000175	-.000448
#2	.0002303	-.000732	-.002138	-.010052	-.000224	-.000385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000045	.0056925	.0001489	F .0120086	.0006561	.0002061
Stddev	.000427	.0000305	.0000704	.0074924	.0004547	.0000395
%RSD	941.6334	.5365870	47.27088	62.39178	69.30228	19.18472
#1	.000257	.0057141	.0000991	.0067107	.0003346	.0002341
#2	-.000347	.0056709	.0001987	.0173065	.0009776	.0001781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000939	.0320131	.0134361	.0007411	-.006899	.0007694
Stddev	.000142	.0313627	.0105034	.0006379	.025994	.0001779
%RSD	15.07289	97.96811	78.17303	86.08225	376.7829	23.11812
#1	-.001039	.0541899	.0060091	.0011921	.011481	.0008952
#2	-.000839	.0098364	.0208632	.0002900	-.025279	.0006436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 7/16/2018 20:11:03 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000398	.1680388	.0006400	-.000285	.0002234	.0012071
Stddev	.0000663	.0004945	.0008451	.000596	.0006521	.0007244
%RSD	166.6629	.2942464	132.0488	208.5923	291.8445	60.01314
#1	.0000867	.1676891	.0012376	-.000707	.0006845	.0017193
#2	-.000007	.1683884	.0000424	.000136	-.000238	.0006948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014186	.0008246	.0000110	-.000402	.0005587	.0005358
Stddev	.0021294	.0012906	.0000070	.000143	.0010379	.0003388
%RSD	150.1067	156.5113	64.05180	35.61841	185.7595	63.23354
#1	-.000087	.0017372	.0000160	-.000504	-.000175	.0002962
#2	.002924	-.000088	.0000060	-.000301	.001293	.0007753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0000333
Stddev	.0001839
%RSD	552.4298
#1	.0001633
#2	-.000097
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 7/16/2018 20:11:03 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2175.189	1227.113	9327.857	4399.921
Stddev	10.650	6.739	1.207	13.564
%RSD	.4895960	.5491705	.0129420	.3082833
#1	2182.720	1231.878	9328.710	4390.329
#2	2167.659	1222.347	9327.003	4409.512

Sample Name: CCVL Acquired: 7/16/2018 20:15:08 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053071	.1933426	.0098367	.0379178	.0095133	.0034899
Stddev	.0002050	.0079895	.0018774	.0000018	.0000395	.0000689
%RSD	3.863439	4.132291	19.08606	.0047627	.4152316	1.973974
#1	.0051621	.1876931	.0085091	.0379190	.0094854	.0035387
#2	.0054521	.1989920	.0111642	.0379165	.0095412	.0034412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0485893	.2082536	.0019749	F -.000283	.0051934	.0107061
Stddev	.0005570	.0018150	.0001147	.010290	.0002195	.0005873
%RSD	1.146404	.8715087	5.809098	3641.600	4.227414	5.485232
#1	.0481954	.2069702	.0020560	-.007558	.0050381	.0102909
#2	.0489832	.2095369	.0018938	.006993	.0053486	.0111214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088076	.1847968	.4784682	.0098980	.1137443	.0100892
Stddev	.0003087	.0145658	.0039965	.0000935	.0039290	.0001252
%RSD	3.504837	7.882033	.8352673	.9451037	3.454239	1.240639
#1	.0085893	.1744973	.4812941	.0098319	.1109661	.0100007
#2	.0090259	.1950964	.4756423	.0099642	.1165225	.0101777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 7/16/2018 20:15:08 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0099688**	**1.158244**	**.0106897**	**.0049203**	**.0173499**	**.0108865**
Stddev	.0001326	.000020	.0002586	.0004596	.0002090	.0003887
%RSD	1.330593	.0016952	2.418645	9.341323	1.204384	3.570167
#1	.0098750	1.158231	.0108725	.0052453	.0172021	.0111614
#2	.0100626	1.158258	.0105069	.0045953	.0174977	.0106117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1863309**	**.0408125**	**.0051704**	**.0046368**	**.0095599**	**.0055730**
Stddev	.0021047	.0010463	.0000143	.0000123	.0003521	.0002877
%RSD	1.129535	2.563651	.2768417	.2654909	3.683203	5.161701
#1	.1848427	.0400726	.0051805	.0046280	.0093109	.0053695
#2	.1878191	.0415523	.0051603	.0046455	.0098089	.0057764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	**.0207051**
Stddev	.0001502
%RSD	.7253422
#1	.0205989
#2	.0208113
Check ?	Chk Pass
Value	
Range	

Sample Name: CCVL Acquired: 7/16/2018 20:15:08 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2178.655	1228.209	9343.937	4415.453
Stddev	5.148	4.126	15.505	12.909
%RSD	.2362971	.3359053	.1659371	.2923559
#1	2182.295	1231.127	9332.974	4406.325
#2	2175.015	1225.292	9354.901	4424.581

Sample Name: 500-148364-i-1-c@5 Acquired: 7/16/2018 20:19:13 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001933	.0875515	.0016781	.0164366	.0055168	-.000177	-.003168
Stddev	.0005670	.0129287	.0038786	.0061662	.0000308	.000029	.001257
%RSD	293.3723	14.76698	231.1349	37.51539	.5576559	16.18084	39.69059
#1	-.000208	.0966934	.0044206	.0207967	.0054951	-.000197	-.004057
#2	.000594	.0784095	-.001065	.0120764	.0055386	-.000156	-.002279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.542942	.0006315	.0075937	.0003749	.0059027	.0469503	1.023649
Stddev	.003733	.0000083	.0224272	.0000320	.0001202	.0001860	.001241
%RSD	.2419143	1.308209	295.3404	8.534804	2.036822	.3960725	.1212630
#1	1.540303	.0006256	-.008265	.0003976	.0058177	.0470818	1.022772
#2	1.545582	.0006373	.023452	.0003523	.0059877	.0468188	1.024527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.923169	.0027443	.4715034	.0157311	.0227554	437.7608	.0030157
Stddev	.039448	.0000220	.0051614	.0005093	.0051417	3.4396	.0031680
%RSD	2.051224	.8011851	1.094669	3.237765	22.59574	.7857208	105.0501
#1	1.895274	.0027599	.4678538	.0160913	.0263912	440.1929	.0052558
#2	1.951063	.0027288	.4751531	.0153710	.0191196	435.3286	.0007756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148364-i-1-c@5 Acquired: 7/16/2018 20:19:13 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048553	-.000787	.0030185	.6494467	.0009311	.0014774	.0073565
Stddev	.0006968	.000371	.0034743	.1318222	.0001470	.0000127	.0000606
%RSD	14.35046	47.16715	115.1012	20.29761	15.79174	.8603924	.8230477
#1	.0053480	-.001050	.0054752	.7426590	.0010351	.0014685	.0073137
#2	.0043626	-.000525	.0005618	.5562343	.0008271	.0014864	.0073994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001544	.0003334	.0710241
Stddev	.000394	.0001689	.0142411
%RSD	25.53551	50.66799	20.05108
#1	-.001823	.0004529	.0810941
#2	-.001265	.0002140	.0609541
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2060.895	1247.708	8402.067	4216.462
Stddev	305.323	198.610	2.256	1.318
%RSD	14.81507	15.91801	.0268540	.0312615
#1	1844.999	1107.269	8403.663	4215.529
#2	2276.791	1388.146	8400.472	4217.394

Sample Name: lb3 500-440937/1-b Acquired: 7/16/2018 20:23:23 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002125**	**-.000284**	**-.001526**	**-.009057**	**-.000246**	**-.000190**	**-.007068**
Stddev	.0000308	.015607	.001549	.000150	.000124	.000223	.000181
%RSD	14.49740	5488.701	101.4848	1.653556	50.35746	117.6132	2.565786
#1	.0001907	.010751	-.002622	-.008951	-.000158	-.000348	-.007196
#2	.0002343	-.011320	-.000431	-.009163	-.000333	-.000032	-.006940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0592125**	**.0007081**	**-.003885**	**-.000922**	**.0002001**	**-.000570**	**.0184638**
Stddev	.0014775	.0001074	.008491	.000199	.0003994	.000273	.0003394
%RSD	2.495248	15.17006	218.5603	21.61424	199.6244	47.90436	1.838318
#1	.0581677	.0007841	.002119	-.000781	.0004825	-.000377	.0187038
#2	.0602572	.0006322	-.009889	-.001063	-.000082	-.000763	.0182237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0226055**	**.0001483**	**.0100351**	**.0000708**	**.0001139**	**.3816902**	**-.001897**
Stddev	.0205312	.0000095	.0076899	.0003764	.0003635	.0122502	.000494
%RSD	90.82364	6.395615	76.62965	531.8823	319.1447	3.209447	26.04821
#1	.0371233	.0001416	.0154727	-.000195	-.000143	.3903524	-.001548
#2	.0080878	.0001550	.0045976	.000337	.000371	.3730281	-.002246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: Ib3 500-440937/1-b Acquired: 7/16/2018 20:23:23 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002963	.0026504	.0067011	.0357708	-.002494	.0000484	-.000338
Stddev	.001459	.0006048	.0007332	.0016138	.000021	.0000019	.000043
%RSD	49.24878	22.81948	10.94074	4.511507	.8219321	3.933636	12.84786
#1	-.001931	.0022227	.0072195	.0346297	-.002479	.0000471	-.000308
#2	-.003995	.0030780	.0061827	.0369120	-.002508	.0000498	-.000369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.005366	.0002331	.0030452
Stddev	.000409	.0001605	.0002786
%RSD	7.613986	68.85436	9.148251
#1	-.005077	.0001196	.0028482
#2	-.005655	.0003466	.0032422
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2129.173	1181.730	9242.308	4411.491
Stddev	6.244	2.155	8.373	25.906
%RSD	.2932651	.1823529	.0905965	.5872400
#1	2124.758	1180.206	9236.387	4393.172
#2	2133.589	1183.254	9248.229	4429.809

Sample Name: 500-148436-k-1-c@5 Acquired: 7/16/2018 20:27:28 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000584**	**.2289488**	**.0021448**	**.0036101**	**.0046756**	**-.000358**	**-.002369**
Stddev	.000190	.0104516	.0007742	.0016640	.0000221	.000266	.000158
%RSD	32.49996	4.565023	36.09723	46.09278	.4726099	74.32365	6.678987
#1	-.000450	.2363392	.0015974	.0047867	.0046912	-.000546	-.002481
#2	-.000718	.2215584	.0026923	.0024335	.0046600	-.000170	-.002257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.121771**	**.0089313**	**.0076290**	**.0037847**	**.0043719**	**.7509233**	**1.413841**
Stddev	.000599	.0010967	.0000999	.0002772	.0005698	.0012971	.010859
%RSD	.0533897	12.27946	1.309457	7.323348	13.03420	.1727307	.7680510
#1	1.122194	.0097068	.0076996	.0039807	.0047748	.7500062	1.421520
#2	1.121347	.0081558	.0075584	.0035887	.0039689	.7518405	1.406163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5889322**	**.0012013**	**.1393747**	**.1283465**	**.1073584**	**284.5021**	**.0107942**
Stddev	.0134580	.0001520	.0156638	.0007318	.0112629	3.4350	.0023026
%RSD	2.285148	12.65302	11.23866	.5701460	10.49097	1.207373	21.33184
#1	.5984485	.0013088	.1282987	.1288640	.1153225	282.0731	.0124224
#2	.5794160	.0010939	.1504507	.1278291	.0993943	286.9310	.0091660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148436-k-1-c@5 Acquired: 7/16/2018 20:27:28 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1315291	-.002569	.0010790	.2560940	.0053844	.0023290	.0102190
Stddev	.0139415	.000222	.0004784	.0207117	.0011997	.0000156	.0003332
%RSD	10.59958	8.649315	44.33770	8.087533	22.28140	.6681951	3.260279
#1	.1413872	-.002412	.0007407	.2707393	.0062328	.0023180	.0104546
#2	.1216710	-.002727	.0014172	.2414486	.0045361	.0023400	.0099834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001403	.0003334	.5363028
Stddev	.000933	.0000007	.0471420
%RSD	66.49959	.2216765	8.790180
#1	-.002062	.0003339	.5696372
#2	-.000743	.0003329	.5029684
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2010.489	1196.628	8609.803	4278.576
Stddev	138.867	92.781	9.641	5.817
%RSD	6.907105	7.753573	.1119816	.1359669
#1	1912.296	1131.022	8602.986	4274.463
#2	2108.683	1262.235	8616.621	4282.690

Sample Name: lb 500-440954/1-b Acquired: 7/16/2018 20:33:36 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000450	.0289406	.0022291	.0184844	.0010309	-.000067
Stddev	.0000977	.0226312	.0010798	.0075257	.0000290	.000284
%RSD	216.9182	78.19891	48.43995	40.71364	2.812029	422.4827
#1	.0001141	.0449433	.0029926	.0238059	.0010513	-.000268
#2	-.000024	.0129379	.0014656	.0131630	.0010104	.000133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005591	.1351692	.0005515	-.003214	-.000608	.0018678
Stddev	.001310	.0008576	.0000202	.010639	.000086	.0003636
%RSD	23.43796	.6345030	3.664433	331.0192	14.20925	19.46942
#1	-.004665	.1357756	.0005658	-.010737	-.000547	.0021249
#2	-.006518	.1345627	.0005372	.004309	-.000669	.0016106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018818	.0459818	.4160214	.0032575	.0270283	.0004542
Stddev	.0000265	.0027597	.0356649	.0002113	.0124916	.0003914
%RSD	1.405926	6.001662	8.572863	6.487304	46.21666	86.17879
#1	.0018631	.0479332	.3908025	.0031081	.0181954	.0007310
#2	.0019005	.0440305	.4412403	.0034069	.0358612	.0001774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lb 500-440954/1-b Acquired: 7/16/2018 20:33:36 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000298	F 1257.908	.0044172	-.000718	-.000879	.0048635
Stddev	.000253	1.004	.0042405	.001902	.001721	.0002893
%RSD	85.03364	.0797850	96.00136	264.9192	195.7184	5.948262
#1	-.000119	1258.618	.0074157	-.002062	-.002096	.0046589
#2	-.000477	1257.198	.0014187	.000627	.000338	.0050681
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2689837	.0026429	.0007606	-.000489	-.005543	.0002411
Stddev	.0608165	.0004214	.0000024	.000136	.002179	.0002630
%RSD	22.60975	15.94574	.3170634	27.91259	39.30874	109.1194
#1	.3119875	.0029409	.0007623	-.000392	-.007084	.0000551
#2	.2259799	.0023449	.0007589	-.000585	-.004002	.0004270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0619905
Stddev	.0131208
%RSD	21.16588
#1	.0712683
#2	.0527127
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: lb 500-440954/1-b Acquired: 7/16/2018 20:33:36 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1884.910	1201.495	7790.556	4122.074
Stddev	317.304	219.513	4.060	.884
%RSD	16.83392	18.26995	.0521178	.0214373
#1	1660.542	1046.276	7787.684	4122.698
#2	2109.278	1356.714	7793.427	4121.449

Sample Name: lcs 500-441018/2-a Acquired: 7/16/2018 20:37:47 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0426296	1.824146	.0903484	.8292820	1.838490	.0461908	.4414763
Stddev	.0001637	.009590	.0014510	.0029053	.004179	.0002692	.0036669
%RSD	.3839314	.5257485	1.606053	.3503342	.2273122	.5828859	.8305931
#1	.0427454	1.817365	.0913744	.8272276	1.835535	.0460004	.4388834
#2	.0425139	1.830928	.0893223	.8313363	1.841445	.0463812	.4440692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.766905	.0454367	-.002610	.4650352	.1849625	.2322608	.9442843
Stddev	.012667	.0001761	.010082	.0017876	.0002286	.0001393	.0074408
%RSD	.1296974	.3875928	386.3032	.3844024	.1235733	.0599683	.7879861
#1	9.757948	.0455613	.004519	.4637712	.1851241	.2323592	.9390229
#2	9.775863	.0453122	-.009739	.4662993	.1848009	.2321623	.9495458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.030257	.4608368	9.226854	.4684172	.9303609	9.819703	.4598754
Stddev	.000632	.0014567	.030167	.0003365	.0036694	.022997	.0039067
%RSD	.0069963	.3160996	.3269520	.0718355	.3944014	.2341887	.8495184
#1	9.029810	.4598068	9.205522	.4686551	.9277663	9.835964	.4571129
#2	9.030704	.4618669	9.248185	.4681792	.9329555	9.803442	.4626379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-441018/2-a Acquired: 7/16/2018 20:37:47 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0924623	.4383826	.0793902	4.387853	.9446271	.9399823	.9556349
Stddev	.0003511	.0021238	.0002844	.009945	.0043878	.0044502	.0000429
%RSD	.3797235	.4844618	.3582350	.2266564	.4644976	.4734309	.0044928
#1	.0927105	.4368809	.0795913	4.380820	.9415244	.9368356	.9556653
#2	.0922140	.4398844	.0791891	4.394885	.9477297	.9431291	.9556046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0846233	.4894767	.4537425
Stddev	.0002216	.0024150	.0031804
%RSD	.2618293	.4933789	.7009331
#1	.0844667	.4877691	.4514936
#2	.0847800	.4911844	.4559914
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2097.080	1189.543	9188.566	4384.895
Stddev	2.114	.715	5.633	18.624
%RSD	.1007832	.0601450	.0613006	.4247404
#1	2098.575	1189.037	9192.549	4371.726
#2	2095.586	1190.049	9184.583	4398.065

Sample Name: 500-148398-a-1-c Acquired: 7/16/2018 20:41:47 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004673	.2286768	.0053466	.0819996	.6128065	.0002324
Stddev	.0007998	.0097144	.0012816	.0005374	.0001232	.0002381
%RSD	171.1603	4.248077	23.97105	.6553821	.0201073	102.4441
#1	.0010329	.2355459	.0062529	.0823796	.6128936	.0004008
#2	-.000098	.2218077	.0044404	.0816196	.6127193	.0000640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006468	245.5044	.0117550	.0067814	.0070538	.0024228
Stddev	.001420	.6537	.0003894	.0100897	.0000807	.0009240
%RSD	21.94897	.2662844	3.312310	148.7850	1.143666	38.13844
#1	-.005464	245.0421	.0114796	.0139159	.0071109	.0017695
#2	-.007472	245.9667	.0120303	-.000353	.0069968	.0030762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0150476	.1241306	1.908926	.0395811	39.24334	2.815676
Stddev	.0003479	.0374555	.042563	.0005068	.04159	.002335
%RSD	2.311685	30.17425	2.229683	1.280314	.1059729	.0829350
#1	.0148017	.1506156	1.878829	.0392228	39.21393	2.814025
#2	.0152936	.0976455	1.939022	.0399394	39.27275	2.817327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148398-a-1-c Acquired: 7/16/2018 20:41:47 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004739	F 1289.531	.0233676	.0865902	.0145740	.0073937
Stddev	.0003949	16.548	.0021514	.0030625	.0007582	.0003119
%RSD	83.34151	1.283246	9.206621	3.536771	5.202683	4.218766
#1	.0007532	1301.232	.0248889	.0887557	.0140378	.0071731
#2	.0001946	1277.830	.0218464	.0844247	.0151101	.0076143
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.40380	.0060286	.4383657	.0004219	-.006804	.0021480
Stddev	.03373	.0009620	.0006224	.0000341	.000235	.0005280
%RSD	.3241711	15.95756	.1419834	8.070872	3.453237	24.57974
#1	10.37995	.0053484	.4379256	.0004460	-.006970	.0017747
#2	10.42764	.0067088	.4388058	.0003978	-.006638	.0025214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	3.135413
Stddev	.029424
%RSD	.9384493
#1	3.114607
#2	3.156220
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148398-a-1-c Acquired: 7/16/2018 20:41:47 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1581.964	1017.991	7666.135	4040.598
Stddev	6.079	2.390	4.618	1.099
%RSD	.3842855	.2347592	.0602399	.0272015
#1	1586.263	1019.681	7669.401	4041.375
#2	1577.666	1016.301	7662.870	4039.821

Sample Name: 500-148374-a-1-c Acquired: 7/16/2018 20:45:53 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004918	.0475527	.0164623	.0735964	.6061400	.0000406
Stddev	.0008373	.0094113	.0042536	.0242170	.0014441	.0002511
%RSD	170.2580	19.79125	25.83867	32.90512	.2382532	618.6372
#1	.0010838	.0408979	.0194700	.0907204	.6051188	.0002182
#2	-.000100	.0542074	.0134545	.0564724	.6071612	-.000137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007000	436.4217	.0016908	-.001551	.0097849	.0006147
Stddev	.000567	2.7835	.0006459	.006477	.0025131	.0005374
%RSD	8.106374	.6378044	38.19964	417.6460	25.68306	87.42456
#1	-.006599	434.4534	.0021475	-.006131	.0115619	.0009947
#2	-.007401	438.3899	.0012341	.003029	.0080079	.0002347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026378	.3349401	5.842766	.0135123	30.60565	4.977760
Stddev	.0001995	.0381064	.015450	.0006945	.20735	.022083
%RSD	7.563478	11.37707	.2644232	5.139713	.6774924	.4436344
#1	.0027789	.3618853	5.831842	.0140034	30.45903	4.962145
#2	.0024967	.3079948	5.853691	.0130212	30.75227	4.993375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148374-a-1-c Acquired: 7/16/2018 20:45:53 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004155	F 1312.620	.0418905	-.002298	.0020847	.0059752
Stddev	.0004333	9.431	.0145864	.002336	.0013647	.0032241
%RSD	104.2779	.7184715	34.82030	101.6562	65.46294	53.95773
#1	.0007219	1305.951	.0522047	-.000646	.0030497	.0082549
#2	.0001091	1319.289	.0315764	-.003950	.0011197	.0036954
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.12476	.0024808	1.036665	-.002713	-.005173	.0013276
Stddev	4.31156	.0009452	.003383	.000256	.000004	.0002934
%RSD	35.55999	38.10097	.3263390	9.437659	.0713832	22.10348
#1	15.17349	.0018124	1.034273	-.002532	-.005175	.0011201
#2	9.07602	.0031491	1.039058	-.002894	-.005170	.0015351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0083766
Stddev	.0017765
%RSD	21.20806
#1	.0096328
#2	.0071204
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148374-a-1-c Acquired: 7/16/2018 20:45:53 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1808.803	1184.105	7647.506	4020.288
Stddev	357.875	242.771	2.161	15.617
%RSD	19.78517	20.50248	.0282604	.3884429
#1	1555.747	1012.440	7649.034	4031.331
#2	2061.858	1355.770	7645.978	4009.245

Sample Name: 500-148374-a-2-c Acquired: 7/16/2018 20:50:05 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004599	.0686299	.0176192	.0781624	.5999931	-.000243
Stddev	.0004617	.0109917	.0034596	.0250540	.0019207	.000108
%RSD	100.3856	16.01593	19.63544	32.05379	.3201271	44.22791
#1	.0001335	.0764023	.0200654	.0958783	.6013512	-.000320
#2	.0007864	.0608576	.0151728	.0604466	.5986349	-.000167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008621	409.1612	.0018673	.0117816	.0106324	.0004606
Stddev	.001786	1.1937	.0006896	.0146668	.0025883	.0000456
%RSD	20.71247	.2917469	36.93202	124.4884	24.34331	9.904207
#1	-.007358	408.3171	.0023549	.0221526	.0124626	.0004284
#2	-.009883	410.0053	.0013796	.0014107	.0088022	.0004929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025961	.3888194	5.769640	.0138420	33.84621	4.562237
Stddev	.0004900	.0617366	.002133	.0001543	.08416	.008253
%RSD	18.87468	15.87797	.0369769	1.114645	.2486514	.1809010
#1	.0029426	.4324738	5.768131	.0137329	33.78670	4.556401
#2	.0022496	.3451650	5.771148	.0139511	33.90571	4.568072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148374-a-2-c Acquired: 7/16/2018 20:50:05 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002024	F 1298.433	.0462185	-.002850	.0031570	.0065793
Stddev	.0002319	6.466	.0144383	.003241	.0017980	.0020253
%RSD	114.5973	.4980208	31.23919	113.7422	56.95330	30.78324
#1	.0003663	1293.861	.0564279	-.000558	.0044283	.0080115
#2	.0000384	1303.006	.0360091	-.005142	.0018856	.0051472
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.36682	.0035502	.9659664	-.002298	-.006378	.0008887
Stddev	4.41069	.0003331	.0063608	.000036	.001793	.0000238
%RSD	32.99729	9.381989	.6584918	1.563196	28.11339	2.678013
#1	16.48565	.0037857	.9704641	-.002272	-.007646	.0009056
#2	10.24799	.0033147	.9614686	-.002323	-.005110	.0008719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0341191
Stddev	.0087216
%RSD	25.56231
#1	.0402863
#2	.0279520
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148374-a-2-c Acquired: 7/16/2018 20:50:05 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1805.879	1179.218	7667.445	4018.935
Stddev	353.489	236.892	64.345	4.832
%RSD	19.57436	20.08891	.8391948	.1202312
#1	1555.924	1011.710	7621.947	4015.518
#2	2055.833	1346.725	7712.944	4022.352

Sample Name: 500-147959-a-6-e Acquired: 7/16/2018 20:54:18 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000874**	**.2294743**	**.0034213**	**.0568254**	**.1123507**	**-.000006**
Stddev	.0007099	.0034041	.0017009	.0080406	.0003177	.000008
%RSD	812.4893	1.483457	49.71642	14.14970	.2827697	133.1859
#1	-.000415	.2318814	.0022186	.0625110	.1125753	-.000011
#2	.000589	.2270672	.0046241	.0511398	.1121260	-.000000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008186**	**463.9886**	**.0006113**	F **-.007271**	**.0107388**	**.0026716**
Stddev	.000628	2.1796	.0000044	.016164	.0007857	.0006594
%RSD	7.666360	.4697601	.7132313	222.3101	7.316187	24.68271
#1	-.008630	465.5298	.0006144	-.018701	.0112944	.0022053
#2	-.007742	462.4473	.0006082	.004159	.0101833	.0031378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				10.00000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018967**	**23.11037**	**5.528661**	**.0206980**	**28.34707**	**5.100377**
Stddev	.0002687	.09756	.045710	.0007640	.09729	.024976
%RSD	14.16617	.4221395	.8267764	3.691279	.3431972	.4896966
#1	.0020867	23.17935	5.560982	.0201578	28.41586	5.118038
#2	.0017067	23.04138	5.496339	.0212383	28.27827	5.082716
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147959-a-6-e Acquired: 7/16/2018 20:54:18 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000785	F 1315.033	.1265427	-.000222	.0001863	.0095972
Stddev	.000433	17.809	.0137968	.000922	.0019677	.0009767
%RSD	55.10880	1.354278	10.90287	415.8896	1056.391	10.17674
#1	-.000479	1327.626	.1362985	-.000873	.0015777	.0102878
#2	-.001091	1302.440	.1167869	.000430	-.001205	.0089065
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.033460	.0053149	.6904408	-.003748	-.004945	.0116950
Stddev	.620510	.0003419	.0002360	.000202	.001472	.0001318
%RSD	10.28448	6.433231	.0341880	5.398532	29.76076	1.126511
#1	6.472227	.0050731	.6902739	-.003891	-.005986	.0116018
#2	5.594693	.0055566	.6906077	-.003605	-.003904	.0117882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	15.90487
Stddev	1.37408
%RSD	8.639396
#1	16.87649
#2	14.93324
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-147959-a-6-e Acquired: 7/16/2018 20:54:18 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1667.513	1085.470	7653.969	4014.262
Stddev	128.546	90.622	3.974	28.688
%RSD	7.708832	8.348625	.0519206	.7146525
#1	1576.617	1021.391	7656.779	3993.976
#2	1758.409	1149.550	7651.159	4034.547

Sample Name: 500-147959-a-7-e Acquired: 7/16/2018 20:58:26 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003503	.0714366	.0043230	.0472758	.0801645	.0000268
Stddev	.0003790	.0055197	.0012256	.0269997	.0000181	.0003772
%RSD	108.1898	7.726709	28.35126	57.11113	.0225990	1405.550
#1	.0000823	.0753396	.0034564	.0663675	.0801517	-.000240
#2	.0006183	.0675335	.0051897	.0281841	.0801773	.000294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006481	F 602.9798	.0010394	F -.017536	.0267713	.0009350
Stddev	.001475	4.1254	.0004417	.008745	.0121390	.0005492
%RSD	22.76032	.6841612	42.49399	49.87113	45.34341	58.74254
#1	-.007524	600.0627	.0013517	-.011352	.0353549	.0005466
#2	-.005438	605.8969	.0007271	-.023720	.0181877	.0013234
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit		600.0000		10.00000		
Low Limit		-.200000		-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020473	.3349472	5.366444	.0249000	34.33199	6.002199
Stddev	.0002336	.0204430	.013434	.0009043	.14775	.019722
%RSD	11.41001	6.103336	.2503321	3.631758	.4303706	.3285802
#1	.0022124	.3494026	5.356944	.0255394	34.22752	5.988253
#2	.0018821	.3204919	5.375943	.0242605	34.43647	6.016144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147959-a-7-e Acquired: 7/16/2018 20:58:26 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000388**	F **1297.550**	**.2158348**	**.0003362**	**.0005315**	**.0078733**
Stddev	.000320	2.343	.1057891	.0013309	.0014769	.0028099
%RSD	82.35092	.1805488	49.01394	395.8279	277.8632	35.68975
#1	-.000614	1295.893	.2906390	-.000605	-.000513	.0098602
#2	-.000162	1299.206	.1410306	.001277	.001576	.0058863
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.909567**	**.0023024**	**.8504665**	F **-.005207**	**-.007470**	**.0190914**
Stddev	4.723169	.0000144	.0021446	.000053	.005815	.0003351
%RSD	53.01233	.6265801	.2521654	1.020761	77.83716	1.755265
#1	12.24935	.0022922	.8519830	-.005169	-.011582	.0188544
#2	5.56978	.0023126	.8489501	-.005245	-.003359	.0193283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				5.000000		
Low Limit				-.005000		

Elem	Zn2062
Units	ppm
Avg	**13.78209**
Stddev	6.21754
%RSD	45.11320
#1	18.17855
#2	9.38562
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-147959-a-7-e Acquired: 7/16/2018 20:58:26 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1920.907	1241.641	7659.941	4012.269
Stddev	491.215	305.540	8.070	9.815
%RSD	25.57206	24.60772	.1053550	.2446247
#1	1573.565	1025.592	7654.235	4019.209
#2	2268.249	1457.690	7665.648	4005.329

Sample Name: CCV Acquired: 7/16/2018 21:02:43 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5173881**	**49.48606**	**.5034842**	**.4789402**	**.4780553**	**.5053678**
Stddev	.0013600	.10402	.0023089	.0007291	.0010896	.0005837
%RSD	.2628486	.2101979	.4585820	.1522403	.2279272	.1155078
#1	.5183497	49.41251	.5018516	.4794558	.4772848	.5057806
#2	.5164265	49.55961	.5051168	.4784246	.4788258	.5049550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5108572**	**26.37065**	**.5038747**	F **-.032307**	**.5126244**	**.4922526**
Stddev	.0015864	.02397	.0000613	.000041	.0024148	.0006495
%RSD	.3105373	.0909069	.0121657	.1282887	.4710737	.1319472
#1	.5097355	26.35370	.5038313	-.032278	.5109168	.4927119
#2	.5119790	26.38760	.5039180	-.032337	.5143319	.4917934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4958273**	**25.95084**	**47.85049**	**3.797371**	**24.94230**	**4.896768**
Stddev	.0000941	.07747	.08272	.001245	.03901	.009109
%RSD	.0189722	.2985451	.1728705	.0327799	.1563811	.1860219
#1	.4957608	25.89606	47.79200	3.798251	24.91472	4.890327
#2	.4958938	26.00563	47.90898	3.796491	24.96988	4.903210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 7/16/2018 21:02:43 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4803670	25.25431	.5048107	.5286413	.4618891	.4966425
Stddev	.0009203	.01630	.0040773	.0052720	.0009728	.0046002
%RSD	.1915915	.0645610	.8076896	.9972797	.2106117	.9262613
#1	.4810177	25.26584	.5019276	.5249134	.4612013	.4998953
#2	.4797162	25.24278	.5076937	.5323692	.4625770	.4933896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5368844	.5271699	.5008811	.4978624	.4930793	5.224119
Stddev	.0098008	.0036396	.0001711	.0000771	.0058129	.004554
%RSD	1.825503	.6904042	.0341596	.0154755	1.178893	.0871703
#1	.5438146	.5245963	.5010021	.4979169	.4889690	5.227339
#2	.5299542	.5297435	.5007601	.4978079	.4971896	5.220898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.5300408
Stddev	.0039852
%RSD	.7518634
#1	.5272229
#2	.5328588
Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 7/16/2018 21:02:43 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2031.977	1213.458	9094.636	4366.960
Stddev	2.510	4.620	23.722	.477
%RSD	.1235146	.3807662	.2608316	.0109218
#1	2033.752	1210.191	9077.862	4366.623
#2	2030.203	1216.725	9111.410	4367.297

Sample Name: CCB Acquired: 7/16/2018 21:06:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000287**	**-.017345**	**.0011399**	**-.011010**	**-.000285**	**-.000164**
Stddev	.000413	.012352	.0007654	.000019	.000029	.000250
%RSD	143.9777	71.21498	67.14507	.1721589	10.29513	152.1322
#1	.000005	-.026080	.0005987	-.011023	-.000305	-.000341
#2	-.000579	-.008611	.0016812	-.010997	-.000264	.000012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013179**	**.0051313**	**.0001307**	F **-.006040**	**.0002077**	**.0000325**
Stddev	.0010061	.0002266	.0001185	.008142	.0002090	.0003671
%RSD	76.33906	4.416511	90.70833	134.8052	100.6084	1131.518
#1	.0020294	.0052915	.0002145	-.000283	.0003555	.0002920
#2	.0006065	.0049710	.0000469	-.011797	.0000600	-.000227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001004**	**.0042318**	**.0203658**	**.0004833**	**.0009591**	**.0005503**
Stddev	.000045	.0003105	.0153058	.0001520	.0303721	.0000262
%RSD	4.525318	7.337577	75.15474	31.45438	3166.758	4.757538
#1	-.000971	.0044513	.0095429	.0005907	-.020517	.0005688
#2	-.001036	.0040122	.0311887	.0003758	.022435	.0005318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 7/16/2018 21:06:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002066	.2821541	-.000418	-.000559	.0010418	-.001032
Stddev	.0004224	.0113179	.000877	.000016	.0000704	.000834
%RSD	204.4291	4.011242	209.7371	2.791404	6.760593	80.77273
#1	.0005053	.2741511	-.001038	-.000570	.0010916	-.000443
#2	-.000092	.2901570	.000202	-.000548	.0009920	-.001621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0507370	.0011883	.0000040	-.000118	-.000993	.0008757
Stddev	.0005328	.0011456	.0000214	.000020	.000561	.0001920
%RSD	1.050042	96.40544	538.5588	17.37211	56.49067	21.92572
#1	.0503603	.0003783	.0000191	-.000103	-.000596	.0010115
#2	.0511137	.0019984	-.000011	-.000132	-.001389	.0007399
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0001898
Stddev	.0000014
%RSD	.7386750
#1	.0001888
#2	.0001908
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 7/16/2018 21:06:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2195.312	1243.242	9375.453	4403.508
Stddev	3.799	.126	.655	2.909
%RSD	.1730323	.0101655	.0069852	.0660547
#1	2197.998	1243.332	9374.990	4405.565
#2	2192.626	1243.153	9375.916	4401.452

Sample Name: CCVL Acquired: 7/16/2018 21:10:41 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052078**	**.1959713**	**.0121340**	**.0389728**	**.0095074**	**.0039799**
Stddev	.0006202	.0101286	.0007208	.0019891	.0000589	.0002019
%RSD	11.90857	5.168411	5.940109	5.103685	.6198262	5.071866
#1	.0047693	.2031333	.0126437	.0375663	.0095491	.0038371
#2	.0056463	.1888093	.0116244	.0403792	.0094657	.0041226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0491588**	**.2103911**	**.0020564**	F **-.007806**	**.0054487**	**.0099593**
Stddev	.0000201	.0017200	.0002232	.004845	.0002010	.0003927
%RSD	.0408554	.8175048	10.85227	62.07182	3.688577	3.942735
#1	.0491446	.2091749	.0022142	-.011232	.0053066	.0102369
#2	.0491731	.2116072	.0018986	-.004380	.0055908	.0096816
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0087681**	**.2055285**	**.4807987**	**.0102058**	**.1034308**	**.0098637**
Stddev	.0003122	.0017683	.0064577	.0006705	.0010277	.0002561
%RSD	3.560131	.8603449	1.343123	6.569668	.9935929	2.596091
#1	.0085473	.2042782	.4853650	.0106799	.1041575	.0096826
#2	.0089888	.2067789	.4762324	.0097317	.1027041	.0100448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 7/16/2018 21:10:41 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099200	1.218798	F .0261401	F .0016179	.0165928	.0118969
Stddev	.0000136	.000491	.0237714	.0018075	.0020988	.0000497
%RSD	.1370188	.0402845	90.93855	111.7135	12.64895	.4174904
#1	.0099296	1.219145	.0093311	.0028960	.0151087	.0118617
#2	.0099104	1.218451	.0429490	.0003399	.0180768	.0119320
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
Value			.0100000	.0050000		
Range			30.00000%	-30.0000%		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .3360392	.0402431	.0051598	.0046241	.0083287	.0055461
Stddev	.1586316	.0001198	.0000085	.0000455	.0005956	.0003054
%RSD	47.20628	.2975555	.1652557	.9834609	7.151180	5.507226
#1	.2238697	.0403278	.0051538	.0045919	.0087499	.0053301
#2	.4482087	.0401584	.0051658	.0046562	.0079076	.0057621
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2000000					
Range	30.00000%					

Elem	Zn2062
Units	ppm
Avg	F .0304067
Stddev	.0135589
%RSD	44.59162
#1	.0208192
#2	.0399943
Check ?	Chk Fail
Value	.0200000
Range	30.00000%

Sample Name: CCVL Acquired: 7/16/2018 21:10:41 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2170.072	1221.093	9376.584	4421.509
Stddev	42.599	25.486	1.874	4.757
%RSD	1.963002	2.087171	.0199859	.1075888
#1	2200.194	1239.115	9377.909	4418.145
#2	2139.950	1203.072	9375.259	4424.873

Sample Name: 500-147959-b-8-d Acquired: 7/16/2018 21:14:46 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000176**	**.0190291**	**.0042769**	**.0369253**	**2.336087**	**-.000426**
Stddev	.000030	.0179470	.0010191	.0060449	.003209	.000110
%RSD	17.02514	94.31328	23.82738	16.37066	.1373710	25.76193
#1	-.000197	.0063387	.0049975	.0411997	2.333818	-.000504
#2	-.000154	.0317196	.0035563	.0326509	2.338356	-.000348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007205**	**1.771876**	**.0008869**	**.0047968**	**.0014084**	**.0010774**
Stddev	.000512	.004561	.0003055	.0078826	.0000275	.0001898
%RSD	7.103593	.2573973	34.44702	164.3301	1.954457	17.61501
#1	-.006843	1.775101	.0011029	.0103706	.0014278	.0012116
#2	-.007567	1.768651	.0006709	-.000777	.0013889	.0009432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039146**	**-.001031**	**.3880275**	**.0035880**	**.6857745**	**.0045787**
Stddev	.0005512	.075161	.0029174	.0002535	.0140280	.0000098
%RSD	14.08153	7291.175	.7518432	7.065702	2.045572	.2131536
#1	.0035248	.052116	.3859646	.0037673	.6956938	.0045718
#2	.0043044	-.054178	.3900904	.0034087	.6758551	.0045856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147959-b-8-d Acquired: 7/16/2018 21:14:46 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000438	F 1263.266	.0074501	-.003350	-.001844	.0092602
Stddev	.000103	17.493	.0024953	.000633	.000089	.0003806
%RSD	23.46452	1.384724	33.49297	18.89695	4.821122	4.110306
#1	-.000511	1275.635	.0092145	-.002902	-.001907	.0095294
#2	-.000366	1250.897	.0056857	-.003797	-.001781	.0089911
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5780071	.0035715	.0240566	-.000345	-.004697	.0002473
Stddev	.0486478	.0002271	.0000601	.000185	.000150	.0002109
%RSD	8.416478	6.358182	.2497376	53.66126	3.182756	85.26662
#1	.6124063	.0034109	.0240141	-.000476	-.004592	.0003965
#2	.5436079	.0037320	.0240990	-.000214	-.004803	.0000982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0937207
Stddev	.0068014
%RSD	7.257133
#1	.0985300
#2	.0889113
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-147959-b-8-d Acquired: 7/16/2018 21:14:46 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1743.708	1100.152	7815.062	4127.508
Stddev	124.790	91.413	11.479	11.946
%RSD	7.156568	8.309099	.1468785	.2894310
#1	1655.468	1035.513	7806.945	4119.061
#2	1831.947	1164.790	7823.179	4135.956

Sample Name: 500-147959-a-11-h Acquired: 7/16/2018 21:18:55 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000136	.3050001	.0033041	.1065145	.0677129	.0000402
Stddev	.0002522	.0052078	.0009899	.0000635	.0004005	.0000515
%RSD	1854.331	1.707475	29.95960	.0595911	.5914271	128.1445
#1	-.000165	.3013176	.0026041	.1064696	.0679961	.0000766
#2	.000192	.3086825	.0040040	.1065594	.0674297	.0000038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007527	439.1810	.0216844	.0229436	.0373726	.0015282
Stddev	.001177	.7405	.0000087	.0047351	.0001940	.0015509
%RSD	15.64271	.1686206	.0401117	20.63806	.5190660	101.4834
#1	-.006694	439.7046	.0216906	.0262919	.0375098	.0026248
#2	-.008359	438.6573	.0216783	.0195954	.0372354	.0004316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0794792	.1537617	3.687247	.0190823	180.0016	2.403013
Stddev	.0002511	.0207610	.002457	.0000244	.3184	.005607
%RSD	.3159709	13.50206	.0666453	.1278164	.1769149	.2333186
#1	.0793017	.1684420	3.685510	.0190651	180.2268	2.406977
#2	.0796568	.1390815	3.688985	.0190996	179.7764	2.399048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147959-a-11-h Acquired: 7/16/2018 21:18:55 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006557	F 1297.720	.6586670	.0006394	-.003033	.0089673
Stddev	.0000436	4.806	.0009166	.0021930	.001543	.0014556
%RSD	6.648577	.3703275	.1391557	343.0012	50.88279	16.23260
#1	.0006866	1301.118	.6580189	.0021900	-.004125	.0099966
#2	.0006249	1294.322	.6593151	-.000911	-.001942	.0079380
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.655240	.0032694	.5049879	-.003263	-.004449	.0058188
Stddev	.033668	.0030465	.0003078	.000150	.002997	.0008741
%RSD	.5953440	93.18231	.0609620	4.585142	67.37300	15.02171
#1	5.631433	.0054237	.5052056	-.003368	-.002329	.0052008
#2	5.679047	.0011152	.5047702	-.003157	-.006568	.0064369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	F 46.25059
Stddev	.16681
%RSD	.3606722
#1	46.13263
#2	46.36854
Check ?	Chk Fail
High Limit	20.00000
Low Limit	-.020000

Sample Name: 500-147959-a-11-h Acquired: 7/16/2018 21:18:55 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1556.141	1015.245	7658.289	4004.053
Stddev	1.670	1.417	14.162	13.256
%RSD	.1073007	.1396109	.1849219	.3310703
#1	1557.322	1016.247	7648.276	3994.679
#2	1554.960	1014.243	7668.303	4013.426

Sample Name: 500-147959-a-17-e Acquired: 7/16/2018 21:22:59 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004064	1.761879	.0039353	.0624109	.3308221	-.000046
Stddev	.0005096	.010212	.0000433	.0007251	.0013314	.000038
%RSD	125.3877	.5796123	1.098959	1.161786	.4024459	82.41339
#1	.0007668	1.769100	.0039047	.0629236	.3298806	-.000019
#2	.0000461	1.754658	.0039659	.0618982	.3317635	-.000072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007177	67.01034	.0013957	.0009218	.0072534	.0036959
Stddev	.000819	.32228	.0001246	.0119709	.0002677	.0002715
%RSD	11.41200	.4809425	8.928681	1298.663	3.690891	7.345843
#1	-.006598	66.78245	.0014839	-.007543	.0074427	.0038879
#2	-.007756	67.23822	.0013076	.009387	.0070641	.0035039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0633923	1.221608	2.945290	.0090160	4.556383	1.508286
Stddev	.0004036	.046538	.026153	.0003510	.025300	.005932
%RSD	.6367154	3.809546	.8879464	3.892911	.5552584	.3932662
#1	.0636777	1.188701	2.926797	.0087678	4.538493	1.504092
#2	.0631069	1.254515	2.963782	.0092642	4.574273	1.512480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147959-a-17-e Acquired: 7/16/2018 21:22:59 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000434	F 1288.038	.0431609	-.002241	-.003641	.0071106
Stddev	.000661	14.703	.0001642	.001224	.001311	.0024828
%RSD	152.3887	1.141527	.3803379	54.61141	36.00097	34.91662
#1	-.000901	1277.641	.0430448	-.003106	-.002714	.0053550
#2	.000034	1298.435	.0432770	-.001376	-.004568	.0088662
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.867995	.0030448	.3633681	.0009408	-.003710	.0003128
Stddev	.046083	.0000286	.0000576	.0000041	.002897	.0002925
%RSD	.5196602	.9400745	.0158503	.4385692	78.07613	93.51739
#1	8.900580	.0030246	.3633274	.0009438	-.005758	.0005197
#2	8.835409	.0030650	.3634088	.0009379	-.001662	.0001060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	6.607990
Stddev	.029374
%RSD	.4445154
#1	6.587219
#2	6.628760
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-147959-a-17-e Acquired: 7/16/2018 21:22:59 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1653.816	1063.313	7872.262	4142.603
Stddev	8.591	9.093	11.543	2.756
%RSD	.5194552	.8551711	.1466323	.0665399
#1	1647.741	1056.883	7864.100	4144.552
#2	1659.890	1069.743	7880.425	4140.654

Sample Name: 500-147959-a-18-e Acquired: 7/16/2018 21:27:06 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003445**	**1.172406**	**.0019120**	**.0673505**	**.3329324**	**-.000062**
Stddev	.0005709	.028094	.0019953	.0022551	.0001534	.000338
%RSD	165.7352	2.396289	104.3564	3.348335	.0460814	548.1758
#1	.0007482	1.152540	.0033229	.0657559	.3328239	.000177
#2	-.000059	1.192271	.0005011	.0689452	.3330409	-.000301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008100**	**85.59091**	**.0017518**	**-.000742**	**.0089155**	**.0038571**
Stddev	.001118	.05801	.0003346	.001646	.0003070	.0009986
%RSD	13.80386	.0677731	19.10014	221.9333	3.442877	25.88932
#1	-.008890	85.54989	.0015152	.000422	.0086985	.0045632
#2	-.007309	85.63193	.0019884	-.001906	.0091326	.0031510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0327022**	**4.227777**	**2.629927**	**.0101347**	**5.677079**	**3.179510**
Stddev	.0003014	.035142	.014406	.0002100	.001004	.000610
%RSD	.9216409	.8312079	.5477712	2.071790	.0176879	.0191874
#1	.0324890	4.202928	2.640114	.0099862	5.676369	3.179942
#2	.0329153	4.252626	2.619740	.0102832	5.677789	3.179079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147959-a-18-e Acquired: 7/16/2018 21:27:06 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000553	F 1292.213	.0408568	.0006110	-.003504	.0077338
Stddev	.000101	11.516	.0020754	.0026398	.000602	.0027980
%RSD	18.29209	.8911559	5.079719	432.0537	17.16875	36.17823
#1	-.000481	1300.356	.0393893	-.001256	-.003079	.0097122
#2	-.000624	1284.070	.0423243	.002478	-.003929	.0057553
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.443456	.0038440	.4024140	.0007291	-.005027	.0009214
Stddev	.168917	.0009234	.0003132	.0000189	.000973	.0003348
%RSD	1.788718	24.02149	.0778374	2.584901	19.35776	36.33866
#1	9.324013	.0044970	.4026354	.0007158	-.004339	.0011582
#2	9.562898	.0031911	.4021925	.0007424	-.005715	.0006847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	F 20.30925
Stddev	.35231
%RSD	1.734703
#1	20.06013
#2	20.55837
Check ?	Chk Fail
High Limit	20.00000
Low Limit	-.020000

Sample Name: 500-147959-a-18-e Acquired: 7/16/2018 21:27:06 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1644.361	1062.273	7890.938	4118.820
Stddev	19.339	13.469	19.704	14.375
%RSD	1.176069	1.267908	.2496995	.3490049
#1	1658.035	1071.797	7877.005	4108.655
#2	1630.686	1052.750	7904.871	4128.985

Sample Name: 147959-a-18-esd@5 Acquired: 7/16/2018 21:31:13 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000206**	**.2325546**	**.0011745**	**.0057652**	**.0673491**	**-.000171**	**-.002937**
Stddev	.000272	.0015504	.0016601	.0006191	.0001526	.000008	.000335
%RSD	131.9636	.6666853	141.3511	10.73915	.2265886	4.517593	11.39405
#1	-.000399	.2336509	.0000006	.0053274	.0672412	-.000176	-.003174
#2	-.000014	.2314583	.0023484	.0062030	.0674570	-.000165	-.002700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.90505**	**.0002737**	**-.004764**	**.0018953**	**.0008547**	**.0056916**	**.8738549**
Stddev	.03315	.0000784	.003845	.0001670	.0000226	.0001319	.0370742
%RSD	.1851264	28.64843	80.70062	8.810741	2.647058	2.316856	4.242607
#1	17.88161	.0003291	-.007483	.0017772	.0008707	.0055984	.8476395
#2	17.92848	.0002182	-.002046	.0020134	.0008387	.0057849	.9000704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4918190**	**.0020110**	**1.197738**	**.6632434**	**.0002762**	**277.2747**	**.0093969**
Stddev	.0087259	.0003398	.009529	.0029951	.0000984	.5327	.0005437
%RSD	1.774199	16.89774	.7955570	.4515877	35.63562	.1921043	5.785469
#1	.4979891	.0022513	1.191001	.6611255	.0002066	277.6514	.0090125
#2	.4856489	.0017707	1.204476	.6653613	.0003458	276.8981	.0097813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 147959-a-18-esd@5 Acquired: 7/16/2018 21:31:13 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001873**	**-.001537**	**.0041900**	**1.924213**	**.0022305**	**.0842576**	**.0002062**
Stddev	.000294	.001650	.0005889	.000634	.0006630	.0000358	.0000464
%RSD	15.68902	107.3375	14.05437	.0329399	29.72298	.0424744	22.49916
#1	-.002080	-.002704	.0046064	1.924662	.0017617	.0842829	.0002390
#2	-.001665	-.000371	.0037736	1.923765	.0026992	.0842323	.0001734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	**-.000719**	**.0005572**	**4.115778**
Stddev	.000532	.0001899	.007236
%RSD	73.99985	34.08342	.1758161
#1	-.000343	.0006915	4.120895
#2	-.001095	.0004229	4.110661
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1954.146**	**1174.231**	**8757.008**	**4262.510**
Stddev	1.669	.601	10.161	2.870
%RSD	.0854195	.0511484	.1160330	.0673349
#1	1955.327	1174.655	8749.823	4264.539
#2	1952.966	1173.806	8764.193	4260.480

Sample Name: 500-147959-a-18 du Acquired: 7/16/2018 21:35:19 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003746	1.144127	.0013903	.0643079	.3190764	-.000147
Stddev	.0005019	.006415	.0013399	.0010707	.0002899	.000083
%RSD	133.9848	.5607077	96.37776	1.664935	.0908439	56.66669
#1	.0007295	1.148663	.0023378	.0650650	.3188714	-.000205
#2	.0000197	1.139591	.0004428	.0635509	.3192814	-.000088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005393	82.44068	.0014625	.0035566	.0081323	.0033518
Stddev	.000943	.42680	.0001454	.0100201	.0002539	.0001555
%RSD	17.48645	.5177051	9.938275	281.7333	3.122244	4.637728
#1	-.004726	82.13889	.0015653	.0106419	.0083119	.0034617
#2	-.006060	82.74247	.0013597	-.003529	.0079528	.0032418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0314198	4.141993	2.460980	.0101125	5.457743	3.057347
Stddev	.0003784	.007885	.044233	.0006320	.046565	.007674
%RSD	1.204473	.1903777	1.797362	6.249285	.8531909	.2509963
#1	.0316874	4.136417	2.429703	.0105594	5.424816	3.051921
#2	.0311522	4.147569	2.492257	.0096657	5.490669	3.062773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147959-a-18 du Acquired: 7/16/2018 21:35:19 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000739	F 1254.632	.0381899	-.002727	-.001393	.0065050
Stddev	.000512	1.739	.0004651	.000401	.001714	.0002373
%RSD	69.29773	.1386447	1.217919	14.69527	123.0376	3.647555
#1	-.001101	1253.402	.0385188	-.002444	-.000181	.0063372
#2	-.000377	1255.862	.0378610	-.003011	-.002605	.0066728
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.080923	.0036013	.3879830	.0007073	-.003962	.0006337
Stddev	.024916	.0006516	.0002210	.0000573	.000239	.0004246
%RSD	.2743722	18.09382	.0569681	8.095093	6.044043	67.00828
#1	9.098541	.0040621	.3881393	.0006668	-.003793	.0009339
#2	9.063305	.0031406	.3878267	.0007478	-.004132	.0003334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	19.43559
Stddev	.04246
%RSD	.2184629
#1	19.40557
#2	19.46562
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-147959-a-18 du Acquired: 7/16/2018 21:35:19 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1660.610	1065.291	7897.882	4122.077
Stddev	4.505	4.668	11.137	4.002
%RSD	.2712856	.4382160	.1410155	.0970874
#1	1657.425	1061.990	7890.006	4124.907
#2	1663.796	1068.592	7905.757	4119.247

Sample Name: 500-147959-a-18 msd Acquired: 7/16/2018 21:39:26 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0501789	3.049205	.1011351	.9145204	2.147750	.0474903
Stddev	.0001516	.021766	.0020611	.0298110	.000786	.0001100
%RSD	.3021019	.7138388	2.037953	3.259740	.0365909	.2316206
#1	.0502861	3.033814	.1025925	.9356000	2.148306	.0474125
#2	.0500717	3.064596	.0996777	.8934409	2.147194	.0475681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5069948	93.58625	.0501394	-.002119	.4957018	.1850995
Stddev	.0180024	.26457	.0012915	.013062	.0138661	.0007095
%RSD	3.550798	.2827071	2.575785	616.4143	2.797256	.3833022
#1	.5197244	93.39917	.0510526	-.011355	.5055066	.1856012
#2	.4942652	93.77334	.0492262	.007117	.4858970	.1845978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2914232	5.127378	12.18332	.4799493	14.57034	3.571013
Stddev	.0003773	.031882	.02621	.0001117	.07839	.009340
%RSD	.1294715	.6217917	.2151597	.0232767	.5379983	.2615498
#1	.2911564	5.104834	12.20186	.4800283	14.51491	3.564409
#2	.2916900	5.149922	12.16479	.4798703	14.62576	3.577618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147959-a-18 msd Acquired: 7/16/2018 21:39:26 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8816490	F 1284.561	.5100930	.0956253	.4313618	.0867442
Stddev	.0250769	.610	.0151690	.0060494	.0129188	.0001501
%RSD	2.844321	.0474517	2.973770	6.326125	2.994897	.1730257
#1	.8993810	1284.130	.5208191	.0999029	.4404968	.0868503
#2	.8639169	1284.992	.4993669	.0913478	.4222268	.0866380
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.15011	1.008850	1.285215	.9579650	.0796968	.4956303
Stddev	.40343	.026839	.000722	.0016211	.0010575	.0008730
%RSD	3.067872	2.660384	.0562098	.1692233	1.326954	.1761474
#1	13.43538	1.027828	1.285725	.9568188	.0804446	.4962476
#2	12.86484	.989872	1.284704	.9591113	.0789490	.4950130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	19.92548
Stddev	.52341
%RSD	2.626818
#1	20.29558
#2	19.55538
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-147959-a-18 msd Acquired: 7/16/2018 21:39:26 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1656.947	1075.394	7878.158	4116.928
Stddev	44.456	27.585	16.752	5.237
%RSD	2.682989	2.565148	.2126364	.1272034
#1	1625.512	1055.888	7866.313	4113.225
#2	1688.382	1094.899	7890.004	4120.631

Sample Name: 500-147959-A-19-E Acquired: 7/16/2018 21:43:33 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002080**	**.5339004**	**.0027498**	**.1579298**	**.2486265**	**.0002703**
Stddev	.0001803	.0096278	.0028619	.0005910	.0010007	.0001650
%RSD	86.71018	1.803300	104.0767	.3742154	.4025003	61.04973
#1	.0000805	.5270925	.0007261	.1575119	.2479189	.0001536
#2	.0003355	.5407083	.0047735	.1583477	.2493342	.0003869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008832**	**139.5824**	**.0043174**	**.0062792**	**.0110443**	**.0030709**
Stddev	.003127	.6674	.0000975	.0056901	.0005504	.0005619
%RSD	35.40432	.4781062	2.257674	90.61828	4.983353	18.29898
#1	-.006621	139.1106	.0042485	.0022557	.0106551	.0034683
#2	-.011043	140.0543	.0043863	.0103027	.0114335	.0026736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0044656**	**3.650860**	**3.396631**	**.0097359**	**51.96773**	**1.620625**
Stddev	.0000138	.004048	.002182	.0004003	.26817	.007008
%RSD	.3087610	.1108666	.0642398	4.111603	.5160255	.4323967
#1	.0044558	3.653722	3.398174	.0094529	51.77811	1.615670
#2	.0044753	3.647998	3.395088	.0100190	52.15735	1.625580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-147959-A-19-E Acquired: 7/16/2018 21:43:33 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000201	F 1285.201	.2287707	-.002574	-.000095	.0056404
Stddev	.000236	8.342	.0011305	.001362	.003835	.0013537
%RSD	116.9960	.6490713	.4941698	52.91598	4027.597	24.00075
#1	-.000035	1279.303	.2279713	-.003537	.002617	.0065976
#2	-.000368	1291.100	.2295701	-.001611	-.002807	.0046831
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1000.000				
Low Limit		-1.00000				

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.347393	.0024982	.2660210	.0002519	-.005031	.0037863
Stddev	.007540	.0003391	.0003802	.0001127	.001101	.0004695
%RSD	.1187901	13.57567	.1429195	44.73709	21.89252	12.40017
#1	6.342061	.0022584	.2662899	.0003316	-.005810	.0034543
#2	6.352725	.0027380	.2657522	.0001722	-.004252	.0041183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	F 37.34107
Stddev	.12237
%RSD	.3277198
#1	37.25454
#2	37.42760
Check ?	Chk Fail
High Limit	20.00000
Low Limit	-.020000

Sample Name: 500-147959-A-19-E Acquired: 7/16/2018 21:43:33 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1611.467	1036.132	7765.542	4091.077
Stddev	2.391	1.901	2.538	11.908
%RSD	.1483562	.1834385	.0326820	.2910613
#1	1609.776	1034.788	7763.747	4099.497
#2	1613.157	1037.476	7767.337	4082.657

Sample Name: 500-148414-A-1-B@5 Acquired: 7/16/2018 21:47:40 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007510	.9009901	.0017664	.3375019	.1620098	.0004291
Stddev	.0005183	.0157454	.0012274	.0004489	.0005991	.0003140
%RSD	69.00864	1.747570	69.48652	.1330058	.3697768	73.17646
#1	.0003846	.8898564	.0026343	.3371845	.1624334	.0006511
#2	.0011175	.9121238	.0008985	.3378193	.1615862	.0002070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052139	116.8980	.0333533	-.001796	.0123881	.0086690
Stddev	.0020343	.0255	.0000911	.011616	.0001363	.0001999
%RSD	39.01588	.0217739	.2731761	646.6186	1.100013	2.305564
#1	.0066524	116.8800	.0332889	-.010010	.0124844	.0088104
#2	.0037755	116.9160	.0334177	.006417	.0122917	.0085277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016059	62.00196	5.100865	.0256904	23.04189	5.589721
Stddev	.0006700	.02444	.007849	.0001690	.02168	.005633
%RSD	41.72044	.0394111	.1538710	.6579955	.0940882	.1007739
#1	.0020797	62.01924	5.106415	.0258100	23.05722	5.593704
#2	.0011322	61.98468	5.095315	.0255709	23.02656	5.585738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148414-A-1-B@5 Acquired: 7/16/2018 21:47:40 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0159994	272.2625	.0855269	.0238472	.0066482	.0054208
Stddev	.0005059	1.0003	.0001120	.0017774	.0030258	.0032041
%RSD	3.161905	.3673848	.1310051	7.453396	45.51288	59.10795
#1	.0156417	271.5552	.0856062	.0251040	.0045087	.0076864
#2	.0163571	272.9697	.0854477	.0225904	.0087878	.0031551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.967206	.0027765	.3666521	-.000112	-.003620	.0080451
Stddev	.010913	.0010789	.0001249	.000192	.000105	.0002108
%RSD	.3677935	38.85857	.0340646	171.4691	2.904134	2.620360
#1	2.959489	.0035394	.3667405	-.000248	-.003545	.0081942
#2	2.974923	.0020136	.3665638	.000024	-.003694	.0078960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	F 42.67963
Stddev	.07138
%RSD	.1672355
#1	42.62916
#2	42.73010
Check ?	Chk Fail
High Limit	20.00000
Low Limit	-.020000

Sample Name: 500-148414-A-1-B@5 Acquired: 7/16/2018 21:47:40 Type: Unk
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1840.508	1102.200	8558.752	4301.167
Stddev	4.983	3.684	16.970	3.238
%RSD	.2707177	.3342086	.1982823	.0752827
#1	1844.032	1104.805	8570.752	4303.456
#2	1836.985	1099.596	8546.752	4298.877

Sample Name: CCV Acquired: 7/16/2018 21:51:44 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5086354**	**49.73800**	**.5084073**	**.4891574**	**.4838586**	**.5082618**
Stddev	.0021951	.07591	.0025411	.0032839	.0009436	.0024117
%RSD	.4315718	.1526208	.4998188	.6713296	.1950143	.4745057
#1	.5070832	49.79167	.5102041	.4914795	.4845258	.5065564
#2	.5101876	49.68432	.5066104	.4868354	.4831914	.5099671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5154618**	**26.48554**	**.5066310**	F **-.013191**	**.5178287**	**.4928061**
Stddev	.0034310	.01574	.0040070	.004980	.0032696	.0020673
%RSD	.6656084	.0594191	.7909215	37.75609	.6314026	.4194966
#1	.5178878	26.49667	.5094644	-.016713	.5201406	.4913442
#2	.5130357	26.47442	.5037976	-.009669	.5155167	.4942679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				-10.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5006054**	**26.12043**	**48.33335**	**3.850211**	**25.12243**	**4.922026**
Stddev	.0005083	.09280	.14002	.008132	.03044	.001106
%RSD	.1015288	.3552721	.2897026	.2112062	.1211847	.0224662
#1	.5002460	26.18605	48.43236	3.855961	25.14396	4.921244
#2	.5009648	26.05482	48.23434	3.844461	25.10090	4.922808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 7/16/2018 21:51:44 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4835851	25.24370	.5105532	.5292218	.4721228	.5009337
Stddev	.0041883	.05938	.0050821	.0067555	.0009662	.0033052
%RSD	.8660991	.2352151	.9954014	1.276504	.2046517	.6597972
#1	.4865466	25.28568	.5141468	.5339987	.4728060	.5032708
#2	.4806235	25.20171	.5069597	.5244449	.4714396	.4985966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4822447	.5331131	.5006332	.5010546	.5019176	5.169858
Stddev	.0070675	.0021216	.0001790	.0004752	.0028208	.004779
%RSD	1.465536	.3979698	.0357628	.0948329	.5620118	.0924482
#1	.4872422	.5346133	.5005066	.5007187	.5039123	5.173237
#2	.4772473	.5316129	.5007598	.5013906	.4999230	5.166478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.5348841
Stddev	.0045153
%RSD	.8441651
#1	.5380770
#2	.5316913
Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 7/16/2018 21:51:44 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2012.791	1200.532	9134.753	4378.268
Stddev	10.278	6.000	6.116	16.236
%RSD	.5106514	.4997725	.0669577	.3708413
#1	2005.524	1196.289	9130.428	4366.787
#2	2020.059	1204.774	9139.078	4389.749

Sample Name: CCB Acquired: 7/16/2018 21:55:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000164	.0066043	.0011204	-.010896	-.000256	-.000007
Stddev	.000266	.0040722	.0000484	.000056	.000006	.000153
%RSD	162.3346	61.66044	4.319105	.5181242	2.261257	2145.252
#1	-.000352	.0037248	.0010862	-.010856	-.000260	.000101
#2	.000024	.0094838	.0011547	-.010936	-.000252	-.000115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009998	.0051936	.0000809	F .0130682	.0003917	.0007124
Stddev	.0010271	.0004490	.0000666	.0044954	.0002436	.0003423
%RSD	102.7323	8.645864	82.40885	34.39979	62.18477	48.05201
#1	.0002735	.0048761	.0000338	.0162470	.0005640	.0009545
#2	.0017261	.0055112	.0001280	.0098894	.0002195	.0004704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0050000		
Low Limit				-.005000		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000664	-.001951	.0014424	.0009171	.0058749	.0006092
Stddev	.000080	.006529	.0057715	.0004006	.0329007	.0004976
%RSD	12.01993	334.6139	400.1236	43.67605	560.0244	81.67814
#1	-.000608	-.006568	.0055235	.0006339	.0291392	.0009610
#2	-.000721	.002665	-.002639	.0012003	-.017389	.0002573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 7/16/2018 21:55:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002475	.2351114	.0002032	.0010990	.0010014	.0014555
Stddev	.0000277	.0070291	.0006886	.0012603	.0005941	.0010270
%RSD	11.19717	2.989694	338.8351	114.6761	59.32692	70.56064
#1	.0002279	.2400817	.0006902	.0002079	.0005813	.0021817
#2	.0002670	.2301410	-.000284	.0019902	.0014215	.0007293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133595	.0001524	.0000111	-.000185	.0002040	.0008257
Stddev	.0008961	.0004570	.0000004	.000005	.0008673	.0002064
%RSD	6.707935	299.8936	3.697113	2.655945	425.0858	25.00183
#1	.0127258	-.000171	.0000108	-.000181	.0008173	.0009717
#2	.0139932	.000476	.0000114	-.000188	-.000409	.0006797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0007042
Stddev	.0000871
%RSD	12.36305
#1	.0007658
#2	.0006427
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: CCB Acquired: 7/16/2018 21:55:36 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2188.614	1237.023	9399.026	4390.444
Stddev	1.774	.966	12.088	20.074
%RSD	.0810716	.0780965	.1286084	.4572173
#1	2189.869	1237.706	9390.479	4404.638
#2	2187.360	1236.340	9407.574	4376.250

Sample Name: CCVL Acquired: 7/16/2018 21:59:42 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052198	.1958588	.0102775	.0380555	.0096838	.0034661
Stddev	.0004669	.0142945	.0005698	.0002849	.0000533	.0000677
%RSD	8.944329	7.298369	5.543887	.7486272	.5499572	1.953582
#1	.0055499	.2059665	.0098747	.0382569	.0097215	.0035140
#2	.0048896	.1857510	.0106804	.0378540	.0096462	.0034182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0479601	.2114609	.0018752	F -.005969	.0054526	.0100203
Stddev	.0010156	.0004008	.0001128	.002048	.0000371	.0000380
%RSD	2.117677	.1895490	6.013547	34.30932	.6798816	.3792930
#1	.0486782	.2117444	.0017954	-.004521	.0054789	.0099934
#2	.0472419	.2111775	.0019549	-.007417	.0054264	.0100471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				-30.0000%		

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091445	.2103841	.4820601	.0103107	.1007872	.0103541
Stddev	.0000215	.0455609	.0042776	.0004416	.0033795	.0001656
%RSD	.2350212	21.65605	.8873585	4.283404	3.353148	1.599752
#1	.0091597	.1781677	.4790353	.0106230	.1031769	.0102370
#2	.0091293	.2426005	.4850848	.0099984	.0983975	.0104712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 7/16/2018 21:59:42 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099644	1.203792	.0107410	.0054487	.0174475	.0100455
Stddev	.0001915	.003231	.0002274	.0006786	.0001214	.0007115
%RSD	1.922004	.2684178	2.117406	12.45496	.6958661	7.082636
#1	.0100998	1.201507	.0105802	.0049688	.0173616	.0105486
#2	.0098289	1.206077	.0109018	.0059286	.0175333	.0095424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1955598	.0401986	.0051883	.0044942	.0080737	.0056725
Stddev	.0021291	.0017426	.0000058	.0000312	.0003399	.0000411
%RSD	1.088696	4.334922	.1108048	.6940341	4.209737	.7248493
#1	.1940543	.0414308	.0051843	.0045163	.0083140	.0057016
#2	.1970652	.0389664	.0051924	.0044722	.0078334	.0056434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0210785
Stddev	.0004138
%RSD	1.962931
#1	.0207859
#2	.0213710
Check ?	Chk Pass
Value	
Range	

Sample Name: CCVL Acquired: 7/16/2018 21:59:42 Type: QC
Method: P6071618A Mode: CONC Corr. Factor: 1.000000
User: NOONE Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2188.592	1236.946	9383.831	4399.942
Stddev	2.428	.338	6.894	3.873
%RSD	.1109241	.0273615	.0734719	.0880327
#1	2190.308	1236.707	9388.706	4402.681
#2	2186.875	1237.185	9378.956	4397.203

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact	Check	Check Table
1	---	---	---	---	Cal	---	---	---	---	---
2	1	1	1	1	QC	S1	P8071318A	1	☒	S1
3	2	1	2	1	QC	S2		1	☒	S2
4	3	1	3	1	QC	ICV		1	☒	ICV
5	4	1	4	1	QC	ICB		1	☒	ICB
6	5	1	5	1	QC	ICVL		1	☒	CCVLL
7	6	1	6	1	QC	CRI		1	☒	CRI
8	7	1	7	1	QC	ICSA		1	☒	ICSA
9	8	1	8	1	QC	ICSAB		1	☒	ICSAB
10	9	1	9	1	QC	CCV		1	☒	CCV
11	10	1	10	1	QC	CCB		1	☒	CCB
12	11	1	11	1	QC	MRL		1	☒	CCVLL
13	109	2	1	5	QC	MRL		1	☒	CCVLL
14	12	1	12	1	Unk	lcs 500-440600/2-a		1	☒	RLTABLE
15	110	2	2	5	QC	CCV		1	☒	CCV
16	111	2	3	5	QC	CCB		1	☒	CCB
17	112	2	4	5	QC	CCVL		1	☒	CCVLL
18	13	1	1	2	Unk	500-148137-a-1-c@10		1	☒	RLTABLE
19	14	1	2	2	Unk	500-148211-a-9-b@5		1	☒	RLTABLE
20	15	1	3	2	Unk	500-148211-a-10-b@5		1	☒	RLTABLE
21	16	1	4	2	Unk	500-148259-a-1-a@10		1	☒	RLTABLE
22	17	1	5	2	Unk	mb 500-440708/1-a		1	☒	RLTABLE
23	18	1	6	2	Unk	lcs 500-440708/2-a		1	☒	RLTABLE
24	19	1	7	2	Unk	500-148287-a-2-a		1	☒	RLTABLE
25	20	1	8	2	Unk	500-148287-a-5-a		1	☒	RLTABLE
26	21	1	9	2	Unk	500-148287-a-7-a		1	☒	RLTABLE
27	22	1	10	2	QC	CCV		1	☒	CCV
28	23	1	11	2	QC	CCB		1	☒	CCB
29	24	1	12	2	Unk	500-148287-a-12-a		1	☒	RLTABLE
30	25	1	1	3	Unk	500-148287-a-13-a		1	☒	RLTABLE
31	26	1	2	3	Unk	500-148287-a-15-a		1	☒	RLTABLE
32	27	1	3	3	Unk	148287-a-15-aSD@5		1	☒	RLTABLE
33	28	1	4	3	Unk	500-148287-a-15-b du		1	☒	RLTABLE
34	29	1	5	3	Unk	500-148287-a-15-c ms		1	☒	RLTABLE
35	30	1	6	3	Unk	148287-a-15-d msd		1	☒	RLTABLE
36	31	1	7	3	Unk	500-148287-a-21-a		1	☒	RLTABLE
37	32	1	8	3	Unk	500-148287-a-23-a		1	☒	RLTABLE
38	33	1	9	3	Unk	500-148287-a-24-a		1	☒	RLTABLE
39	34	1	10	3	QC	CCV		1	☒	CCV
40	35	1	11	3	QC	CCB		1	☒	CCB
41	36	1	12	3	Unk	500-148287-a-25-a		1	☒	RLTABLE
42	37	1	1	4	Unk	500-148287-a-34-a		1	☒	RLTABLE
43	38	1	2	4	Unk	500-148287-a-35-a		1	☒	RLTABLE
44	39	1	3	4	Unk	148287-a-35-aSD@5		1	☒	RLTABLE
45	40	1	4	4	Unk	500-148287-a-35-b du		1	☒	RLTABLE
46	41	1	5	4	Unk	500-148287-a-35-c ms		1	☒	RLTABLE
47	42	1	6	4	Unk	148287-a-35-d msd		1	☒	RLTABLE
48	43	1	7	4	Unk	500-148287-a-37-a		1	☒	RLTABLE
49	44	1	8	4	Unk	500-148287-a-41-a		1	☒	RLTABLE
50	45	1	9	4	Unk	500-148287-a-42-a		1	☒	RLTABLE
51	46	1	10	4	QC	CCV		1	☒	CCV
52	47	1	11	4	QC	CCB		1	☒	CCB
53	48	1	12	4	Unk	500-148287-a-45-a		1	☒	RLTABLE
54	49	1	1	5	Unk	500-148287-a-46-a		1	☒	RLTABLE
55	50	1	2	5	Unk	500-148287-a-48-a		1	☒	RLTABLE
56	51	1	3	5	Unk	500-148287-a-51-a		1	☒	RLTABLE
57	52	1	4	5	QC	CCV		1	☒	CCV
58	53	1	5	5	QC	CCB		1	☒	CCB
59	54	1	6	5	QC	CCVL		1	☒	CCVLL

	Fail Action
1	None
2	None
3	None
4	None
5	None
6	None
7	None
8	None
9	None
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11	None
12	None
13	None
14	---
15	None
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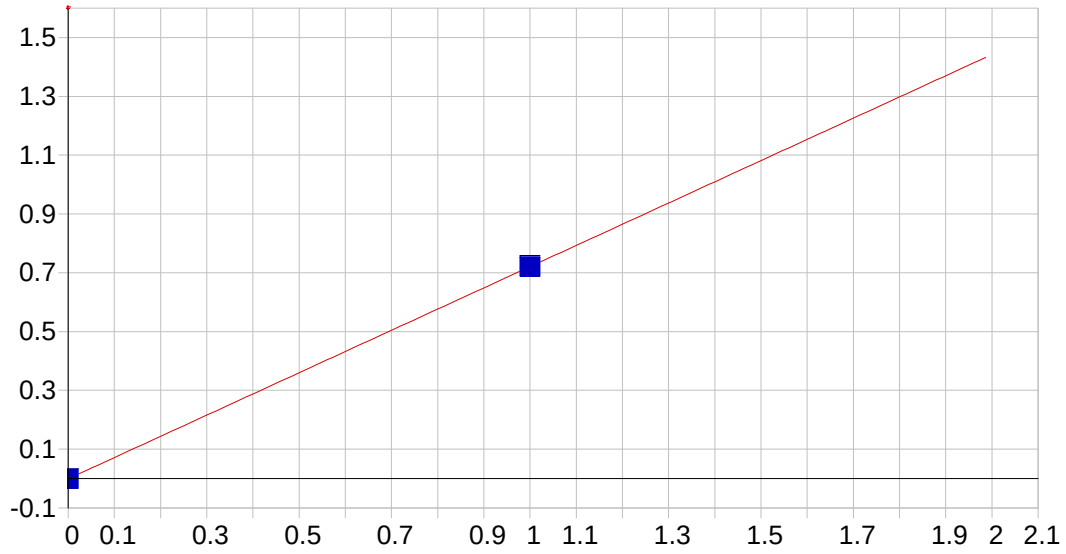
46	---
47	---
48	---
49	---
50	---
51	None
52	None
53	---
54	---
55	---
56	---
57	None
58	None
59	None

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact	Check	Check Table
60	Rinse	---	---	---	Rinse	Rinse	---	---	---	---
61	Rinse	---	---	---	Rinse	Rinse	---	---	---	---
62	Rinse	---	---	---	Rinse	Rinse	---	---	---	---
63	Rinse	---	---	---	Rinse	Rinse	---	---	---	---
64	Rinse	---	---	---	Rinse	Rinse	---	---	---	---
65	Rinse	---	---	---	Rinse	Rinse	---	---	---	---

	Fail Action
60	---
61	---
62	---
63	---
64	---
65	---

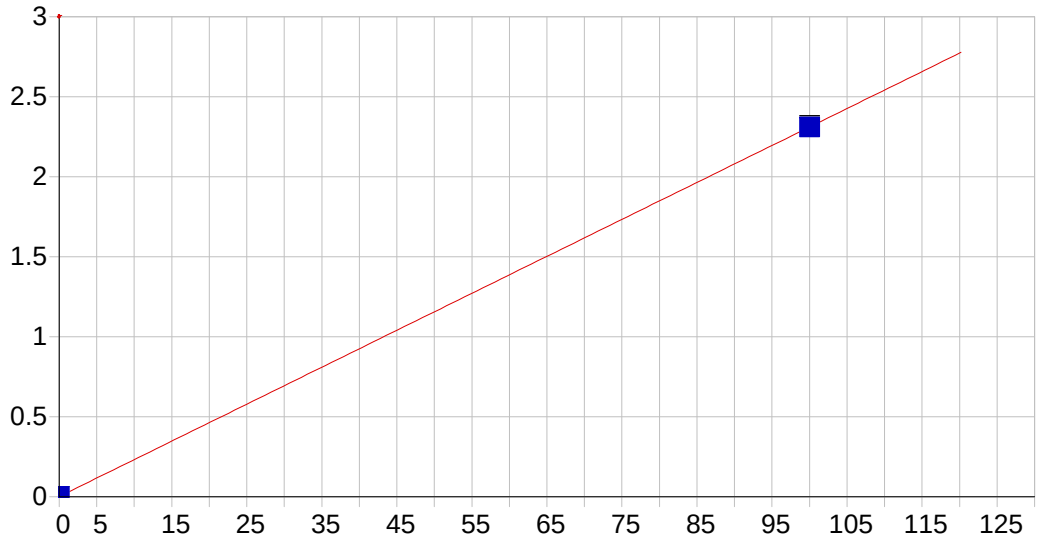


Ag 328.068 {103}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000650	Re-Slope:	1.000000
A1 (Gain):	0.721484	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000667		
Predicted MQL:	0.002222		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00065	.000	1
S1	1.0000	1.0000	.000	.000	.72111	.004	1

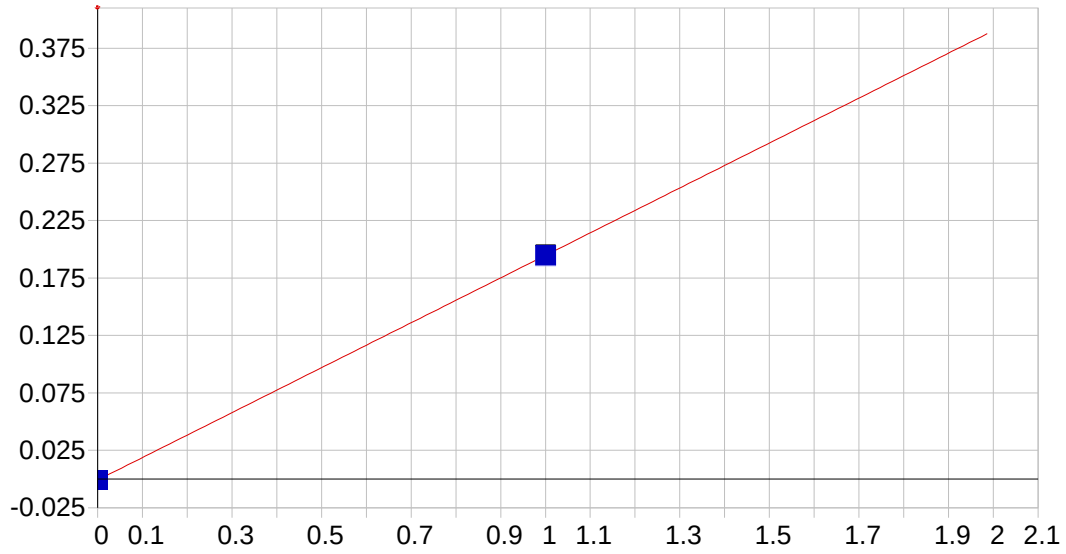


Al 308.215 {109}

Date of Fit:	7/13/2018 10:07:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001252	Re-Slope:	1.000000
A1 (Gain):	0.023096	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.018122		
Predicted MQL:	0.060407		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00125	.000	1
S2	100.00	100.00	.000	.000	2.3110	.007	1

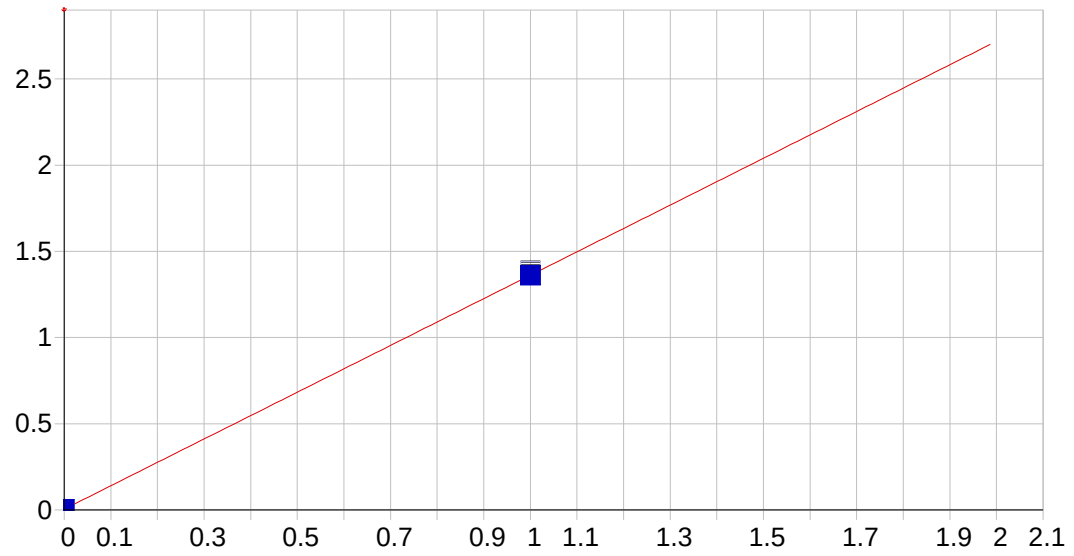


As 189.042 {478}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000794	Re-Slope:	1.000000
A1 (Gain):	0.195518	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002642		
Predicted MQL:	0.008805		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00079	.000	1
S1	1.0000	1.0000	.000	.000	.19396	.000	1

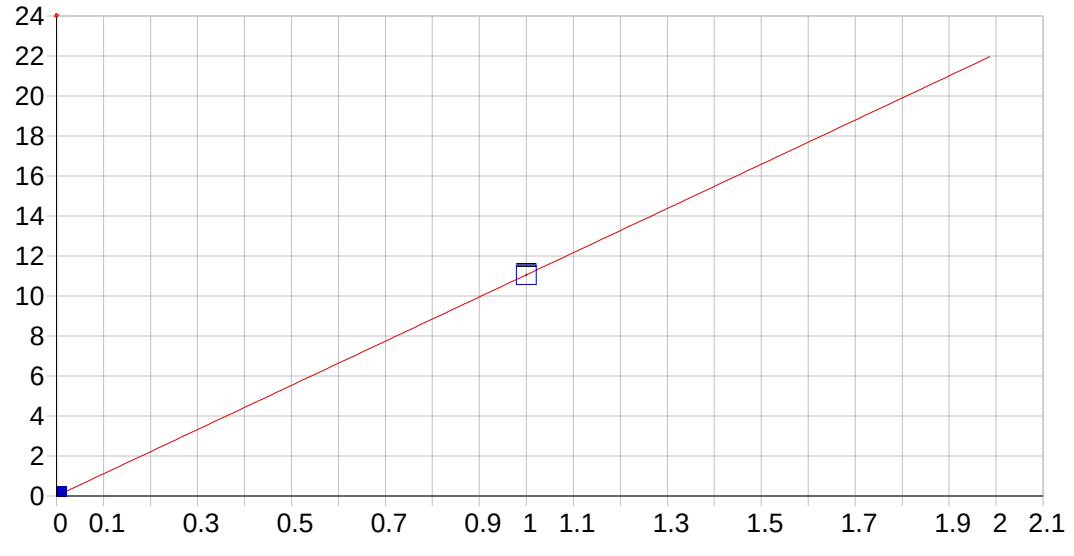


B 208.959 {461}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004344	Re-Slope:	1.000000
A1 (Gain):	1.357103	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000403		
Predicted MQL:	0.001342		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00434	.000	1
S1	1.0000	1.00000	.000	.000	1.3836	.002	1

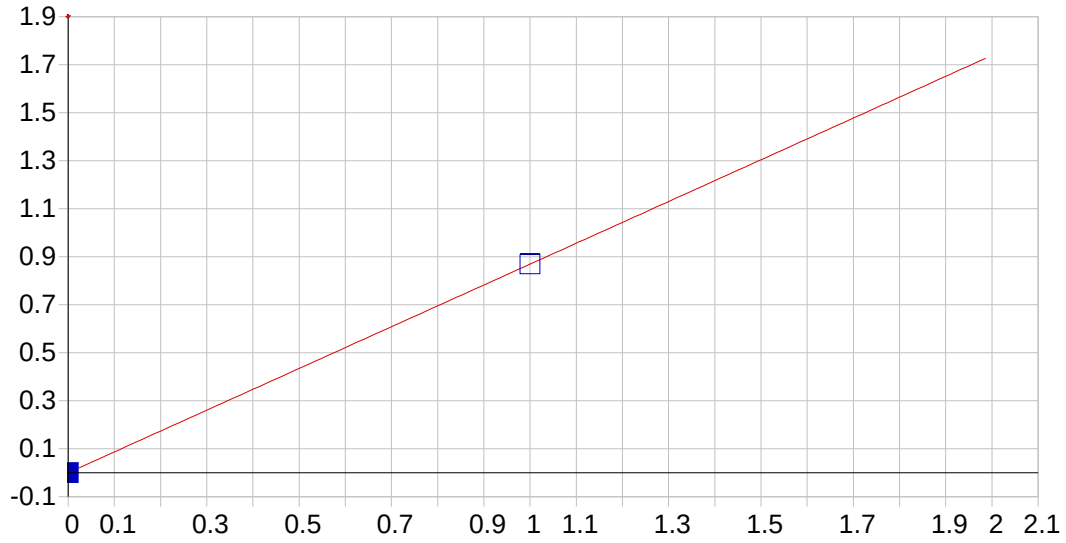


Ba 455.403 { 74}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004662	Re-Slope:	1.000000
A1 (Gain):	11.053522	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000089		
Predicted MQL:	0.000298		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00466	.002	1
S1	1.0000	1.0000	.000	.000	11.058	.068	1

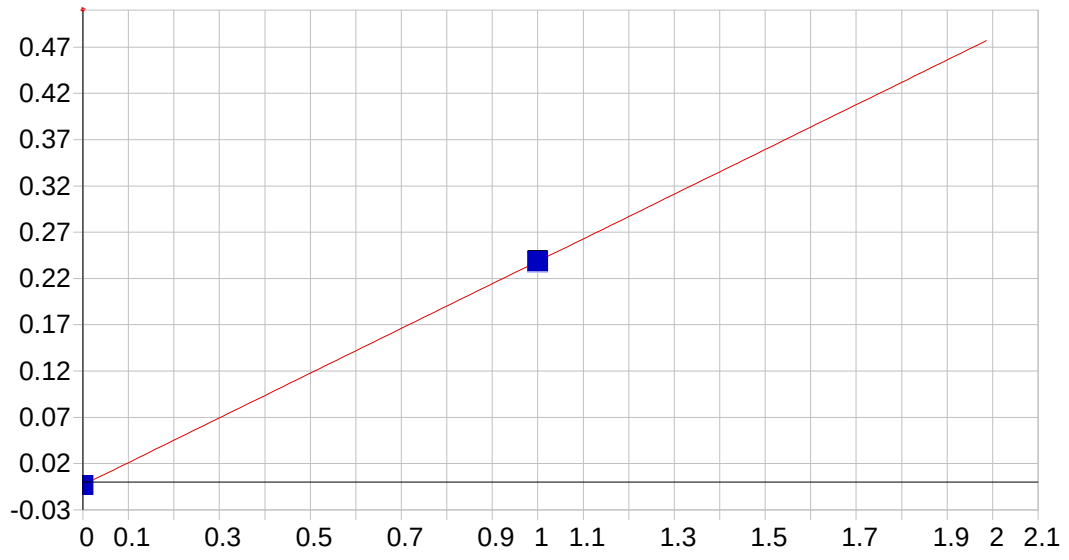


Be 234.861 {143}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000157	Re-Slope:	1.000000
A1 (Gain):	0.869451	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000315		
Predicted MQL:	0.001050		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00016	.000	1
S1	1.0000	1.0000	.000	.000	.86929	.001	1

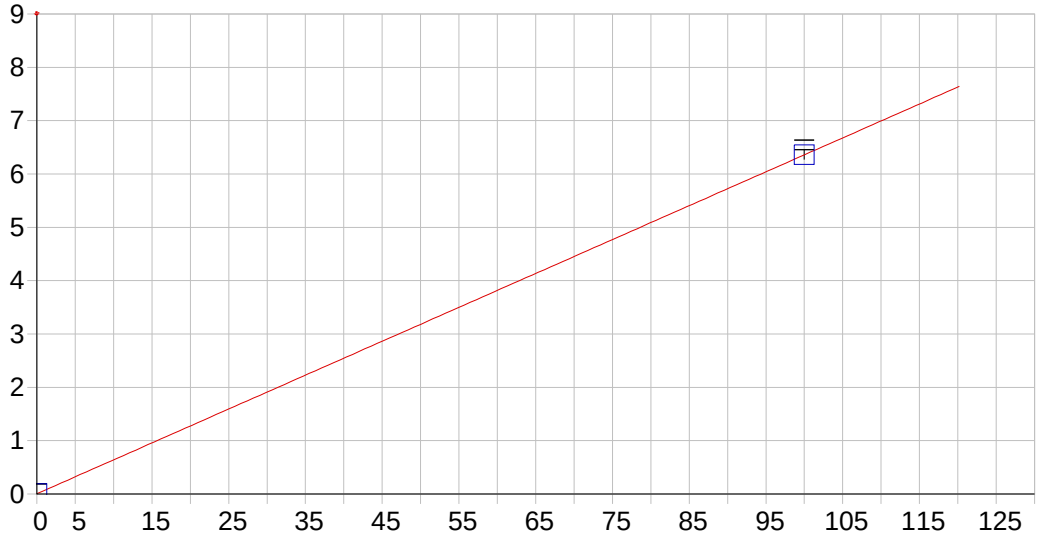


Bi 223.061 {451}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003073	Re-Slope:	1.000000
A1 (Gain):	0.241647	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001822		
Predicted MQL:	0.006073		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00307	.000	1
S1	1.0000	1.0000	.000	.000	.23680	.001	1

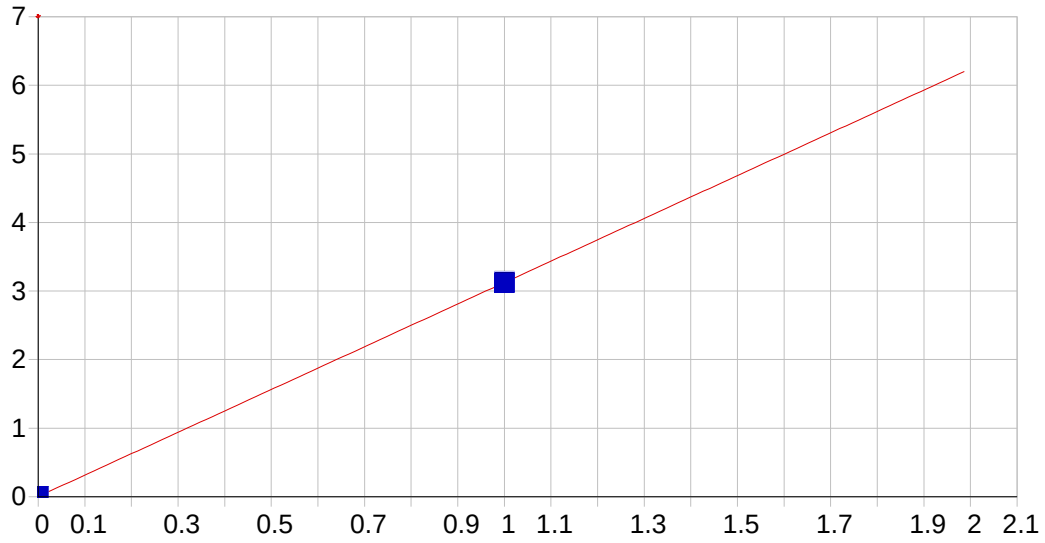


Ca 317.933 {106}

Date of Fit:	7/13/2018 10:07:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004623	Re-Slope:	1.000000
A1 (Gain):	0.063544	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.005045		
Predicted MQL:	0.016816		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00462	.000	1
S2	100.00	100.00	.000	.000	6.3590	.090	1

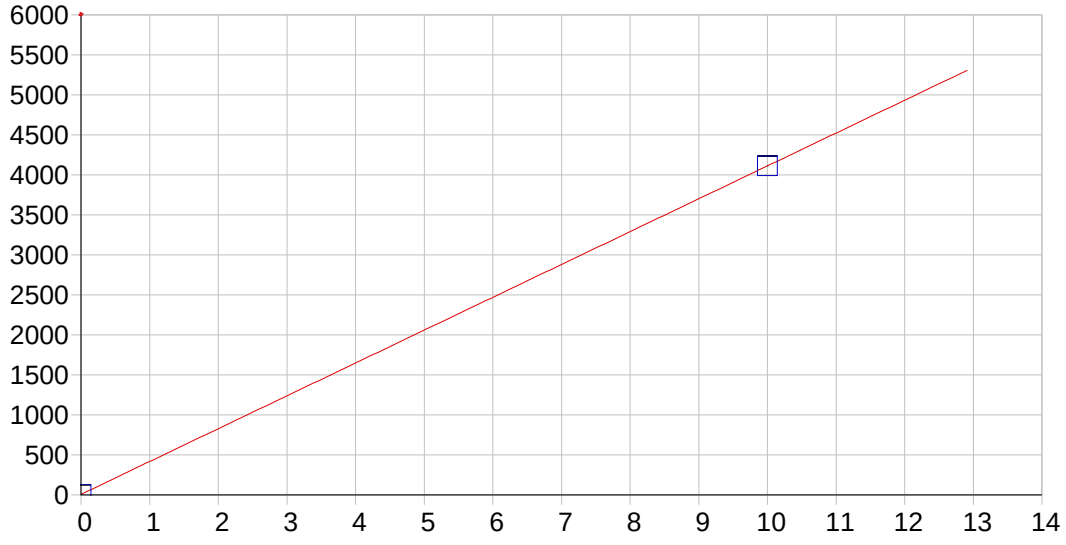


Cd 228.802 {447}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004011	Re-Slope:	1.000000
A1 (Gain):	3.119407	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000249		
Predicted MQL:	0.000832		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00401	.000	1
S1	1.0000	1.0000	.000	.000	3.1408	.002	1

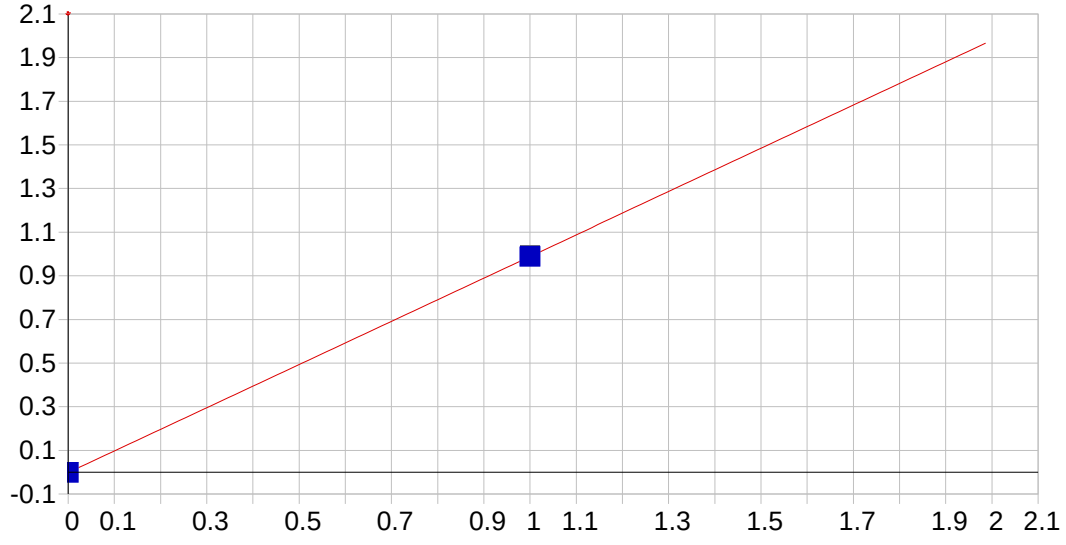


Ce 404.076 { 83}

Date of Fit:	7/13/2018 10:11:49	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	6.642013	Re-Slope:	1.000000
A1 (Gain):	410.569387	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.012091		
Predicted MQL:	0.040303		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	6.6420	5.06	1
CE	10.000	10.000	.000	.000	4112.3	1.21	1

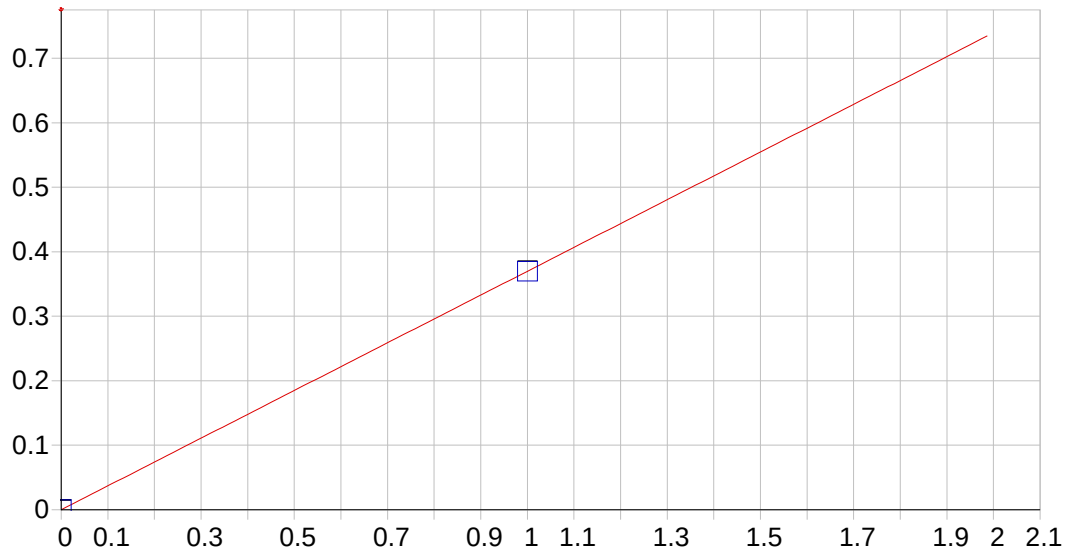


Co 228.616 {447}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001235	Re-Slope:	1.000000
A1 (Gain):	0.990206	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000426		
Predicted MQL:	0.001419		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00124	.000	1
S1	1.0000	1.0000	.000	.000	.99104	.000	1

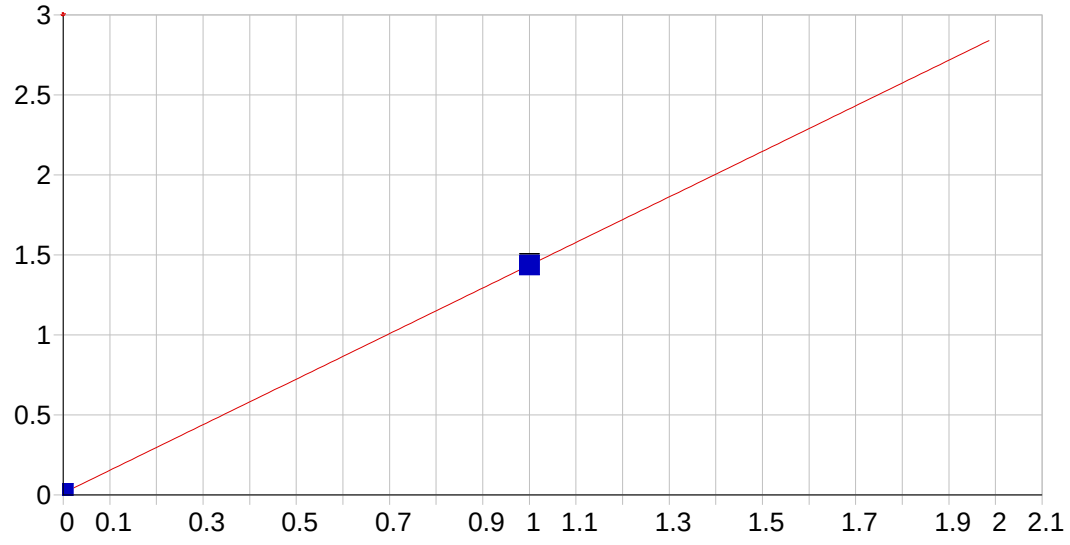


Cr 267.716 {126}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000065	Re-Slope:	1.000000
A1 (Gain):	0.369717	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000871		
Predicted MQL:	0.002903		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00006	.000	1
S1	1.0000	1.0000	.000	.000	.36978	.000	1

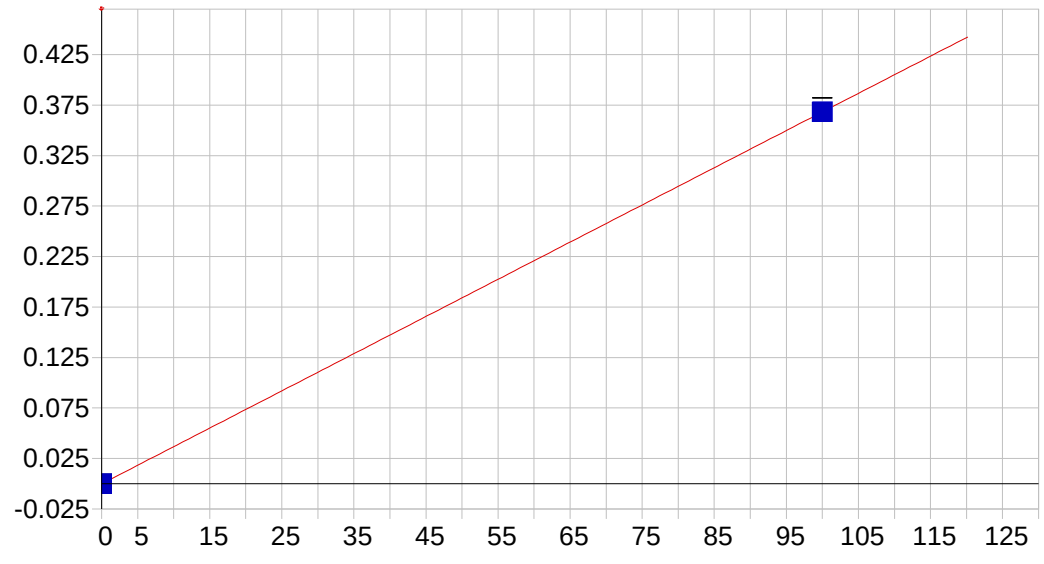


Cu 324.754 {104}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.011540	Re-Slope:	1.000000
A1 (Gain):	1.423828	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000326		
Predicted MQL:	0.001088		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01154	.000	1
S1	1.0000	1.0000	.000	.000	1.4362	.009	1

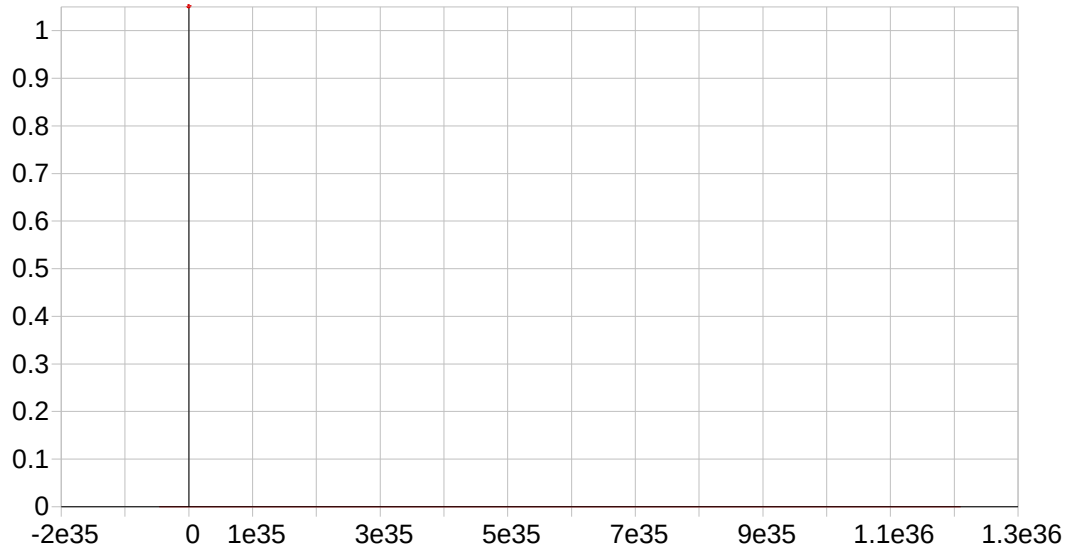


Fe 271.441 {124}

Date of Fit:	7/13/2018 10:07:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000102		Re-Slope:	1.000000	
A1 (Gain):	0.003683		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	1.000000		Status:	OK.	
Std Error of Est:	0.000000				
Predicted MDL:	0.062736				
Predicted MQL:	0.209120				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00010	.000	1
S2	100.00	100.00	.000	.000	.36816	.004	1

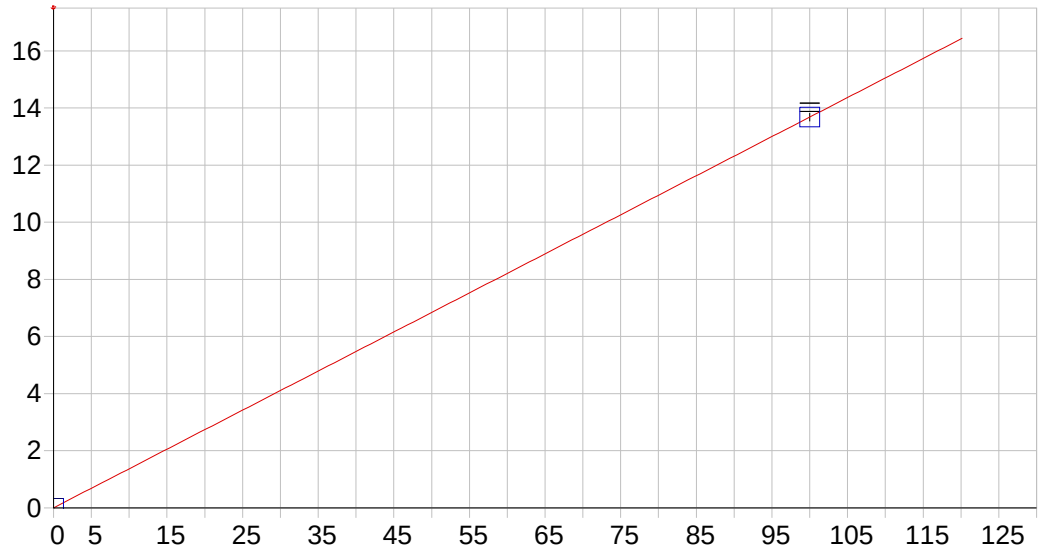


In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

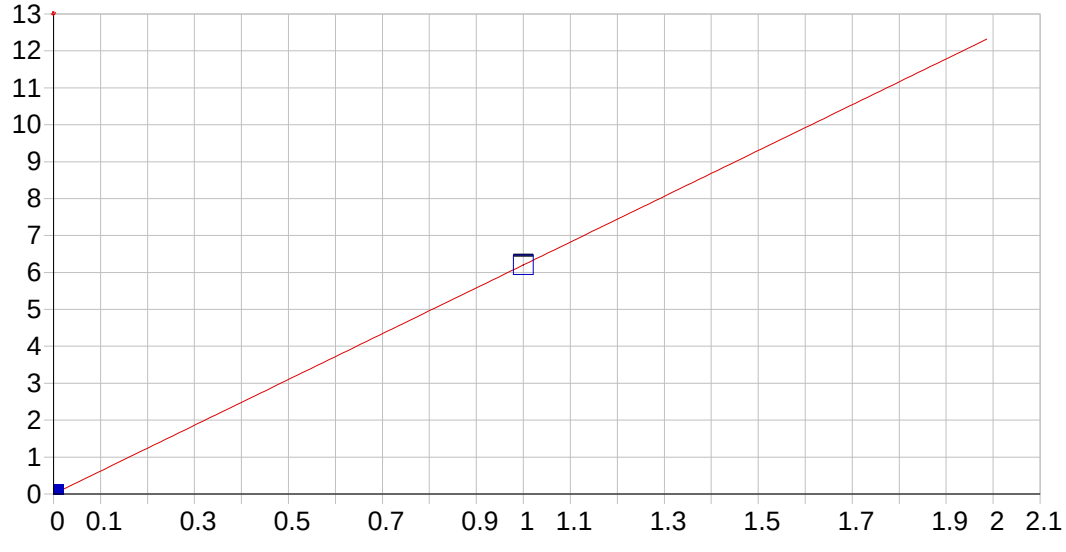


K 766.490 { 44}

Date of Fit:	7/13/2018 10:07:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002814	Re-Slope:	1.000000
A1 (Gain):	0.136807	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.013569		
Predicted MQL:	0.045229		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00281	.001	1
S2	100.00	100.00	.000	.000	13.684	.145	1

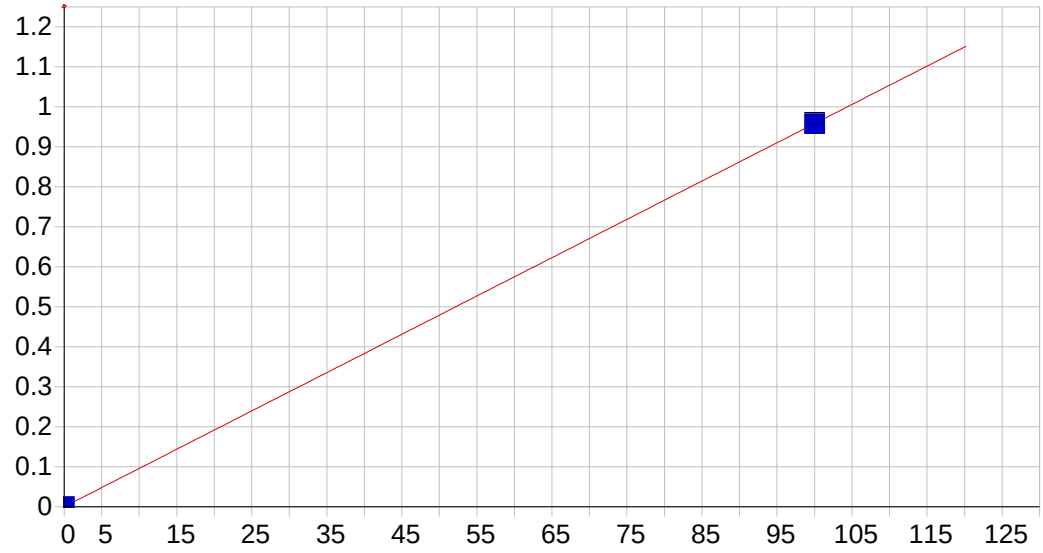


Li 670.784 { 50}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001157	Re-Slope:	1.000000
A1 (Gain):	6.200697	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000323		
Predicted MQL:	0.001076		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00116	.001	1
S1	1.0000	1.0000	.000	.000	6.2019	.025	1

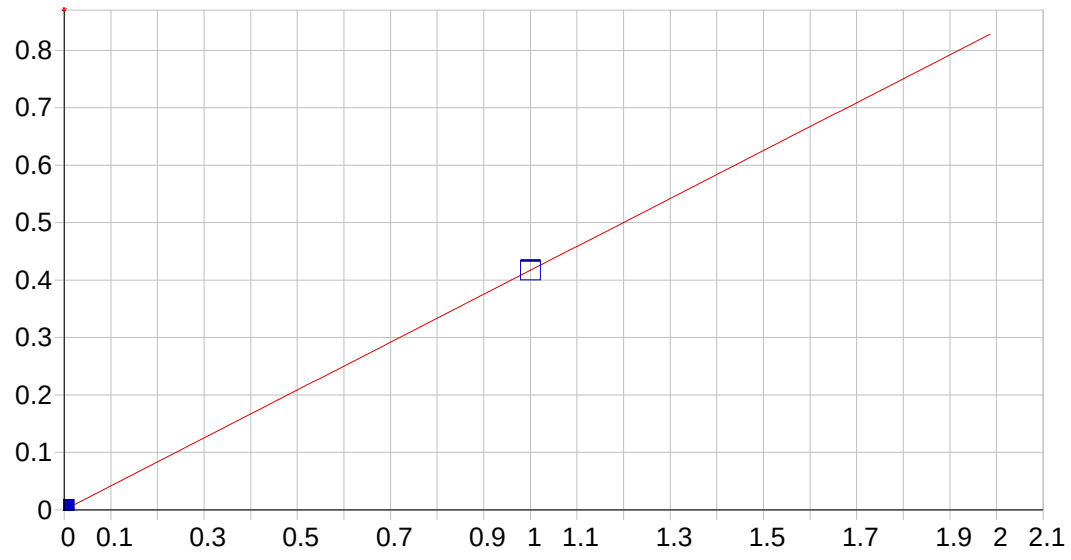


Mg 279.079 {121}

Date of Fit:	7/13/2018 10:07:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000159	Re-Slope:	1.000000
A1 (Gain):	0.009580	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.024466		
Predicted MQL:	0.081553		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00016	.000	1
S2	100.00	100.00	.000	.000	.95815	.003	1

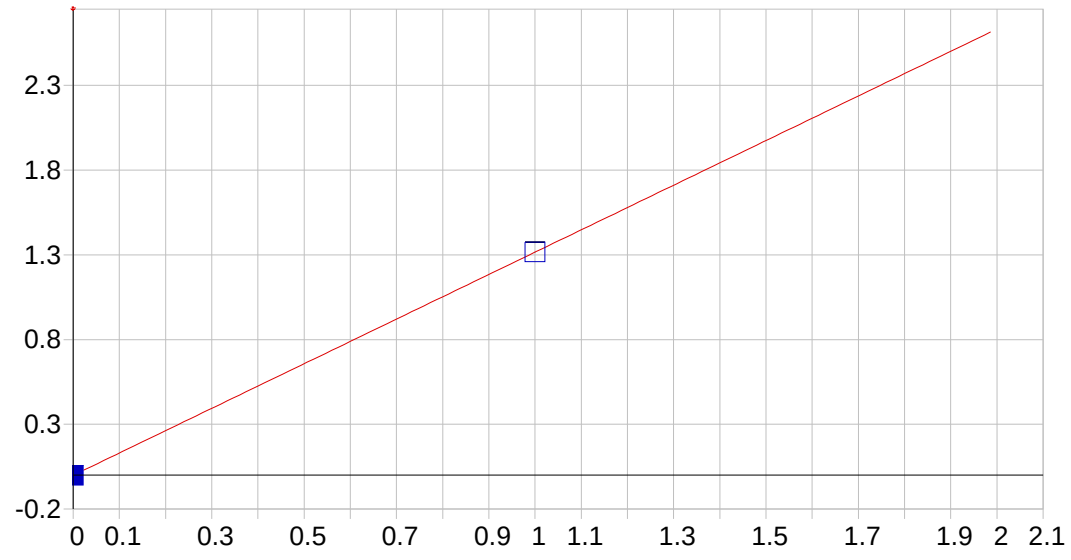


Mn 257.610 {131}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000269	Re-Slope:	1.000000
A1 (Gain):	0.416732	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000572		
Predicted MQL:	0.001907		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00027	.000	1
S1	1.0000	1.0000	.000	.000	.41700	.001	1

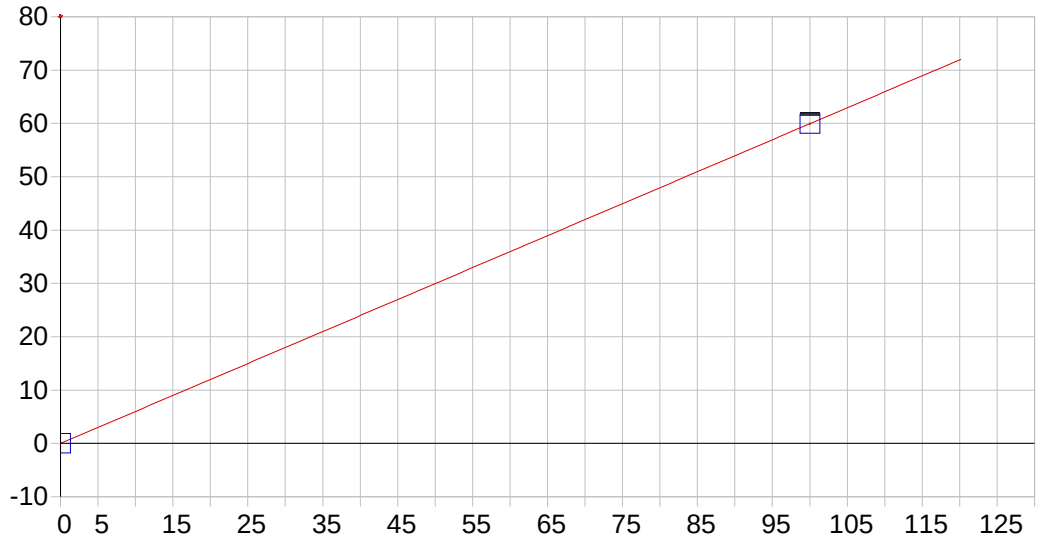


Mo 202.030 {467}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001174	Re-Slope:	1.000000
A1 (Gain):	1.317012	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000435		
Predicted MQL:	0.001450		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00117	.000	1
S1	1.0000	1.0000	.000	.000	1.3158	.001	1

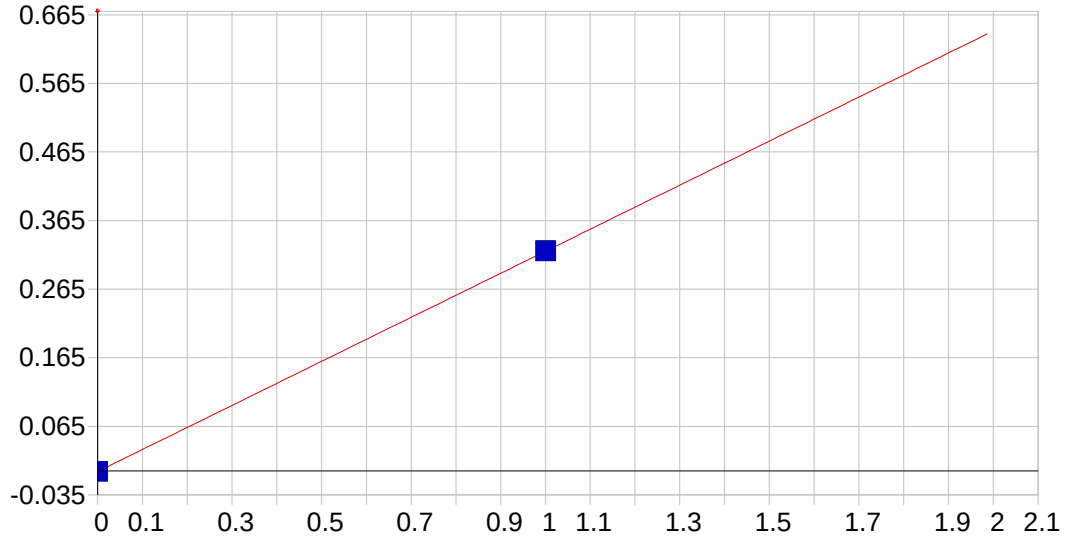


Na 589.592 { 57}

Date of Fit:	7/13/2018 10:07:47	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000108	Re-Slope:	1.000000
A1 (Gain):	0.599332	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.003019		
Predicted MQL:	0.010064		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00011	.002	1
S2	100.00	100.00	.000	.000	59.933	.187	1

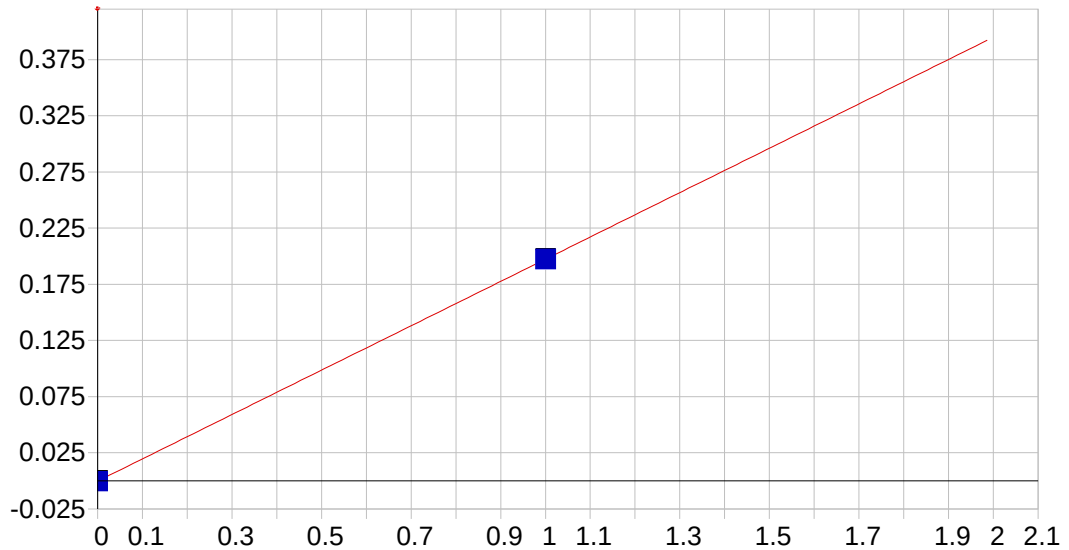


Ni 231.604 {446}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000882	Re-Slope:	1.000000
A1 (Gain):	0.321197	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001081		
Predicted MQL:	0.003602		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00088	.000	1
S1	1.0000	1.0000	.000	.000	.32047	.000	1

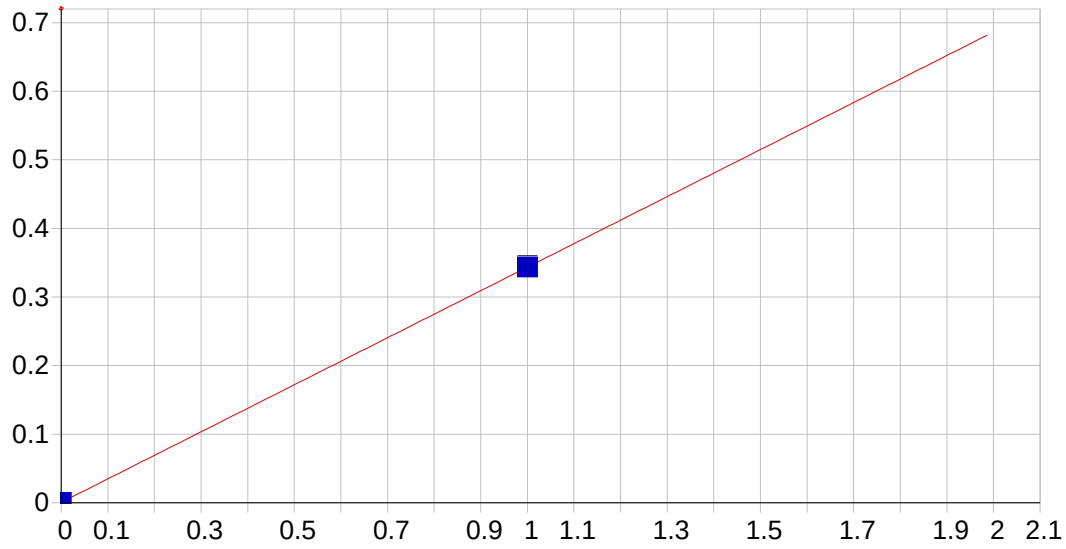


Pb 220.353 {453}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000159	Re-Slope:	1.000000
A1 (Gain):	0.197548	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002191		
Predicted MQL:	0.007302		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00016	.000	1
S1	1.0000	1.00000	.000	.000	.19707	.000	1

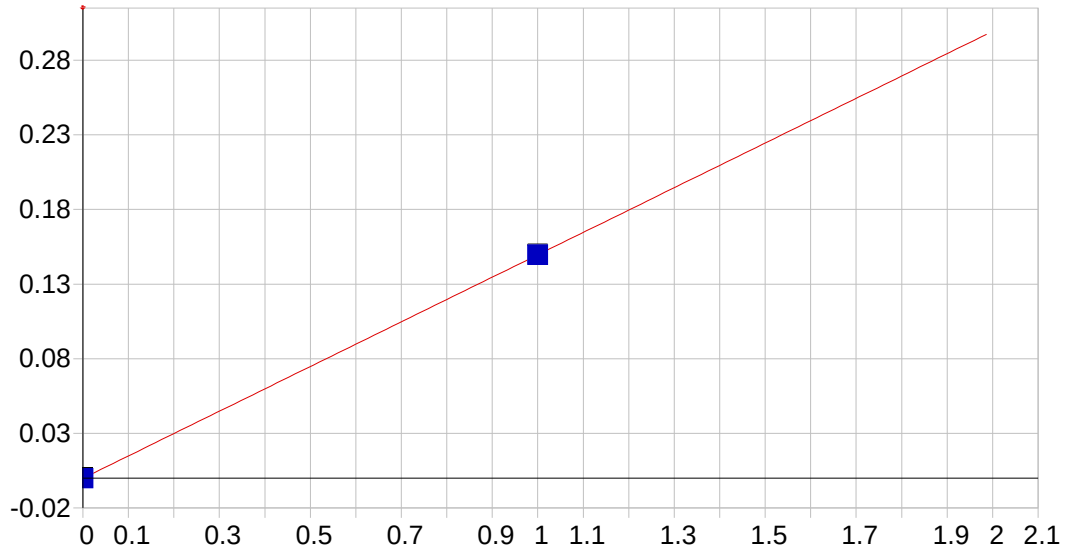


Sb 206.833 {463}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000574	Re-Slope:	1.000000
A1 (Gain):	0.342953	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001677		
Predicted MQL:	0.005591		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00057	.000	1
S1	1.0000	1.0000	.000	.000	.34448	.001	1

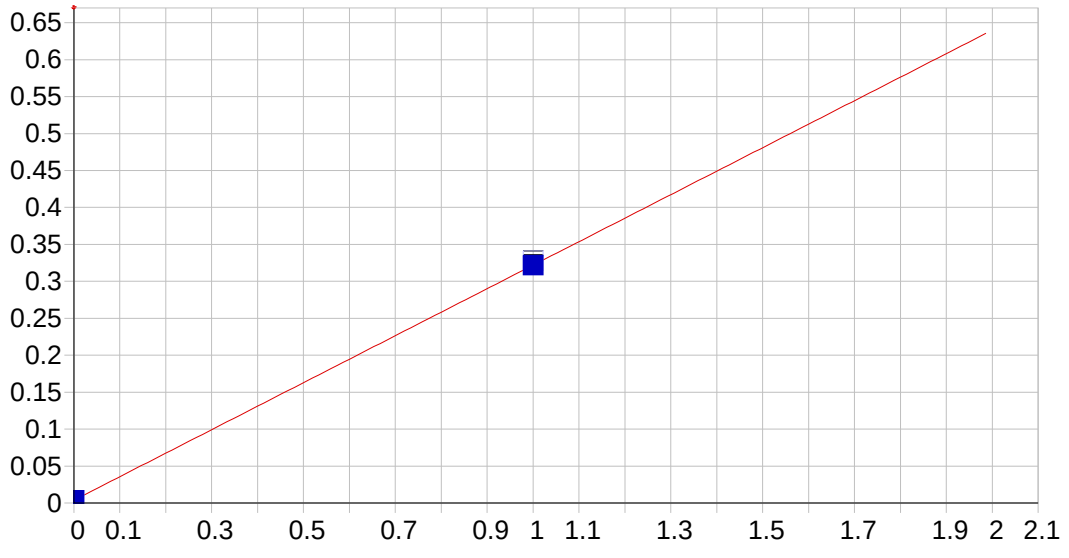


Se 196.090 {472}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000129	Re-Slope:	1.000000
A1 (Gain):	0.149781	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.003520		
Predicted MQL:	0.011732		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00013	.000	1
S1	1.0000	1.0000	.000	.000	.14969	.000	1

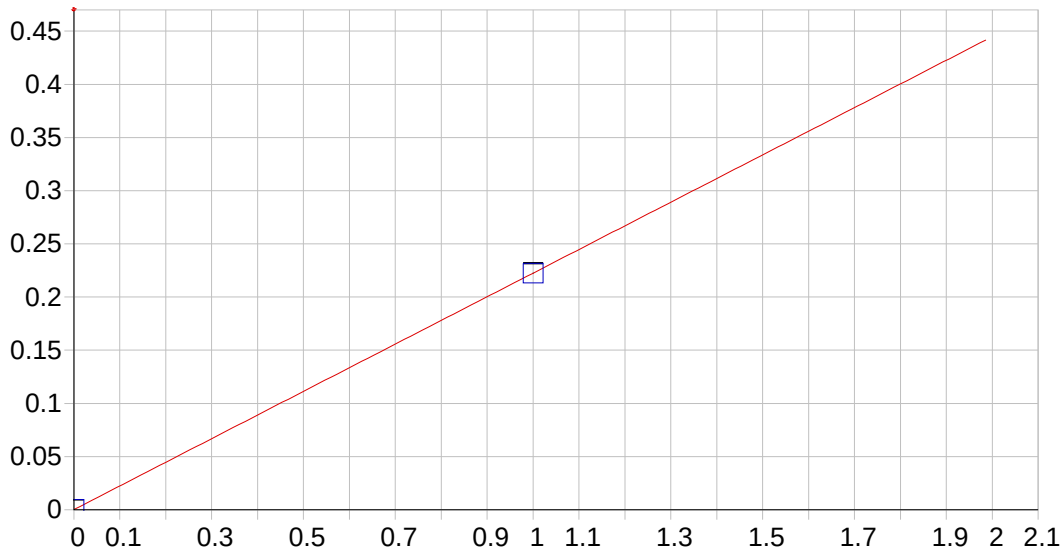


Si 212.412 {459}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003827	Re-Slope:	1.000000
A1 (Gain):	0.318035	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001413		
Predicted MQL:	0.004709		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00383	.000	1
S1	1.0000	1.00000	.000	.000	.32805	.000	1

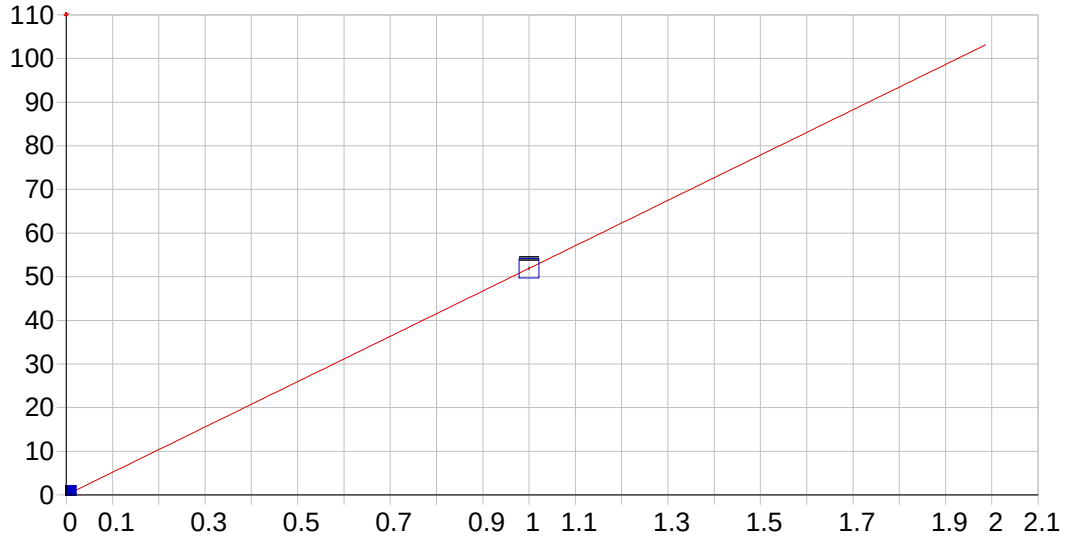


Sn 189.989 {477}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000179	Re-Slope:	1.000000
A1 (Gain):	0.222323	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001604		
Predicted MQL:	0.005346		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00018	.000	1
S1	1.0000	1.0000	.000	.000	.22250	.000	1

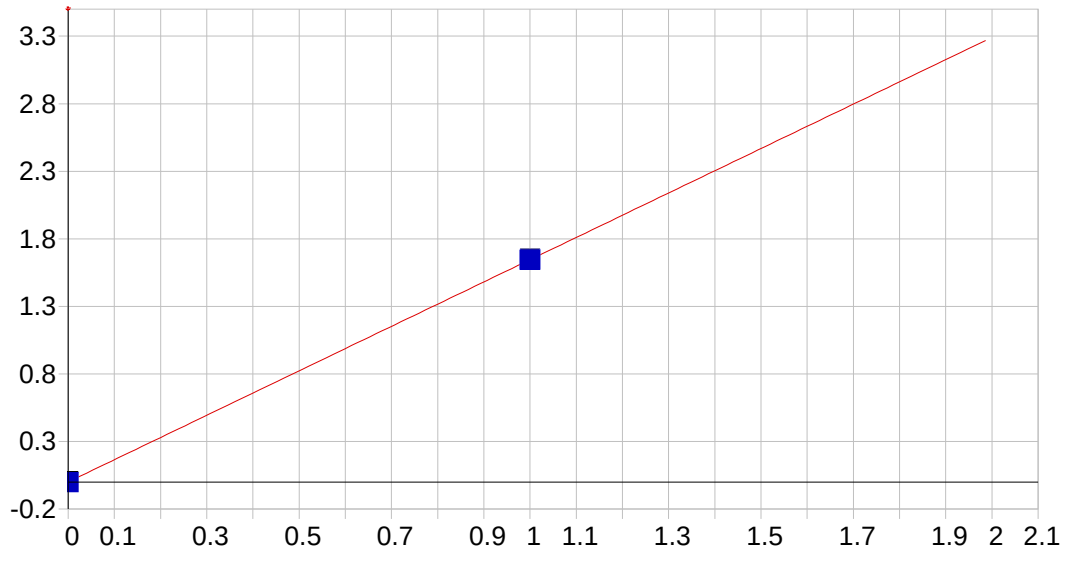


Sr 421.552 { 80}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000529	Re-Slope:	1.000000
A1 (Gain):	51.919502	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000012		
Predicted MQL:	0.000039		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00053	.000	1
S1	1.0000	1.0000	.000	.000	51.920	.392	1

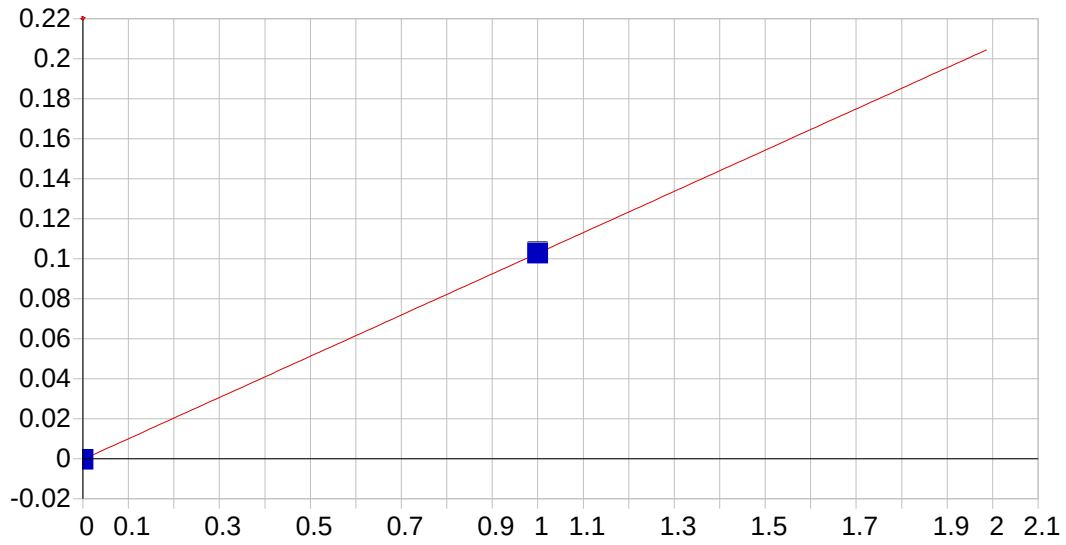


Ti 334.941 {101}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000145	Re-Slope:	1.000000
A1 (Gain):	1.645328	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000196		
Predicted MQL:	0.000654		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00014	.000	1
S1	1.0000	1.00000	.000	.000	1.6514	.004	1

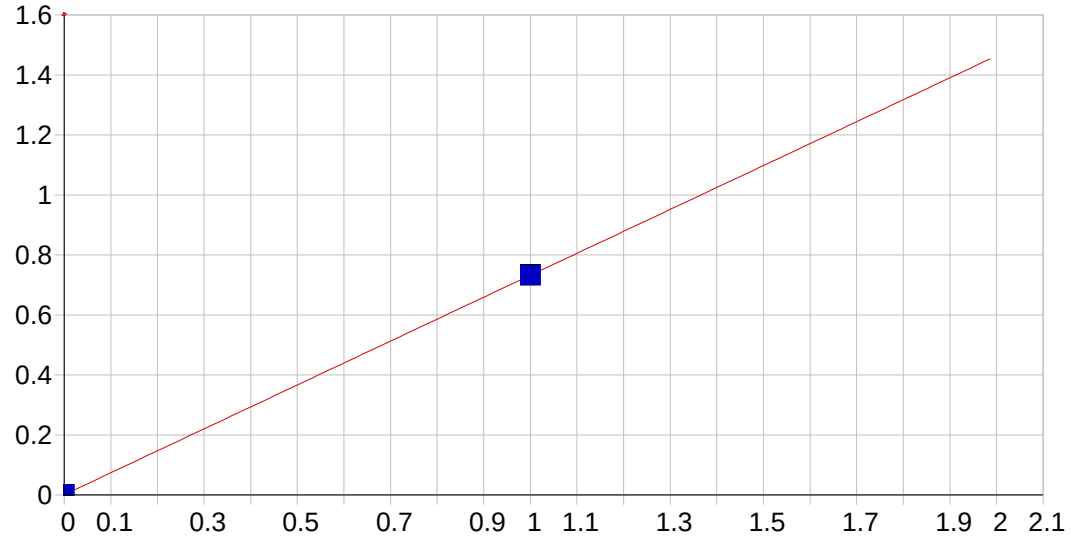


Tl 190.856 {477}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000288	Re-Slope:	1.000000
A1 (Gain):	0.103057	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001978		
Predicted MQL:	0.006592		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00029	.000	1
S1	1.0000	1.0000	.000	.000	.10309	.000	1

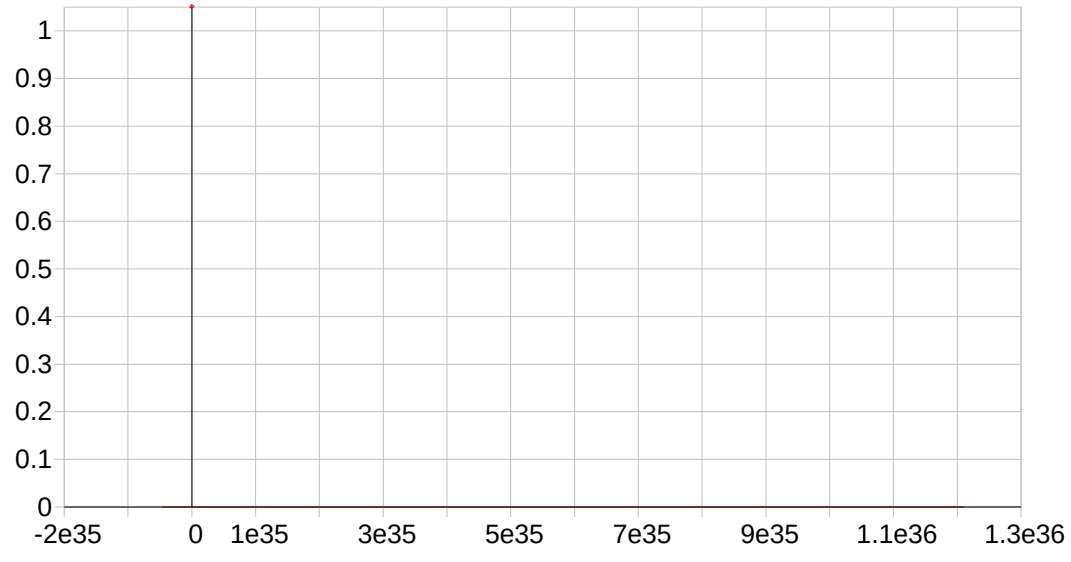


V 292.402 {115}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000817	Re-Slope:	1.000000
A1 (Gain):	0.731338	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000583		
Predicted MQL:	0.001943		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00082	.000	1
S1	1.0000	1.0000	.000	.000	.73173	.003	1

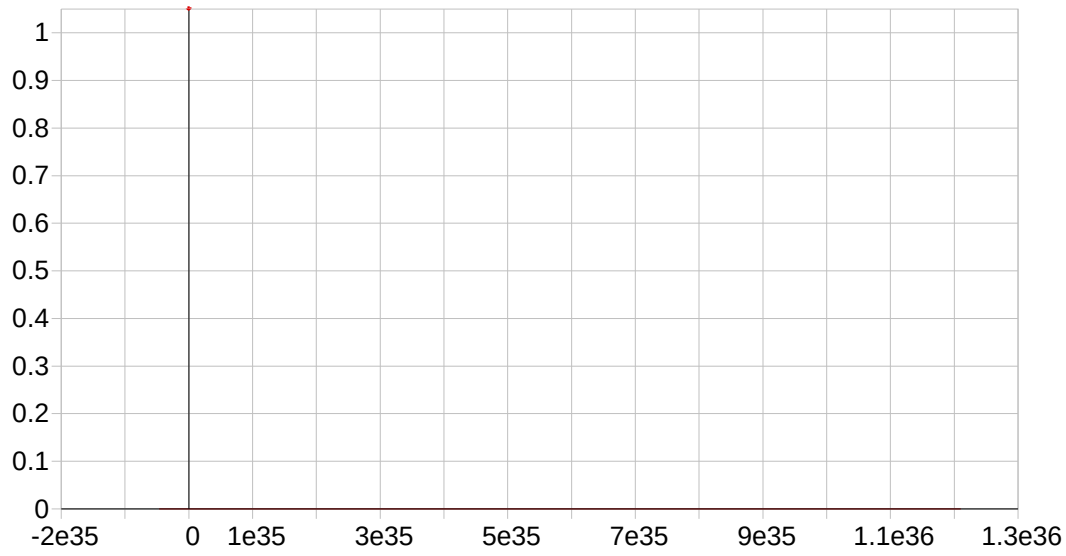


Y 224.306 {450}*

Date of Fit:	6/1/2018 12:43:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

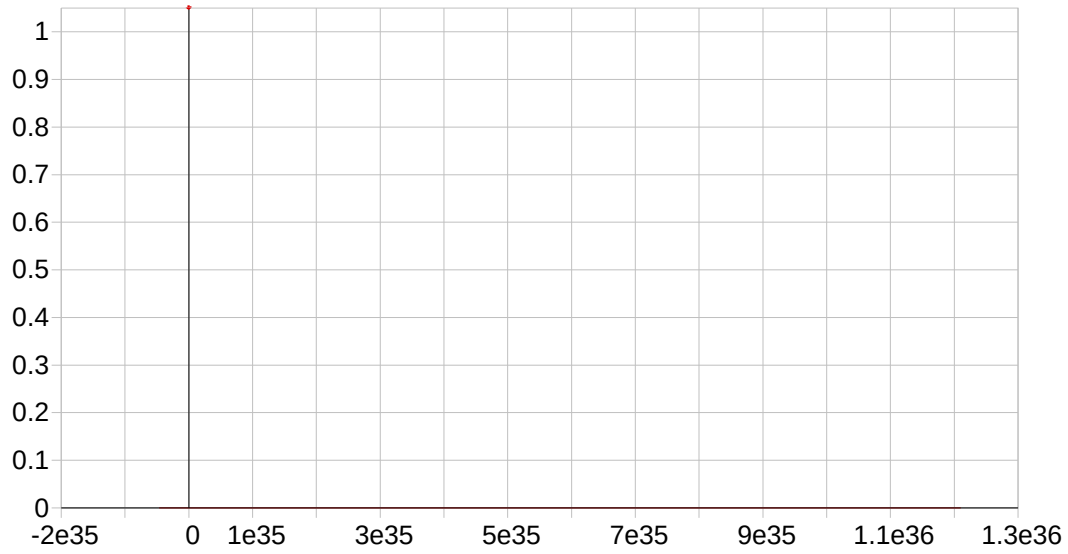


Y 360.073 { 94}*

Date of Fit:	6/1/2018 12:43:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

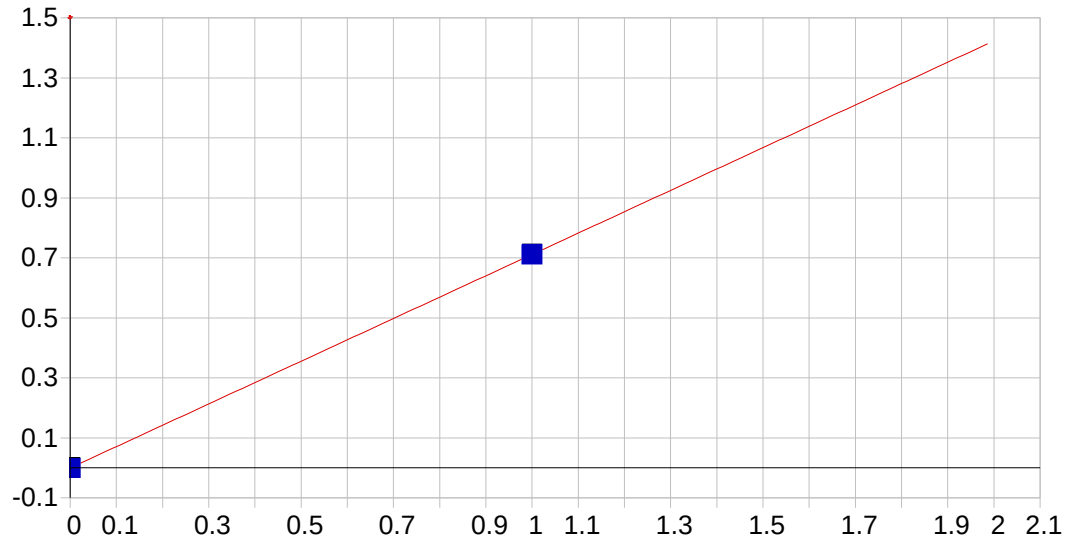


Y 371.030 { 91}*

Date of Fit:	6/1/2018 12:43:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Zn 206.200 {463}

Date of Fit:	7/13/2018 10:03:41	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000528	Re-Slope:	1.000000
A1 (Gain):	0.711854	Y-int:	0.000000

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		1.000000		Status:	OK.		
Std Error of Est:		0.000000					
Predicted MDL:		0.000469					
Predicted MQL:		0.001563					
Std. Name	**Stated Conc.**	**Found Conc.**	**Difference**	**% Diff.**	**(S)IR**	**Std Dev**	**Emphasis**
Blank	.00000	.00000	.000	.000	-.00053	.000	1
S1	1.0000	1.00000	.000	.000	.71132	.000	1

Sample Name: Blank Acquired: 7/13/2018 9:55:32 Type: Cal
Method: P8071318A Mode: IR Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00065**	**.00125**	**-.00079**	**.00434**	**.00466**	**-.00016**	**-.00307**	**.00462**
Stddev	.00012	.00009	.00009	.00003	.00159	.00017	.00013	.00012
%RSD	18.624	7.3702	11.681	.66028	34.199	109.41	4.3185	2.6648
#1	-.00074	.00132	-.00086	.00432	.00353	-.00028	-.00298	.00454
#2	-.00056	.00119	-.00073	.00436	.00579	-.00004	-.00317	.00471

Elem	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0040**	**6.642**	**-.00124**	**.00006**	**.01154**	**-.00010**	**.00281**	**.0012**
Stddev	.0002	5.064	.00027	.00006	.00009	.00000	.00082	.0005
%RSD	4.895	76.24	22.103	86.638	.80560	3.3409	29.237	44.07
#1	.0041	10.22	-.00104	.00010	.01147	-.00010	.00223	.0008
#2	.0039	3.061	-.00143	.00002	.01161	-.00010	.00340	.0015

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00016**	**.00027**	**-.00117**	**.00011**	**-.00088**	**-.00016**	**.00057**	**-.00013**
Stddev	.00008	.00006	.00009	.00150	.00025	.00031	.00013	.00047
%RSD	53.240	24.001	7.3334	1394.7	28.644	197.01	22.304	363.81
#1	.00010	.00022	-.00111	.00117	-.00070	.00006	.00048	-.00046
#2	.00022	.00031	-.00123	-.00096	-.00106	-.00038	.00066	.00020

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00383**	**.00018**	**.00053**	**.00014**	**-.00029**	**.00082**	**-.00053**
Stddev	.00016	.00005	.00014	.00018	.00007	.00027	.00037
%RSD	4.2165	26.874	26.572	125.63	22.737	32.657	70.646
#1	.00371	.00021	.00063	.00002	-.00033	.00101	-.00026
#2	.00394	.00014	.00043	.00027	-.00024	.00063	-.00079

Sample Name: Blank Acquired: 7/13/2018 9:55:32 Type: Cal
Method: P8071318A Mode: IR Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1999.4	1057.7	8868.3	6351.7
Stddev	91.6	74.8	193.3	110.0
%RSD	4.5800	7.0746	2.1794	1.7325
#1	2064.1	1110.6	9005.0	6273.9
#2	1934.6	1004.8	8731.7	6429.5

Sample Name: S1 Acquired: 7/13/2018 9:59:41 Type: Cal
Method: P8071318A Mode: IR Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	B_2089	Ba4554	Be2348	Bi2230	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.72111	.19396	1.3836	11.058	.86929	.23680	3.141	.99104
Stddev	.00398	.00040	.0021	.068	.00127	.00073	.002	.00011
%RSD	.55185	.20497	.15210	.61416	.14571	.31030	.0683	.01118
#1	.71830	.19368	1.3851	11.106	.87019	.23628	3.142	.99112
#2	.72393	.19424	1.3822	11.010	.86840	.23732	3.139	.99096

Elem	Cr2677	Cu3247	Li6707	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.36978	1.4362	6.202	.41700	1.3158	.32047	.19707	.34448
Stddev	.00032	.0095	.025	.00090	.0006	.00031	.00038	.00082
%RSD	.08784	.65804	.3999	.21574	.04512	.09822	.19332	.23920
#1	.36955	1.4295	6.219	.41764	1.3163	.32025	.19680	.34506
#2	.37001	1.4428	6.184	.41636	1.3154	.32070	.19733	.34390

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.14969	.32805	.22250	51.920	1.6514	.10309	.73173	.71132
Stddev	.00031	.00016	.00048	.392	.0037	.00020	.00300	.00032
%RSD	.20762	.04783	.21785	.75439	.22129	.19292	.41057	.04500
#1	.14991	.32816	.22216	51.643	1.6488	.10295	.72960	.71155
#2	.14947	.32794	.22284	52.197	1.6540	.10323	.73385	.71109

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1784.0	896.35	7452.0	6024.2
Stddev	2.9	.73	4.0	23.0
%RSD	.16014	.08143	.05348	.38111
#1	1786.1	896.87	7454.9	6008.0
#2	1782.0	895.83	7449.2	6040.5

Sample Name: S2 Acquired: 7/13/2018 10:03:45 Type: Cal
Method: P8071318A Mode: IR Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.3110	6.3590	.36816	13.684	.95815	59.933
Stddev	.0073	.0900	.00416	.145	.00267	.187
%RSD	.31444	1.4158	1.1308	1.0572	.27838	.31271
#1	2.3059	6.4227	.37110	13.581	.96003	59.801
#2	2.3162	6.2954	.36522	13.786	.95626	60.066

Int. Std.	Y_3710
Units	Cts/S
Avg	5745.0
Stddev	17.5
%RSD	.30502
#1	5757.4
#2	5732.6

Sample Name: CE Acquired: 7/13/2018 10:07:51 Type: Cal
Method: P8071318A Mode: IR Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ce4040
Units	Cts/S
Avg	**4112.**
Stddev	1.
%RSD	.0295
#1	4111.
#2	4113.

Sample Name: S1 Acquired: 7/13/2018 10:11:56 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment: P8071318A

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9939762	.0265865	.9991502	1.000167	.9934909	.9854839	.9950132
Stddev	.0000812	.0028392	.0067684	.003342	.0047573	.0054104	.0063684
%RSD	.0081699	10.67899	.6774199	.3341829	.4788484	.5490132	.6400354
#1	.9939187	.0245789	.9943642	.997803	.9901269	.9816581	.9905100
#2	.9940336	.0285941	1.003936	1.002530	.9968548	.9893096	.9995164
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003997	1.001293	-.024234	.9940962	.9961332	.9960709	-.008959
Stddev	.001266	.006056	.005464	.0081913	.0041912	.0005276	.038113
%RSD	31.66546	.6048366	22.54506	.8239938	.4207497	.0529649	425.4274
#1	-.003102	.997011	-.028097	.9883040	.9990968	.9964440	-.035909
#2	-.004892	1.005576	-.020371	.9998883	.9931695	.9956979	.017991
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009733	1.020276	-.023318	.9712249	1.001602	.0083292	.9964546
Stddev	.002127	.014005	.010152	.0026364	.005984	.0023717	.0059953
%RSD	21.84980	1.372662	43.53789	.2714497	.5974584	28.47446	.6016658
#1	-.011237	1.010373	-.030497	.9693607	.997371	.0100063	.9922153
#2	-.008229	1.030179	-.016140	.9730891	1.005833	.0066522	1.000694
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
Value							
Range							

Sample Name: S1 Acquired: 7/13/2018 10:11:56 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment: P8071318A

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9963600	.9945896	.9911651	.9993194	.9861084	.9888134	.9913172
Stddev	.0037223	.0037646	.0057387	.0067032	.0082459	.0065391	.0015197
%RSD	.3735911	.3785079	.5789896	.6707789	.8362037	.6613072	.1533037
#1	.9937279	.9919276	.9871072	.9945795	.9802777	.9841896	.9923918
#2	.9989920	.9972516	.9952230	1.004059	.9919391	.9934373	.9902426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.9941610	.9885532	.9969670
Stddev	.0070335	.0016390	.0124877
%RSD	.7074819	.1658018	1.252567
#1	.9891876	.9897121	.9881369
#2	.9991344	.9873942	1.005797
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1786.393	892.8113	7484.550	6071.352
Stddev	8.580	2.7613	2.783	17.121
%RSD	.4803043	.3092810	.0371897	.2819888
#1	1792.460	894.7638	7482.582	6083.458
#2	1780.326	890.8587	7486.519	6059.246

Sample Name: S2 Acquired: 7/13/2018 10:15:51 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000871	99.63112	.0017404	.0031077	.0000056	.0008021	-.000986
Stddev	.0003373	.22036	.0015756	.0003517	.0000625	.0001510	.002303
%RSD	387.5024	.2211788	90.53345	11.31570	1117.585	18.82706	233.5409
#1	-.000151	99.47530	.0006262	.0033564	.0000498	.0006953	-.002615
#2	.000326	99.78694	.0028545	.0028590	-.000039	.0009088	.000642
Check ?	None	Chk Pass	None	None	None	None	None
Value							
Range							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.14301	.0001715	-.004023	-.000540	.0013394	.0010393	99.43457
Stddev	.17901	.0002165	.005557	.000379	.0005654	.0001708	.14172
%RSD	.1805600	126.2906	138.1128	70.21652	42.21233	16.43320	.1425285
#1	99.01643	.0003246	-.007953	-.000808	.0009396	.0009185	99.33436
#2	99.26959	.0000183	-.000094	-.000272	.0017392	.0011601	99.53478
Check ?	Chk Pass	None	None	None	None	None	Chk Pass
Value							
Range							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.96046	.0006092	99.50115	-.000502	.0012288	98.41574	-.001295
Stddev	.42598	.0000306	.54532	.000285	.0004225	.46252	.001114
%RSD	.4261499	5.020051	.5480534	56.70542	34.38331	.4699606	86.01127
#1	99.65924	.0005876	99.11555	-.000301	.0009301	98.74279	-.002083
#2	100.2617	.0006308	99.88675	-.000703	.0015276	98.08869	-.000507
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	None
Value							
Range							

Sample Name: S2 Acquired: 7/13/2018 10:15:51 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000434	-.001344	-.000546	.0020596	.0036442	.0000755	.0040468
Stddev	.002232	.002131	.002023	.0011289	.0019648	.0000050	.0000201
%RSD	514.3099	158.5250	370.8645	54.80970	53.91615	6.614466	.4973349
#1	-.002013	.000163	-.001976	.0012614	.0022549	.0000791	.0040326
#2	.001144	-.002851	.000885	.0028578	.0050336	.0000720	.0040611
Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.003064	.0001100	-.000441
Stddev	.002789	.0002787	.000327
%RSD	91.02157	253.2487	74.15232
#1	-.005037	-.000087	-.000672
#2	-.001092	.000307	-.000210
Check ?	None	None	None
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1476.993	877.7576	6821.777	5797.161
Stddev	57.093	43.5883	10.277	26.509
%RSD	3.865480	4.965866	.1506460	.4572718
#1	1436.622	846.9360	6814.511	5815.905
#2	1517.364	908.5791	6829.044	5778.416

Sample Name: ICV Acquired: 7/13/2018 10:19:55 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3824187**	**40.60329**	**.3982690**	**.3960062**	**.3906691**	**.3977057**	**.3978178**
Stddev	.0013933	.14321	.0016296	.0009076	.0016963	.0019364	.0002084
%RSD	.3643435	.3526931	.4091691	.2291831	.4342134	.4868978	.0523855
#1	.3834039	40.70455	.3971167	.3953644	.3918686	.3963364	.3979652
#2	.3814334	40.50203	.3994213	.3966479	.3894696	.3990749	.3976705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.22587**	**.3930260**	**-.022156**	**.4070984**	**.3861274**	**.3960002**	**20.40646**
Stddev	.24837	.0015836	.008843	.0009107	.0008063	.0021673	.18518
%RSD	1.227995	.4029191	39.90957	.2236979	.2088154	.5472920	.9074778
#1	20.05024	.3919062	-.015904	.4064544	.3866976	.3944677	20.27552
#2	20.40149	.3941458	-.028409	.4077423	.3855573	.3975327	20.53741
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.83340**	**3.513978**	**20.07322**	**3.824281**	**.3810066**	**20.52651**	**.4028798**
Stddev	.51495	.055948	.11077	.038481	.0017275	.22948	.0013932
%RSD	1.261090	1.592149	.5518342	1.006236	.4533959	1.117952	.3458205
#1	41.19752	3.553539	19.99489	3.797070	.3797851	20.68877	.4018946
#2	40.46928	3.474417	20.15154	3.851491	.3822281	20.36424	.4038649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICV Acquired: 7/13/2018 10:19:55 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4005681	.3850788	.3849779	.4031692	.4083955	.3890461	.3891982
Stddev	.0018506	.0026188	.0024267	.0003535	.0028859	.0008484	.0005585
%RSD	.4619873	.6800803	.6303377	.0876752	.7066476	.2180636	.1434958
#1	.3992596	.3832270	.3832620	.4029192	.4104361	.3884462	.3895931
#2	.4018767	.3869306	.3866938	.4034191	.4063548	.3896460	.3888033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.3796370	3.814503	.4239019
Stddev	.0020397	.002861	.0000167
%RSD	.5372733	.0750090	.0039426
#1	.3810792	3.812480	.4238901
#2	.3781947	3.816526	.4239137
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1592.821	877.3773	7178.174	5966.663
Stddev	6.252	4.8205	20.389	27.119
%RSD	.3925363	.5494244	.2840435	.4545050
#1	1597.242	880.7860	7192.592	5947.487
#2	1588.400	873.9687	7163.757	5985.839

Sample Name: ICB Acquired: 7/13/2018 10:23:44 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006036**	**.0320618**	**.0002488**	**.0030585**	**-.000132**	**.0000865**	**-.001828**
Stddev	.0003412	.0041748	.0007680	.0000681	.000042	.0000060	.000520
%RSD	56.52461	13.02101	308.6243	2.226274	31.97825	6.972842	28.41581
#1	.0008448	.0291098	.0007919	.0031066	-.000161	.0000908	-.001461
#2	.0003623	.0350138	-.000294	.0030103	-.000102	.0000823	-.002196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.010239**	**.0003024**	**-.017193**	**-.000245**	**.0000899**	**.0014563**	**.0195534**
Stddev	.003926	.0001157	.004809	.000133	.0000558	.0002331	.0232215
%RSD	38.34902	38.25622	27.96954	54.05286	62.03986	16.00906	118.7593
#1	-.013015	.0002206	-.013792	-.000339	.0001293	.0016212	.0031333
#2	-.007462	.0003841	-.020593	-.000152	.0000504	.0012915	.0359735
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.017260**	**.0005837**	**-.005948**	**.0001748**	**-.000075**	**.0061363**	**.0005028**
Stddev	.011044	.0000610	.007126	.0003070	.000160	.0010120	.0001010
%RSD	63.98430	10.45830	119.7926	175.6529	214.0980	16.49218	20.07920
#1	-.025069	.0006268	-.000910	-.000042	.000038	.0068520	.0004314
#2	-.009451	.0005405	-.010987	.000392	-.000188	.0054208	.0005742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICB Acquired: 7/13/2018 10:23:44 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000081	-.000382	.0040955	.0018694	.0005421	.0000261	.0002636
Stddev	.000567	.000324	.0015469	.0011810	.0000961	.0000025	.0001918
%RSD	702.0644	84.66800	37.77054	63.17317	17.72321	9.413751	72.74587
#1	-.000482	-.000611	.0051893	.0010343	.0006100	.0000278	.0001280
#2	.000320	-.000153	.0030017	.0027045	.0004742	.0000244	.0003992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001133	-.000145	.0000075
Stddev	.000654	.000393	.0000764
%RSD	57.73811	270.6761	1023.031
#1	-.001595	-.000423	.0000615
#2	-.000670	.000133	-.000047
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1834.608	908.0898	7497.279	6110.063
Stddev	5.656	3.2587	.534	23.722
%RSD	.3082992	.3588494	.0071234	.3882513
#1	1830.609	905.7856	7497.657	6126.837
#2	1838.608	910.3940	7496.902	6093.288

Sample Name: ICVL Acquired: 7/13/2018 10:27:46 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050364	.2107579	.0081695	.0522313	.0098653	.0038512
Stddev	.0003130	.0021623	.0002335	.0001081	.0000774	.0000459
%RSD	6.214166	1.025983	2.858633	.2069722	.7843237	1.192460
#1	.0052577	.2092288	.0083346	.0523077	.0099200	.0038188
#2	.0048151	.2122869	.0080043	.0521549	.0098106	.0038837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0479855	.1870723	.0021559	-.017695	.0050319	.0099081
Stddev	.0000592	.0066168	.0002535	.008990	.0002661	.0005952
%RSD	.1234157	3.537038	11.75792	50.80643	5.287841	6.006816
#1	.0480274	.1917511	.0019766	-.011338	.0048438	.0103290
#2	.0479437	.1823935	.0023351	-.024052	.0052200	.0094873
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115804	.2030091	.4987791	.0108839	.0797336	.0090861
Stddev	.0001239	.0146435	.0053666	.0000314	.0077725	.0001847
%RSD	1.070283	7.213221	1.075938	.2880050	9.748081	2.032935
#1	.0116680	.2133636	.4949844	.0109061	.0742376	.0092167
#2	.0114927	.1926546	.5025738	.0108617	.0852295	.0089555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICVL Acquired: 7/13/2018 10:27:46 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098166	1.036782	.0106983	F .0068689	.0182108	.0116984
Stddev	.0003676	.001290	.0002901	.0000377	.0022843	.0038966
%RSD	3.744833	.1243783	2.711582	.5489614	12.54384	33.30904
#1	.0100766	1.037694	.0104932	.0068422	.0165955	.0144537
#2	.0095567	1.035870	.0109035	.0068956	.0198261	.0089430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.0050000		
Range				30.00000%		

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1959581	.0408734	.0051395	.0050328	.0092533	.0050744
Stddev	.0024542	.0018859	.0000055	.0000911	.0009465	.0003586
%RSD	1.252435	4.613997	.1072296	1.810859	10.22847	7.065850
#1	.1942227	.0395399	.0051356	.0049684	.0085840	.0053279
#2	.1976935	.0422069	.0051434	.0050973	.0099226	.0048208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0198242
Stddev	.0003798
%RSD	1.915925
#1	.0200927
#2	.0195556
Check ?	Chk Pass
Value	
Range	

Sample Name: ICVL Acquired: 7/13/2018 10:27:46 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1832.990	913.4058	7595.869	6125.112
Stddev	8.952	9.9924	15.053	14.408
%RSD	.4883766	1.093973	.1981709	.2352269
#1	1839.320	920.4715	7606.513	6135.300
#2	1826.660	906.3400	7585.225	6114.924

Sample Name: CRI Acquired: 7/13/2018 10:31:46 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0112016**	**.4218031**	**.0209570**	**.1047872**	**.0198963**	**.0081585**	**.1003449**
Stddev	.0007611	.0114936	.0005033	.0001555	.0005050	.0000856	.0024276
%RSD	6.794219	2.724862	2.401422	.1483464	2.537943	1.049847	2.419252
#1	.0106634	.4136759	.0206011	.1048971	.0195393	.0080980	.1020615
#2	.0117397	.4299302	.0213128	.1046772	.0202534	.0082191	.0986283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3789056**	**.0042738**	**-.025190**	**.0098066**	**.0203352**	**.0222867**	**.4243762**
Stddev	.0058369	.0002051	.006427	.0003570	.0003815	.0003120	.0192417
%RSD	1.540475	4.799498	25.51480	3.640812	1.875994	1.400088	4.534117
#1	.3747782	.0041287	-.029735	.0100591	.0200655	.0225073	.4379822
#2	.3830329	.0044188	-.020646	.0095542	.0206050	.0220661	.4107703
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.009688**	**.0211625**	**.1836234**	**.0191484**	**.0202077**	**2.062186**	**.0203361**
Stddev	.014376	.0006558	.0122913	.0001789	.0000343	.039165	.0015217
%RSD	1.423833	3.098948	6.693773	.9343644	.1695907	1.899209	7.482969
#1	.999523	.0206987	.1749322	.0190219	.0201835	2.034492	.0214121
#2	1.019854	.0216262	.1923147	.0192749	.0202319	2.089880	.0192600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CRI Acquired: 7/13/2018 10:31:46 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092845	.0401831	.0232914	.3964516	.0808493	.0104585	.0102181
Stddev	.0010470	.0003673	.0023301	.0037804	.0028799	.0000008	.0000809
%RSD	11.27679	.9139556	10.00423	.9535487	3.562080	.0074868	.7916999
#1	.0100248	.0399234	.0216438	.3937785	.0788129	.0104579	.0102753
#2	.0085442	.0404428	.0249391	.3991247	.0828857	.0104590	.0101609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0197420	.0092674	.0399433
Stddev	.0014917	.0001921	.0008166
%RSD	7.555938	2.072969	2.044404
#1	.0186872	.0094033	.0393659
#2	.0207968	.0091316	.0405207
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1771.430	882.3388	7359.640	6050.583
Stddev	9.370	4.6170	10.078	90.795
%RSD	.5289327	.5232675	.1369365	1.500598
#1	1778.056	885.6035	7366.766	6114.785
#2	1764.805	879.0741	7352.514	5986.381

Sample Name: ICSA Acquired: 7/13/2018 10:35:48 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000591**	**529.8830**	**-.001423**	**.0020790**	**-.000053**	**.0012142**	**-.000870**
Stddev	.000009	.1478	.006776	.0004856	.000042	.0001531	.000771
%RSD	1.594391	.0278869	476.0461	23.35530	78.24467	12.60694	88.60894
#1	-.000584	529.7786	-.006215	.0017357	-.000083	.0011059	-.000325
#2	-.000598	529.9875	.003368	.0024224	-.000024	.0013224	-.001416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**493.5722**	**.0004232**	**.0085154**	**-.001369**	**.0033542**	**-.000782**	**195.7818**
Stddev	1.5329	.0002753	.0072712	.000662	.0002143	.000100	.6596
%RSD	.3105709	65.05958	85.38844	48.38392	6.389697	12.75761	.3369204
#1	492.4882	.0006179	.0136569	-.000901	.0032026	-.000853	195.3154
#2	494.6561	.0002285	.0033739	-.001838	.0035057	-.000712	196.2482
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.036643**	**.0015559**	**507.7301**	**-.001056**	**.0048343**	**.0189360**	**-.003758**
Stddev	.008975	.0001856	1.3543	.000534	.0006728	.0003075	.000304
%RSD	24.49351	11.92668	.2667322	50.62497	13.91673	1.623706	8.094245
#1	-.042990	.0014246	506.7725	-.000678	.0053100	.0187186	-.003543
#2	-.030297	.0016871	508.6877	-.001434	.0043586	.0191534	-.003973
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA Acquired: 7/13/2018 10:35:48 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000779	.0027458	.0036957	-.001380	.0131354	-.000586	.0017461
Stddev	.000643	.0021658	.0048803	.003304	.0016488	.000061	.0002477
%RSD	82.55180	78.87668	132.0522	239.3910	12.55223	10.45729	14.18485
#1	-.001234	.0042773	.0002448	-.003716	.0143013	-.000543	.0019212
#2	-.000324	.0012144	.0071466	.000956	.0119695	-.000629	.0015710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.004144	-.000429	-.000611
Stddev	.000620	.000134	.001858
%RSD	14.96624	31.21739	304.2583
#1	-.003706	-.000334	.000703
#2	-.004583	-.000523	-.001925
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1239.253	768.6937	6266.479	5373.274
Stddev	1.403	.9491	18.703	8.626
%RSD	.1132383	.1234702	.2984531	.1605263
#1	1238.260	769.3648	6253.254	5367.175
#2	1240.245	768.0225	6279.704	5379.373

Sample Name: ICSAB Acquired: 7/13/2018 10:39:47 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2153063	532.0462	.0989373	.0008047	.5041976	.5375719	-.000472
Stddev	.0004498	2.1750	.0007353	.0004976	.0015671	.0010783	.000601
%RSD	.2088903	.4087945	.7432281	61.83836	.3108070	.2005942	127.2885
#1	.2149883	530.5083	.0994572	.0004528	.5030896	.5383344	-.000897
#2	.2156243	533.5842	.0984173	.0011566	.5053057	.5368094	-.000047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	494.8124	1.042206	-.006586	.5150361	.4546762	.5519760	196.6957
Stddev	.4585	.000268	.001755	.0023878	.0014558	.0014925	.2901
%RSD	.0926532	.0257132	26.64046	.4636204	.3201748	.2703911	.1474742
#1	495.1366	1.042016	-.005345	.5133477	.4536468	.5509206	196.4905
#2	494.4882	1.042395	-.007827	.5167245	.4557056	.5530313	196.9008
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.044339	.0013998	509.1767	.4762841	.0044930	.0118307	.9959434
Stddev	.012875	.0003019	.6998	.0015516	.0004865	.0007507	.0036963
%RSD	29.03677	21.56682	.1374308	.3257784	10.82922	6.345004	.3711362
#1	-.035235	.0011863	508.6819	.4773813	.0041489	.0112999	.9933297
#2	-.053442	.0016132	509.6715	.4751870	.0048370	.0123614	.9985570
Check ?	None	None	Chk Pass	Chk Pass	None	None	Chk Pass
Value							
Range							

Sample Name: ICSAB Acquired: 7/13/2018 10:39:47 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0496741	.6021623	.0528396	-.001983	.0131614	-.000551	.0011859
Stddev	.0073130	.0030653	.0015786	.001419	.0019595	.000030	.0000524
%RSD	14.72206	.5090543	2.987439	71.54715	14.88851	5.478213	4.420372
#1	.0445030	.6043298	.0517234	-.000980	.0117758	-.000572	.0011489
#2	.0548452	.5999948	.0539558	-.002986	.0145470	-.000530	.0012230
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	None	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0849734	.4649418	1.033346
Stddev	.0010373	.0017903	.007184
%RSD	1.220745	.3850539	.6952283
#1	.0857068	.4662077	1.028266
#2	.0842399	.4636758	1.038426
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1240.110	767.2974	6310.109	5367.331
Stddev	3.587	1.1019	29.879	16.927
%RSD	.2892640	.1436027	.4735071	.3153720
#1	1242.646	768.0766	6331.236	5379.300
#2	1237.573	766.5183	6288.981	5355.362

Sample Name: CCV Acquired: 7/13/2018 10:43:40 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4838144	50.88238	.5056370	.5028643	.4947786	.5049407	.5160406
Stddev	.0012241	.03475	.0008123	.0017510	.0005012	.0020608	.0030198
%RSD	.2530000	.0682915	.1606427	.3482108	.1013026	.4081366	.5851795
#1	.4829488	50.90695	.5062114	.5016261	.4951330	.5063979	.5181759
#2	.4846799	50.85781	.5050627	.5041025	.4944242	.5034835	.5139053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.41108	.5007733	-.028322	.5186095	.4831998	.5036783	25.73898
Stddev	.13733	.0007975	.001600	.0027324	.0003301	.0031435	.13493
%RSD	.5404288	.1592621	5.650366	.5268717	.0683124	.6241043	.5242179
#1	25.50818	.5002094	-.027191	.5166774	.4829664	.5014555	25.83439
#2	25.31397	.5013372	-.029454	.5205416	.4834332	.5059011	25.64357
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.11369	4.003154	25.05330	4.846662	.4808903	25.32273	.5136352
Stddev	.11247	.007978	.08995	.016665	.0005871	.05310	.0005027
%RSD	.2200461	.1993023	.3590519	.3438355	.1220940	.2096755	.0978712
#1	51.03416	3.997513	25.11690	4.858445	.4813055	25.28519	.5139907
#2	51.19322	4.008796	24.98969	4.834878	.4804752	25.36028	.5132798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 7/13/2018 10:43:40 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5083753	.4885771	.4913154	.5075087	.5207297	.4914298	.4896071
Stddev	.0008320	.0036726	.0000934	.0024314	.0007095	.0015636	.0006422
%RSD	.1636514	.7516876	.0190184	.4790819	.1362439	.3181800	.1311657
#1	.5077870	.4859802	.4912493	.5057895	.5212314	.4903241	.4891530
#2	.5089636	.4911740	.4913814	.5092280	.5202280	.4925354	.4900612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.4842879	4.814617	.5325978
Stddev	.0046062	.008793	.0009230
%RSD	.9511375	.1826212	.1733048
#1	.4810308	4.808400	.5319452
#2	.4875450	4.820834	.5332505
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1546.834	861.4522	7075.994	5907.195
Stddev	2.792	1.5597	30.177	5.845
%RSD	.1805192	.1810556	.4264661	.0989458
#1	1548.809	862.5551	7097.332	5903.062
#2	1544.860	860.3493	7054.655	5911.328

Sample Name: CCB Acquired: 7/13/2018 10:47:32 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003655	.0316503	.0003631	.0014171	-.000133	.0002496	.0007371
Stddev	.0000498	.0075791	.0009344	.0002733	.000036	.0000919	.0005171
%RSD	13.62550	23.94644	257.3466	19.28612	26.97127	36.83355	70.15453
#1	.0003302	.0370096	-.000298	.0012239	-.000108	.0001846	.0003714
#2	.0004007	.0262911	.001024	.0016104	-.000159	.0003146	.0011027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005426	.0001406	-.019254	-.000235	.0004384	.0013844	.0172180
Stddev	.000978	.0000299	.000824	.000078	.0007391	.0003150	.0033519
%RSD	18.02567	21.27407	4.279229	33.25136	168.5975	22.75138	19.46729
#1	-.006117	.0001618	-.018671	-.000180	.0009610	.0011617	.0148479
#2	-.004734	.0001195	-.019837	-.000290	-.000084	.0016071	.0195881
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.014016	.0002188	-.020840	-.000063	.0003143	.0022610	.0004084
Stddev	.006958	.0001057	.012337	.000192	.0000904	.0009009	.0001785
%RSD	49.64546	48.30515	59.19863	303.6217	28.75919	39.84558	43.69586
#1	-.009096	.0001441	-.012117	-.000199	.0002504	.0028980	.0005346
#2	-.018936	.0002935	-.029564	.000072	.0003782	.0016240	.0002822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/13/2018 10:47:32 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007590	-.000274	.0041311	.0001946	-.000180	.0000212	.0000816
Stddev	.0004461	.001695	.0026588	.0005090	.000672	.0000052	.0000901
%RSD	58.77518	618.0482	64.36068	261.5655	374.5741	24.67666	110.4088
#1	.0004435	.000924	.0060111	-.000165	.000296	.0000249	.0000179
#2	.0010744	-.001473	.0022510	.000555	-.000655	.0000175	.0001454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002587	-.000277	-.000154
Stddev	.000144	.000401	.000867
%RSD	5.560027	144.5807	561.4161
#1	-.002688	-.000560	.000459
#2	-.002485	.000006	-.000768
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1825.044	904.2267	7456.241	6046.913
Stddev	2.357	6.3652	25.566	27.106
%RSD	.1291312	.7039425	.3428762	.4482645
#1	1826.710	908.7276	7438.163	6027.747
#2	1823.378	899.7258	7474.318	6066.080

Sample Name: MRL Acquired: 7/13/2018 10:51:36 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051060	.2172473	.0086291	.0525019	.0100073	.0040770
Stddev	.0000668	.0010217	.0000043	.0005436	.0000557	.0002143
%RSD	1.308488	.4703057	.0500384	1.035440	.5563087	5.255827
#1	.0050588	.2179698	.0086322	.0521175	.0099679	.0039255
#2	.0051533	.2165248	.0086261	.0528863	.0100467	.0042285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0483259	.1884657	.0021012	-.014258	.0050932	.0099434
Stddev	.0001287	.0006149	.0001688	.004033	.0002648	.0002277
%RSD	.2663706	.3262914	8.031572	28.28936	5.198579	2.289637
#1	.0484169	.1889005	.0022205	-.017110	.0052804	.0101044
#2	.0482349	.1880309	.0019818	-.011406	.0049059	.0097824
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121245	.2216082	.5116686	.0108190	.0832091	.0095946
Stddev	.0002494	.0124451	.0022122	.0001255	.0190720	.0000672
%RSD	2.057326	5.615793	.4323446	1.159763	22.92059	.7005256
#1	.0119481	.2128082	.5101044	.0109078	.0697232	.0096422
#2	.0123009	.2304082	.5132329	.0107303	.0966951	.0095471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: MRL Acquired: 7/13/2018 10:51:36 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097725	1.039305	.0098410	.0038130	.0190204	F .0154044
Stddev	.0004356	.006473	.0003373	.0006025	.0000929	.0005281
%RSD	4.457764	.6227742	3.427624	15.80105	.4885427	3.428397
#1	.0100805	1.043881	.0100795	.0033870	.0189547	.0150310
#2	.0094644	1.034728	.0096025	.0042391	.0190861	.0157779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						.0100000
Range						30.00000%

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1987414	.0400454	.0052843	.0051685	.0091071	.0047941
Stddev	.0003206	.0002589	.0000147	.0000229	.0017406	.0006908
%RSD	.1612985	.6466183	.2791735	.4427354	19.11241	14.40893
#1	.1985147	.0402285	.0052947	.0051524	.0078763	.0043057
#2	.1989681	.0398623	.0052739	.0051847	.0103378	.0052826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0203693
Stddev	.0001279
%RSD	.6279269
#1	.0204597
#2	.0202788
Check ?	Chk Pass
Value	
Range	

Sample Name: MRL Acquired: 7/13/2018 10:51:36 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1800.674	895.8975	7436.926	6086.324
Stddev	12.176	6.0353	12.674	24.410
%RSD	.6762075	.6736594	.1704148	.4010552
#1	1809.284	900.1651	7427.964	6069.063
#2	1792.064	891.6299	7445.887	6103.584

Sample Name: MRL Acquired: 7/13/2018 10:57:01 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052773	.2169066	.0090075	.0524929	.0100576	.0043563
Stddev	.0006205	.0137334	.0028887	.0004371	.0000449	.0000568
%RSD	11.75790	6.331501	32.06950	.8327182	.4465240	1.304223
#1	.0057160	.2071956	.0110501	.0521838	.0100259	.0043161
#2	.0048385	.2266176	.0069649	.0528019	.0100894	.0043964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0493532	.1882365	.0022853	-.013450	.0048332	.0101240
Stddev	.0006105	.0019854	.0000990	.003691	.0000876	.0002710
%RSD	1.237084	1.054725	4.332922	27.43838	1.812813	2.676980
#1	.0489215	.1896404	.0022153	-.010841	.0047713	.0103156
#2	.0497849	.1868326	.0023553	-.016060	.0048952	.0099323
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0120688	.2021822	.5042763	.0108489	.0838887	.0095663
Stddev	.0000226	.0240367	.0001911	.0000705	.0009824	.0000392
%RSD	.1872941	11.88861	.0378960	.6495547	1.171042	.4092091
#1	.0120848	.1851857	.5044114	.0107991	.0845834	.0095387
#2	.0120529	.2191787	.5041412	.0108987	.0831941	.0095940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: MRL Acquired: 7/13/2018 10:57:01 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101607	1.046816	.0101652	.0048657	.0194627	F .0131657
Stddev	.0005172	.009571	.0003653	.0011126	.0003478	.0001944
%RSD	5.090372	.9142728	3.594027	22.86544	1.787064	1.476525
#1	.0097949	1.053584	.0104235	.0056524	.0197086	.0130282
#2	.0105264	1.040049	.0099068	.0040790	.0192168	.0133031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						.0100000
Range						30.00000%

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1998672	.0393534	.0052557	.0051012	.0096435	.0047469
Stddev	.0002679	.0003357	.0000326	.0002484	.0021326	.0000766
%RSD	.1340663	.8531119	.6205052	4.869333	22.11382	1.613102
#1	.1996777	.0395908	.0052327	.0049255	.0111514	.0048010
#2	.2000567	.0391160	.0052788	.0052768	.0081356	.0046927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0201316
Stddev	.0002537
%RSD	1.260297
#1	.0199522
#2	.0203110
Check ?	Chk Pass
Value	
Range	

Sample Name: MRL Acquired: 7/13/2018 10:57:01 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1791.011	888.6243	7424.197	6034.305
Stddev	1.825	.0214	44.043	7.324
%RSD	.1018787	.0024110	.5932421	.1213758
#1	1792.301	888.6394	7455.340	6039.484
#2	1789.721	888.6091	7393.053	6029.126

Sample Name: lcs 500-440600/2-a Acquired: 7/13/2018 11:03:25 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0409933	1.902066	.0885748	.8397206	1.887757	.0449143	.4474777
Stddev	.0002396	.010832	.0009642	.0031091	.007837	.0001344	.0003457
%RSD	.5844171	.5694881	1.088590	.3702532	.4151503	.2993489	.0772524
#1	.0408239	1.909725	.0892566	.8375221	1.893298	.0450094	.4472333
#2	.0411627	1.894406	.0878930	.8419191	1.882215	.0448193	.4477221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.834677	.0456327	-.025219	.4596209	.1819486	.2382552	.9903706
Stddev	.006067	.0000644	.002001	.0005186	.0014792	.0001914	.0072827
%RSD	.0686694	.1411555	7.932919	.1128226	.8129678	.0803528	.7353491
#1	8.830387	.0455871	-.023804	.4599876	.1829946	.2383906	.9852210
#2	8.838967	.0456782	-.026633	.4592542	.1809027	.2381198	.9955202
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.977896	.5049794	8.945378	.4456628	.9324652	10.13297	.4543101
Stddev	.001424	.0026225	.045930	.0000684	.0001581	.03174	.0016794
%RSD	.0142685	.5193358	.5134481	.0153494	.0169547	.3132684	.3696664
#1	9.976889	.5068338	8.977855	.4457112	.9323534	10.15542	.4531225
#2	9.978902	.5031249	8.912901	.4456144	.9325770	10.11052	.4554976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-440600/2-a Acquired: 7/13/2018 11:03:25 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0888735	.4569340	.0906954	4.468865	.9009767	.9258710	.9433439
Stddev	.0018569	.0024318	.0006387	.003117	.0009051	.0008373	.0000196
%RSD	2.089321	.5322004	.7041664	.0697585	.1004553	.0904296	.0020791
#1	.0875605	.4586535	.0911470	4.466661	.9016167	.9252790	.9433300
#2	.0901865	.4552144	.0902438	4.471070	.9003367	.9264630	.9433577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0822650	.4561008	.4493375
Stddev	.0004611	.0004955	.0014473
%RSD	.5605503	.1086389	.3221044
#1	.0819389	.4557504	.4483141
#2	.0825910	.4564511	.4503609
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1664.167	857.7967	7144.052	5877.570
Stddev	3.085	.5935	29.540	25.744
%RSD	.1853862	.0691843	.4134900	.4380050
#1	1666.349	858.2163	7123.164	5859.366
#2	1661.986	857.3770	7164.940	5895.774

Sample Name: CCV Acquired: 7/13/2018 11:07:26 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4903521**	**49.37978**	**.5047247**	**.4914346**	**.4879181**	**.5022055**
Stddev	.0012618	.13483	.0041520	.0037209	.0007866	.0000586
%RSD	.2573167	.2730370	.8226331	.7571457	.1612268	.0116631
#1	.4894599	49.28445	.5017888	.4888036	.4873619	.5022469
#2	.4912444	49.47512	.5076606	.4940657	.4884744	.5021640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4641301**	**24.65367**	**.4954745**	**-.021218**	**.5159669**	**.4760022**
Stddev	.0007432	.05122	.0016564	.002571	.0019215	.0004199
%RSD	.1601380	.2077548	.3343046	12.11533	.3724027	.0882140
#1	.4636046	24.68989	.4943032	-.023035	.5173256	.4757053
#2	.4646557	24.61746	.4966457	-.019400	.5146082	.4762991
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4972764**	**25.28068**	**50.10003**	**3.964352**	**24.43633**	**4.703281**
Stddev	.0020752	.16639	.28370	.033930	.06666	.003696
%RSD	.4173133	.6581606	.5662683	.8558874	.2728071	.0785869
#1	.4987438	25.16303	49.89943	3.940360	24.38919	4.705894
#2	.4958090	25.39833	50.30064	3.988345	24.48347	4.700667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 7/13/2018 11:07:26 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4869823	24.77724	.5094472	.5055609	.4831937	.4849767
Stddev	.0025586	.19576	.0019438	.0024902	.0053750	.0080005
%RSD	.5253934	.7900991	.3815452	.4925715	1.112396	1.649660
#1	.4851731	24.63882	.5108217	.5038000	.4793930	.4793195
#2	.4887915	24.91567	.5080727	.5073218	.4869944	.4906339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4238714	.5105161	.4834089	.4847697	.4806661	4.771853
Stddev	.0035694	.0014043	.0011782	.0002821	.0017660	.001965
%RSD	.8420859	.2750694	.2437300	.0581948	.3674120	.0411735
#1	.4213475	.5115091	.4842420	.4849692	.4794174	4.773242
#2	.4263953	.5095231	.4825758	.4845702	.4819149	4.770464
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.5000000					
Range	-10.0000%					

Elem	Zn2062
Units	ppm
Avg	.5274200
Stddev	.0030245
%RSD	.5734470
#1	.5295586
#2	.5252814
Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 7/13/2018 11:07:26 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1559.860	866.8363	7107.853	5965.484
Stddev	11.830	11.2865	50.936	12.084
%RSD	.7583964	1.302029	.7166099	.2025685
#1	1568.226	874.8171	7071.837	5974.029
#2	1551.496	858.8556	7143.870	5956.940

Sample Name: CCB Acquired: 7/13/2018 11:11:17 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004294	.0240307	.0011605	.0025788	-.000176	.0001373	-.001172
Stddev	.0000678	.0113954	.0017964	.0000394	.000093	.0003011	.000140
%RSD	15.79134	47.42029	154.7972	1.529436	52.66239	219.2796	11.96123
#1	.0004774	.0320884	.0024307	.0025509	-.000241	-.000076	-.001073
#2	.0003815	.0159729	-.000110	.0026067	-.000110	.000350	-.001271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008540	.0000790	-.014329	-.000118	.0008223	.0017260	-.024691
Stddev	.003720	.0000449	.001587	.000097	.0011052	.0002673	.012662
%RSD	43.55712	56.85035	11.07599	81.81504	134.4022	15.48885	51.28117
#1	-.005910	.0001108	-.013207	-.000050	.0000408	.0019150	-.015738
#2	-.011171	.0000473	-.015451	-.000187	.0016037	.0015370	-.033645
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.010796	.0004322	.0009187	.0001631	-.000071	.0050580	.0004180
Stddev	.012888	.0001742	.0018201	.0000648	.000005	.0001043	.0003692
%RSD	119.3837	40.29278	198.1197	39.75276	6.869274	2.061201	88.31395
#1	-.001682	.0003091	-.000368	.0001173	-.000075	.0051317	.0006790
#2	-.019909	.0005554	.002206	.0002089	-.000068	.0049843	.0001570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/13/2018 11:11:17 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000809	-.000844	.0048321	.0022568	-.000880	.0000382	.0001005
Stddev	.002452	.000130	.0010409	.0000576	.000053	.0000005	.0000550
%RSD	303.1219	15.38977	21.54233	2.550638	6.074649	1.382720	54.75060
#1	-.002543	-.000936	.0055681	.0022976	-.000842	.0000378	.0001394
#2	.000925	-.000752	.0040960	.0022162	-.000917	.0000386	.0000616
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000367	-.000212	.0003347
Stddev	.000402	.000559	.0000365
%RSD	109.4677	264.0058	10.91200
#1	-.000083	.000183	.0003605
#2	-.000652	-.000607	.0003089
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1818.570	898.4154	7448.886	6075.763
Stddev	10.669	7.7021	6.748	14.771
%RSD	.5866933	.8573015	.0905893	.2431127
#1	1826.115	903.8616	7453.658	6065.319
#2	1811.026	892.9691	7444.115	6086.208

Sample Name: CCVL Acquired: 7/13/2018 11:15:21 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055857	.2224956	.0077778	.0527640	.0099422	.0041003	.0479822
Stddev	.0003611	.0046513	.0000786	.0002485	.0000319	.0000303	.0003404
%RSD	6.464149	2.090496	1.010523	.4710348	.3212220	.7400721	.7094341
#1	.0053304	.2257845	.0077222	.0525883	.0099196	.0040788	.0477415
#2	.0058411	.2192066	.0078334	.0529398	.0099648	.0041218	.0482229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1828967	.0022917	-.015200	.0048956	.0105331	.0117915	.2087989
Stddev	.0001569	.0000636	.002068	.0001280	.0001938	.0002315	.0196096
%RSD	.0857963	2.774046	13.60375	2.614812	1.839653	1.963046	9.391625
#1	.1827858	.0022467	-.013737	.0049861	.0106701	.0119552	.2226650
#2	.1830077	.0023366	-.016662	.0048051	.0103961	.0116278	.1949328
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5061641	.0109332	.0794332	.0093157	.0096807	1.041793	.0098561
Stddev	.0063976	.0001214	.0061000	.0004227	.0000729	.014622	.0004009
%RSD	1.263931	1.110435	7.679408	4.537777	.7532135	1.403517	4.067560
#1	.5016404	.0110191	.0751199	.0096146	.0097323	1.031454	.0101396
#2	.5106879	.0108474	.0837466	.0090168	.0096291	1.052132	.0095727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCVL Acquired: 7/13/2018 11:15:21 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041138	.0183447	.0113749	.1984976	.0382261	.0051997	.0049952
Stddev	.0009334	.0017996	.0005496	.0003469	.0001602	.0000174	.0000888
%RSD	22.68851	9.810026	4.831733	.1747359	.4190531	.3336626	1.777750
#1	.0047738	.0170722	.0109862	.1982523	.0383394	.0051874	.0049324
#2	.0034538	.0196173	.0117635	.1987428	.0381129	.0052119	.0050580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0100380	.0049538	.0197058
Stddev	.0020427	.0000052	.0000833
%RSD	20.34917	.1057300	.4226296
#1	.0114824	.0049575	.0196469
#2	.0085936	.0049501	.0197647
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1814.788	904.5721	7487.984	6124.412
Stddev	11.069	6.4381	38.226	19.654
%RSD	.6099531	.7117265	.5104994	.3209170
#1	1822.615	909.1245	7515.014	6138.310
#2	1806.961	900.0197	7460.954	6110.514

Sample Name: 500-148137-a-1-c@10 Acquired: 7/13/2018 11:19:22 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006881	.0281773	.0010006	.1000837	.0177541	-.000472	-.003831
Stddev	.0001875	.0065798	.0034972	.0019311	.0001282	.000141	.000012
%RSD	27.24992	23.35159	349.5036	1.929485	.7217923	29.95063	.3250667
#1	.0005555	.0328300	-.001472	.0987182	.0178447	-.000372	-.003823
#2	.0008207	.0235247	.003473	.1014492	.0176635	-.000572	-.003840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	171.2852	.0002398	-.007336	-.000540	.0015790	.0027088	.0196171
Stddev	1.5066	.0001250	.009497	.000021	.0000175	.0002482	.0723084
%RSD	.8796073	52.11587	129.4597	3.810783	1.107769	9.162902	368.5988
#1	170.2198	.0001514	-.014052	-.000525	.0015667	.0025333	.0707469
#2	172.3505	.0003282	-.000620	-.000554	.0015914	.0028843	-.031513
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.461671	.0036146	15.76471	.0030636	11.12752	6.297283	-.003933
Stddev	.009365	.0004133	.00969	.0004372	.02068	.004875	.000167
%RSD	.3804197	11.43493	.0614555	14.27210	.1858402	.0774203	4.250897
#1	2.455049	.0039069	15.75786	.0033728	11.11290	6.300731	-.004051
#2	2.468293	.0033224	15.77156	.0027544	11.14214	6.293836	-.003815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148137-a-1-c@10 Acquired: 7/13/2018 11:19:22 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001499**	**-.000075**	**.0004134**	**.2144050**	**-.001419**	**.0810305**	**.0034857**
Stddev	.001630	.000250	.0024705	.0010721	.001061	.0000615	.0002722
%RSD	108.7486	333.7213	597.6560	.5000208	74.71857	.0759356	7.808553
#1	-.000346	.000102	.0021603	.2136469	-.002169	.0810740	.0032933
#2	-.002652	-.000252	-.001334	.2151630	-.000669	.0809869	.0036782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	**-.000930**	**.0022465**	**.0001597**
Stddev	.001483	.0002292	.0004478
%RSD	159.4335	10.20243	280.4767
#1	-.001979	.0020844	-.000157
#2	.000118	.0024085	.000476
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1517.894**	**817.0753**	**6834.922**	**5844.075**
Stddev	6.278	4.6074	3.127	5.874
%RSD	.4135740	.5638893	.0457449	.1005156
#1	1522.333	820.3332	6837.133	5839.921
#2	1513.455	813.8173	6832.712	5848.228

Sample Name: 500-148211-a-9-b@5 Acquired: 7/13/2018 11:23:18 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018676	1.293650	.0149807	.1842989	.4405960	.0003170	.0011279
Stddev	.0000427	.009811	.0024063	.0008440	.0001560	.0001813	.0032006
%RSD	2.287603	.7583996	16.06237	.4579553	.0354002	57.17553	283.7767
#1	.0018374	1.286713	.0132792	.1837021	.4407063	.0004452	-.001135
#2	.0018978	1.300588	.0166822	.1848957	.4404857	.0001889	.003391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.965347	.0070629	-.008941	.0015576	4.190614	.1967071	8.941905
Stddev	.039410	.0001391	.001569	.0001384	.009665	.0004985	.061850
%RSD	.9938580	1.969865	17.55190	8.885113	.2306237	.2534132	.6916876
#1	3.937480	.0071613	-.007831	.0014598	4.197448	.1963546	8.898171
#2	3.993215	.0069645	-.010051	.0016555	4.183780	.1970596	8.985640
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1811302	.0014417	1.114370	.0508119	.0034848	.8299459	.0490983
Stddev	.0060685	.0000114	.011610	.0002112	.0002437	.0107423	.0012995
%RSD	3.350380	.7898630	1.041811	.4157118	6.992133	1.294334	2.646735
#1	.1768391	.0014498	1.122579	.0509612	.0033125	.8375419	.0500172
#2	.1854213	.0014337	1.106160	.0506625	.0036571	.8223500	.0481794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148211-a-9-b@5 Acquired: 7/13/2018 11:23:18 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5180520	.0139435	.0066251	.3118971	.0700075	.0153372	.0205467
Stddev	.0003647	.0002573	.0003123	.0033695	.0000480	.0000361	.0002227
%RSD	.0704023	1.845315	4.714107	1.080327	.0685339	.2350617	1.083698
#1	.5183099	.0137616	.0068459	.3142797	.0699736	.0153117	.0203892
#2	.5177941	.0141254	.0064043	.3095145	.0700414	.0153626	.0207041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001283	.0817714	1.088966
Stddev	.000804	.0009352	.001364
%RSD	62.69197	1.143637	.1252181
#1	-.001851	.0824327	1.089930
#2	-.000714	.0811101	1.088002
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1765.080	843.0047	7377.541	6071.495
Stddev	4.938	2.7016	2.760	7.520
%RSD	.2797811	.3204770	.0374126	.1238527
#1	1768.572	844.9151	7375.590	6076.812
#2	1761.588	841.0944	7379.493	6066.177

Sample Name: 500-148211-a-10-b@5 Acquired: 7/13/2018 11:27:15 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016650	1.236934	.0145983	.2559255	1.333694	.0000636	.0003149
Stddev	.0000735	.002751	.0003655	.0010928	.007251	.0000113	.0011135
%RSD	4.416667	.2224399	2.503348	.4270033	.5436467	17.78544	353.5889
#1	.0016130	1.238879	.0143399	.2551527	1.338821	.0000556	.0011023
#2	.0017170	1.234988	.0148568	.2566982	1.328567	.0000716	-.000472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.516566	.0013943	-.016181	.0004227	4.644459	.2033944	2.674980
Stddev	.007910	.0001167	.001842	.0001737	.020585	.0012025	.007176
%RSD	.2249360	8.370915	11.38334	41.09129	.4432187	.5912152	.2682667
#1	3.510973	.0013118	-.017483	.0005455	4.629903	.2042447	2.669906
#2	3.522159	.0014769	-.014878	.0002999	4.659015	.2025441	2.680054
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2291314	.0013003	.6623632	.0235758	.0024421	.6627931	.0302784
Stddev	.0001799	.0002178	.0102290	.0002714	.0002679	.0033758	.0002533
%RSD	.0785115	16.74954	1.544313	1.151051	10.96931	.5093317	.8363938
#1	.2292586	.0014543	.6551303	.0237677	.0022527	.6651802	.0304574
#2	.2290041	.0011463	.6695962	.0233840	.0026315	.6604061	.0300993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148211-a-10-b@5 Acquired: 7/13/2018 11:27:15 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4727061	.0092057	.0094723	.3802841	.0677334	.0208726	.0119765
Stddev	.0023460	.0029964	.0021832	.0019955	.0019521	.0000027	.0002776
%RSD	.4962896	32.54893	23.04807	.5247450	2.881959	.0128184	2.317825
#1	.4710473	.0070870	.0079285	.3788731	.0663531	.0208707	.0121728
#2	.4743650	.0113245	.0110160	.3816952	.0691138	.0208745	.0117802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002850	.0897060	.2665721
Stddev	.001953	.0002918	.0018708
%RSD	68.51590	.3253020	.7018117
#1	-.004231	.0894996	.2652492
#2	-.001469	.0899123	.2678950
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1772.066	838.1372	7342.537	6082.252
Stddev	8.641	3.2522	11.207	15.210
%RSD	.4876362	.3880328	.1526374	.2500767
#1	1778.177	840.4369	7334.612	6071.497
#2	1765.956	835.8375	7350.462	6093.007

Sample Name: 500-148259-a-1-a@10 Acquired: 7/13/2018 11:31:13 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002875	.0507141	-.000395	.0053336	.0008222	.0000006	-.001104
Stddev	.0000411	.0046195	.001395	.0004950	.0000178	.0001749	.000455
%RSD	14.28563	9.108957	352.9132	9.280646	2.158621	27516.83	41.15775
#1	.0002584	.0474476	-.001381	.0056836	.0008096	.0001243	-.001426
#2	.0003165	.0539806	.000591	.0049836	.0008347	-.000123	-.000783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.72348	.0004525	-.020537	-.000140	.0020957	.0027177	.0538199
Stddev	.38051	.0000294	.001604	.000077	.0009030	.0000684	.0428274
%RSD	1.238507	6.498698	7.811587	54.55303	43.08552	2.517531	79.57545
#1	30.99255	.0004733	-.019403	-.000086	.0027342	.0026694	.0841034
#2	30.45442	.0004317	-.021672	-.000195	.0014573	.0027661	.0235363
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0439085	.0003669	.0534437	.0001727	.0003015	17.94382	.0007844
Stddev	.0083466	.0001269	.0018891	.0001545	.0003996	.17821	.0004850
%RSD	19.00911	34.58945	3.534648	89.46337	132.5076	.9931490	61.82285
#1	.0498105	.0004567	.0547794	.0000635	.0005841	17.81780	.0011273
#2	.0380066	.0002772	.0521079	.0002820	.0000190	18.06983	.0004415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148259-a-1-a@10 Acquired: 7/13/2018 11:31:13 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000500	-.000360	.0046478	.6517530	.0034081	.0160030	.3205975
Stddev	.001361	.001058	.0038841	.0030899	.0010436	.0000108	.0082575
%RSD	272.0394	293.5380	83.56829	.4740889	30.62099	.0672087	2.575663
#1	.000462	.000388	.0073942	.6539379	.0041460	.0159954	.3147585
#2	-.001463	-.001108	.0019013	.6495681	.0026701	.0160106	.3264364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001371	.0000627	.0384337
Stddev	.001006	.0002484	.0001355
%RSD	73.35059	396.0726	.3525893
#1	-.002082	-.000113	.0385296
#2	-.000660	.000238	.0383379
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1659.357	849.7765	7136.858	5991.318
Stddev	10.744	4.9855	8.761	10.102
%RSD	.6475047	.5866830	.1227598	.1686089
#1	1651.760	846.2513	7130.663	5998.461
#2	1666.955	853.3018	7143.053	5984.175

Sample Name: mb 500-440708/1-a Acquired: 7/13/2018 11:37:12 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001640	.0671634	-.003283	.0066617	.0000640	.0002730	-.005851
Stddev	.0001663	.0176870	.000140	.0001296	.0000921	.0003752	.001057
%RSD	101.3913	26.33425	4.269876	1.945938	143.9144	137.4645	18.06717
#1	.0000464	.0546568	-.003184	.0067534	.0001291	.0000076	-.006599
#2	.0002816	.0796700	-.003382	.0065701	-.000001	.0005383	-.005104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0643719	.0006871	-.013289	-.000995	.0017256	.0021840	.0650559
Stddev	.0043245	.0000201	.004710	.000382	.0001308	.0000268	.0017659
%RSD	6.718015	2.925363	35.44381	38.39873	7.579413	1.229559	2.714468
#1	.0674298	.0007013	-.016620	-.001265	.0018181	.0022030	.0663046
#2	.0613140	.0006729	-.009959	-.000725	.0016331	.0021650	.0638072
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038996	.0002193	.0040265	.0002211	.0000685	.0435756	-.000338
Stddev	.0084856	.0000000	.0083123	.0000683	.0003445	.0001763	.000203
%RSD	217.6021	.0232319	206.4398	30.90202	502.7422	.4045716	60.04115
#1	-.002101	.0002193	.0099042	.0002694	.0003121	.0437003	-.000482
#2	.009900	.0002192	-.001851	.0001728	-.000175	.0434509	-.000195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-440708/1-a Acquired: 7/13/2018 11:37:12 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001159	.0011204	.0054414	.0143319	.0132911	.0001863	.0006890
Stddev	.0010194	.0003609	.0024775	.0025841	.0000008	.0000020	.0000408
%RSD	879.2577	32.20862	45.52969	18.03049	.0061741	1.079404	5.928541
#1	.0008368	.0013755	.0036896	.0161591	.0132917	.0001877	.0007178
#2	-.000605	.0008652	.0071933	.0125047	.0132906	.0001848	.0006601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002156	.0000342	.0110246
Stddev	.000791	.0003609	.0002360
%RSD	36.67939	1055.003	2.141051
#1	-.002715	-.000221	.0108577
#2	-.001596	.000289	.0111915
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1759.664	864.4761	7395.873	5991.048
Stddev	3.521	5.6132	41.945	42.955
%RSD	.2000819	.6493221	.5671413	.7169937
#1	1757.175	860.5069	7366.213	5960.674
#2	1762.154	868.4452	7425.533	6021.422

Sample Name: lcs 500-440708/2-a Acquired: 7/13/2018 11:41:14 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0420381	1.903536	.0916346	.8369043	1.894401	.0450922	.4466478
Stddev	.0000161	.013277	.0043224	.0035914	.007511	.0002002	.0023653
%RSD	.0383176	.6975166	4.717016	.4291279	.3964915	.4439902	.5295558
#1	.0420495	1.894147	.0946910	.8394438	1.889090	.0449506	.4483202
#2	.0420267	1.912924	.0885782	.8343648	1.899713	.0452338	.4449753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.982423	.0460626	-.025443	.4663727	.1848742	.2392567	.9465995
Stddev	.079092	.0002590	.005281	.0004737	.0001122	.0008778	.0548824
%RSD	.8805205	.5623474	20.75734	.1015783	.0606817	.3668902	5.797853
#1	8.926497	.0462458	-.021709	.4660377	.1847949	.2398774	.9077917
#2	9.038350	.0458795	-.029178	.4667077	.1849536	.2386360	.9854072
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.741085	.4927903	8.946945	.4510236	.9445685	9.749267	.4588969
Stddev	.015519	.0007775	.015252	.0035309	.0026184	.058189	.0002396
%RSD	.1593184	.1577807	.1704753	.7828684	.2772014	.5968566	.0522180
#1	9.730111	.4933401	8.936160	.4485269	.9464200	9.790413	.4587274
#2	9.752059	.4922405	8.957730	.4535204	.9427171	9.708121	.4590663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-440708/2-a Acquired: 7/13/2018 11:41:14 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0880288	.4579661	.0901888	3.396304	.9229549	.9291272	.9474572
Stddev	.0011797	.0006286	.0005932	.017840	.0019951	.0007417	.0000492
%RSD	1.340158	.1372677	.6577402	.5252762	.2161652	.0798238	.0051945
#1	.0871946	.4584106	.0897693	3.408919	.9215442	.9286028	.9474224
#2	.0888630	.4575216	.0906083	3.383690	.9243657	.9296517	.9474920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0801543	.4604840	.4598478
Stddev	.0005715	.0012019	.0026336
%RSD	.7129661	.2610177	.5727157
#1	.0805584	.4596341	.4579856
#2	.0797502	.4613339	.4617101
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1660.465	855.1485	7189.930	5969.735
Stddev	13.183	11.1301	19.282	4.664
%RSD	.7939487	1.301535	.2681823	.0781223
#1	1651.143	847.2784	7176.295	5973.033
#2	1669.788	863.0187	7203.565	5966.438

Sample Name: 500-148287-a-2-a Acquired: 7/13/2018 11:45:13 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003910	20.49791	.0393577	.0329034	.1652849	.0016341	-.001302
Stddev	.0006300	.06422	.0029424	.0001209	.0003946	.0004119	.001317
%RSD	161.1301	.3133158	7.475968	.3674407	.2387347	25.20812	101.1924
#1	.0008364	20.45250	.0372771	.0329889	.1650058	.0013428	-.002233
#2	-.000054	20.54333	.0414383	.0328179	.1655639	.0019254	-.000370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	433.3395	.0016295	.1291042	.0201125	.0555191	.0714276	59.65827
Stddev	1.3834	.0001039	.0041741	.0003959	.0002057	.0003288	.15349
%RSD	.3192476	6.378202	3.233128	1.968385	.3705910	.4603796	.2572769
#1	432.3613	.0015560	.1261527	.0203924	.0556646	.0716601	59.54973
#2	434.3177	.0017030	.1320558	.0198325	.0553736	.0711951	59.76680
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.798468	.0235428	163.1224	3.795065	.0005884	1.277033	.0432398
Stddev	.003008	.0002322	.0123	.001410	.0002706	.000025	.0002246
%RSD	.1074920	.9860710	.0075241	.0371638	45.98968	.0019886	.5193361
#1	2.796341	.0237070	163.1310	3.794068	.0003971	1.277051	.0433985
#2	2.800595	.0233787	163.1137	3.796062	.0007798	1.277015	.0430810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-2-a Acquired: 7/13/2018 11:45:13 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0280655	.0024306	.0040977	2.276840	.0204957	.3517576	1.173744
Stddev	.0017481	.0009642	.0007253	.000013	.0011487	.0007394	.005192
%RSD	6.228704	39.67108	17.69968	.0005545	5.604444	.2102049	.4423433
#1	.0268294	.0031124	.0035849	2.276832	.0196834	.3522805	1.177416
#2	.0293016	.0017488	.0046105	2.276849	.0213079	.3512348	1.170073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002735	.1076761	.1833961
Stddev	.003538	.0007819	.0015858
%RSD	129.3556	.7261659	.8647091
#1	-.005236	.1082290	.1822748
#2	-.000233	.1071232	.1845175
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1345.354	798.4866	6705.329	5727.459
Stddev	4.688	.0836	8.175	11.506
%RSD	.3484886	.0104643	.1219105	.2008941
#1	1348.670	798.4275	6699.548	5735.596
#2	1342.039	798.5457	6711.109	5719.323

Sample Name: 500-148287-a-5-a Acquired: 7/13/2018 11:49:10 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008457	25.10627	.0545755	.0397328	.1575443	.0016255
Stddev	.0001141	.14686	.0028896	.0002493	.0008513	.0003703
%RSD	13.49285	.5849585	5.294735	.6273986	.5403739	22.77983
#1	.0009264	25.00243	.0525323	.0399091	.1569423	.0013636
#2	.0007650	25.21012	.0566188	.0395565	.1581463	.0018873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010374	F 645.6230	.0018851	.0993416	.0208350	.0727440
Stddev	.0013331	7.3482	.0000747	.0064523	.0006375	.0009319
%RSD	128.4960	1.138152	3.960368	6.495062	3.059840	1.281052
#1	.0000948	640.4270	.0018323	.1039040	.0203842	.0720851
#2	.0019801	650.8189	.0019378	.0947791	.0212858	.0734029
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0763641	62.53283	3.194370	.0399979	283.8041	4.174748
Stddev	.0003779	.52588	.003923	.0003983	1.1342	.029593
%RSD	.4948239	.8409721	.1228118	.9958332	.3996574	.7088506
#1	.0760969	62.16098	3.197144	.0402796	283.0021	4.153823
#2	.0766313	62.90469	3.191596	.0397163	284.6062	4.195673
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148287-a-5-a Acquired: 7/13/2018 11:49:10 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000072**	**1.753738**	**.0477862**	**.0246349**	**-.000069**	**.0008737**
Stddev	.000055	.003481	.0005439	.0036093	.001455	.0065804
%RSD	75.36567	.1984847	1.138183	14.65118	2096.651	753.1920
#1	-.000111	1.751277	.0481708	.0271871	-.001098	-.003779
#2	-.000034	1.756200	.0474016	.0220827	.000959	.005527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.696248**	**.0221566**	**.3495144**	**1.444377**	**-.007657**	**.1112071**
Stddev	.024808	.0000284	.0001509	.000517	.002335	.0001731
%RSD	.9200946	.1279611	.0431777	.0357905	30.50302	.1556498
#1	2.713790	.0221766	.3496211	1.444742	-.009308	.1110848
#2	2.678706	.0221365	.3494077	1.444011	-.006005	.1113295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	**.1744320**
Stddev	.0010859
%RSD	.6225277
#1	.1736641
#2	.1751998
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148287-a-5-a Acquired: 7/13/2018 11:49:10 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1254.597	758.7799	6400.764	5561.505
Stddev	.500	1.2019	9.130	9.609
%RSD	.0398460	.1584014	.1426422	.1727789
#1	1254.243	757.9300	6394.308	5568.300
#2	1254.950	759.6297	6407.220	5554.711

Sample Name: 500-148287-a-7-a Acquired: 7/13/2018 11:53:13 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007812	25.68714	.1150572	.0421523	.1241163	.0018374	.0047019
Stddev	.0002770	.07917	.0061370	.0004166	.0005274	.0001116	.0006011
%RSD	35.45770	.3082009	5.333863	.9883679	.4248937	6.071184	12.78516
#1	.0005854	25.63116	.1193967	.0418577	.1237434	.0019163	.0042768
#2	.0009771	25.74312	.1107176	.0424469	.1244892	.0017585	.0051270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	537.1210	.0018745	.1841989	.0171442	.0617773	.0625160	61.04099
Stddev	8.8837	.0000604	.0036395	.0005340	.0013228	.0001284	.34509
%RSD	1.653947	3.221824	1.975844	3.114948	2.141213	.2053026	.5653416
#1	543.4028	.0018318	.1816253	.0175218	.0608420	.0624252	61.28501
#2	530.8393	.0019172	.1867724	.0167666	.0627127	.0626068	60.79697
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.786829	.0225056	238.4786	2.759149	.0008849	2.182156	.0388386
Stddev	.027839	.0001215	.8142	.000790	.0000753	.011410	.0014971
%RSD	.7351545	.5400141	.3414319	.0286289	8.512411	.5228755	3.854651
#1	3.767143	.0224197	237.9028	2.758590	.0008317	2.174088	.0398972
#2	3.806514	.0225916	239.0543	2.759708	.0009382	2.190224	.0377800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-7-a Acquired: 7/13/2018 11:53:13 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0304115	.0043169	.0034445	2.302195	.0237683	.3017824	2.034453
Stddev	.0027012	.0030878	.0039656	.023000	.0018698	.0002733	.006039
%RSD	8.882185	71.52713	115.1274	.9990507	7.866821	.0905659	.2968512
#1	.0285015	.0065003	.0062486	2.318458	.0250904	.3015892	2.030183
#2	.0323216	.0021335	.0006404	2.285931	.0224461	.3019757	2.038724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.006609	.1421508	.1513639
Stddev	.003429	.0005849	.0000557
%RSD	51.88136	.4114391	.0367938
#1	-.004184	.1425644	.1513245
#2	-.009034	.1417373	.1514033
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1296.652	790.8043	6636.306	5722.084
Stddev	6.506	3.9335	21.945	11.431
%RSD	.5017481	.4974111	.3306829	.1997702
#1	1292.051	788.0229	6620.788	5730.167
#2	1301.252	793.5857	6651.823	5714.001

Sample Name: CCV Acquired: 7/13/2018 11:57:16 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4765683	50.06901	.5032920	.5014083	.4869845	.4961932	.5088439
Stddev	.0034230	.08377	.0032648	.0012053	.0001874	.0030240	.0003115
%RSD	.7182491	.1673104	.6486828	.2403891	.0384750	.6094501	.0612085
#1	.4741479	50.12824	.5009834	.5005560	.4868520	.4983315	.5090642
#2	.4789887	50.00977	.5056005	.5022606	.4871170	.4940549	.5086237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.11383	.4962251	-.020536	.5121904	.4763406	.5003061	25.47758
Stddev	.08480	.0003036	.010246	.0000408	.0027590	.0012478	.02612
%RSD	.3376638	.0611929	49.89254	.0079642	.5792150	.2494002	.1025304
#1	25.17379	.4964398	-.013291	.5122193	.4743896	.5011884	25.45911
#2	25.05387	.4960104	-.027781	.5121616	.4782915	.4994238	25.49605
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	49.55317	3.880164	24.55790	4.776282	.4786553	24.59580	.5094178
Stddev	.12449	.010288	.05982	.010586	.0017530	.05398	.0002649
%RSD	.2512328	.2651518	.2435692	.2216334	.3662317	.2194820	.0520024
#1	49.46514	3.872889	24.51561	4.783768	.4774157	24.55763	.5092305
#2	49.64120	3.887439	24.60020	4.768797	.4798948	24.63397	.5096051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 7/13/2018 11:57:16 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5051612	.4849907	.4900564	.5040104	.5167180	.4861933	.4866266
Stddev	.0008741	.0032991	.0024976	.0019428	.0022067	.0006694	.0002292
%RSD	.1730244	.6802382	.5096475	.3854675	.4270669	.1376789	.0471109
#1	.5057793	.4826579	.4918225	.5026366	.5151576	.4866666	.4867887
#2	.5045432	.4873235	.4882904	.5053841	.5182784	.4857199	.4864645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.4763731	4.763294	.5244233
Stddev	.0022001	.004953	.0026620
%RSD	.4618488	.1039848	.5076031
#1	.4748174	4.766797	.5263056
#2	.4779288	4.759792	.5225410
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1555.480	861.5340	7146.128	6058.851
Stddev	4.771	4.2549	11.184	4.719
%RSD	.3066922	.4938768	.1565011	.0778880
#1	1558.853	864.5427	7138.220	6055.514
#2	1552.107	858.5254	7154.036	6062.188

Sample Name: CCB Acquired: 7/13/2018 12:01:09 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004550	.0173564	-.001080	.0017071	-.000134	.0003385	.0008875
Stddev	.0000788	.0042863	.000890	.0004033	.000018	.0002569	.0002236
%RSD	17.31415	24.69580	82.42967	23.62470	13.11306	75.87796	25.18865
#1	.0003993	.0203872	-.001710	.0014220	-.000121	.0005202	.0010456
#2	.0005108	.0143255	-.000451	.0019923	-.000146	.0001569	.0007294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006625	.0000005	-.017543	.0001660	.0003572	.0016963	.0407199
Stddev	.001467	.0000244	.006893	.0000040	.0000626	.0000430	.0022689
%RSD	22.14070	5053.044	39.29194	2.395125	17.53173	2.534785	5.571959
#1	-.005588	.0000178	-.022417	.0001688	.0003129	.0017267	.0423242
#2	-.007662	-.000017	-.012669	.0001632	.0004015	.0016659	.0391155
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008803	.0004305	-.018331	-.000181	.0004836	.0063571	.0004628
Stddev	.010633	.0000391	.017270	.000226	.0001104	.0012541	.0002319
%RSD	120.7930	9.073335	94.21060	124.7898	22.82328	19.72664	50.12193
#1	-.001284	.0004029	-.030543	-.000021	.0005616	.0072439	.0002987
#2	-.016321	.0004581	-.006120	-.000341	.0004055	.0054704	.0006268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/13/2018 12:01:09 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000768	-.000818	.0036277	.0024810	-.000449	.0000209	.0001186
Stddev	.0001708	.001228	.0024634	.0004007	.001144	.0000081	.0001094
%RSD	222.4092	150.1245	67.90541	16.15084	255.1377	38.70655	92.26078
#1	-.000044	-.001687	.0053696	.0027644	.000361	.0000152	.0000412
#2	.000198	.000050	.0018858	.0021977	-.001258	.0000266	.0001960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000546	.0001781	.0001391
Stddev	.001085	.0001207	.0003539
%RSD	198.7094	67.77493	254.5094
#1	.000221	.0002635	.0003893
#2	-.001314	.0000928	-.000111
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1808.625	894.6841	7458.490	6116.882
Stddev	6.202	2.5495	23.298	22.798
%RSD	.3429351	.2849634	.3123718	.3727039
#1	1813.010	896.4868	7442.016	6133.002
#2	1804.239	892.8813	7474.965	6100.761

Sample Name: 500-148287-a-12-a Acquired: 7/13/2018 12:05:13 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000864	19.62354	.0161048	.0321266	.1196819	.0013969
Stddev	.0001734	.06441	.0017843	.0001221	.0001139	.0002452
%RSD	200.6761	.3282337	11.07902	.3799764	.0951741	17.55288
#1	-.000036	19.66908	.0173665	.0320402	.1197624	.0015703
#2	.000209	19.57799	.0148432	.0322129	.1196014	.0012235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019111	F 616.3328	.0013493	.1191736	.0202147	.0451249
Stddev	.0017377	7.5053	.0002551	.0042666	.0001059	.0020881
%RSD	90.92483	1.217730	18.90848	3.580117	.5238406	4.627288
#1	.0006824	611.0257	.0015297	.1221905	.0202896	.0466014
#2	.0031398	621.6398	.0011689	.1161567	.0201398	.0436484
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1834567	53.46823	2.644604	.0273391	290.4022	2.311893
Stddev	.0010431	.19190	.024533	.0002918	1.0339	.012428
%RSD	.5685819	.3588999	.9276781	1.067490	.3560369	.5375881
#1	.1827191	53.33254	2.661952	.0275455	289.6710	2.303105
#2	.1841942	53.60393	2.627257	.0271327	291.1333	2.320682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148287-a-12-a Acquired: 7/13/2018 12:05:13 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005292	1.816211	.0443593	.0128926	.0019374	.0049693
Stddev	.0002980	.018195	.0016033	.0040224	.0005010	.0028346
%RSD	56.31451	1.001830	3.614294	31.19938	25.85681	57.04126
#1	.0003185	1.829077	.0432256	.0157369	.0015832	.0029650
#2	.0007400	1.803345	.0454930	.0100483	.0022916	.0069737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.064997	.0199434	.2991115	1.456660	-.003787	.1625552
Stddev	.003373	.0013351	.0001857	.002444	.000197	.0003213
%RSD	.1633492	6.694663	.0620749	.1677892	5.189324	.1976601
#1	2.067383	.0208875	.2989802	1.454932	-.003926	.1627824
#2	2.062612	.0189993	.2992428	1.458388	-.003648	.1623280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0966137
Stddev	.0002621
%RSD	.2713005
#1	.0964284
#2	.0967991
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148287-a-12-a Acquired: 7/13/2018 12:05:13 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1264.520	754.1653	6351.563	5606.588
Stddev	2.414	4.9169	13.354	7.944
%RSD	.1908894	.6519705	.2102440	.1416932
#1	1262.813	750.6885	6361.006	5600.971
#2	1266.226	757.6421	6342.121	5612.206

Sample Name: 500-148287-a-13-a Acquired: 7/13/2018 12:09:15 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001180	15.73576	.0228821	.0301502	.0787318	.0017268	.0038209
Stddev	.0000965	.01289	.0023060	.0011824	.0001493	.0001077	.0028953
%RSD	81.82469	.0818943	10.07765	3.921682	.1896855	6.238588	75.77693
#1	.0000497	15.72665	.0212515	.0309862	.0786262	.0016506	.0017736
#2	.0001862	15.74487	.0245126	.0293141	.0788374	.0018030	.0058682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	542.1054	.0012453	.1079718	.0178066	.0429678	.0767664	51.60432
Stddev	15.1783	.0004612	.0087683	.0006297	.0003424	.0004957	.18433
%RSD	2.799881	37.03616	8.120890	3.536106	.7969772	.6457111	.3571994
#1	531.3727	.0015715	.1141720	.0173614	.0427257	.0764159	51.73466
#2	552.8381	.0009192	.1017717	.0182519	.0432100	.0771169	51.47398
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.558383	.0307351	283.7824	2.291144	.0007122	1.445371	.0402377
Stddev	.002350	.0000358	.0893	.001125	.0009052	.009643	.0000638
%RSD	.0918497	.1164789	.0314608	.0491040	127.1056	.6671821	.1585896
#1	2.556721	.0307097	283.7192	2.291940	.0013522	1.438552	.0402828
#2	2.560044	.0307604	283.8455	2.290349	.0000721	1.452190	.0401925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-13-a Acquired: 7/13/2018 12:09:15 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125087	.0020761	.0070211	1.652218	.0222677	.2585442	1.537154
Stddev	.0015094	.0036252	.0016025	.006533	.0011081	.0001609	.000160
%RSD	12.06677	174.6169	22.82415	.3953863	4.976093	.0622171	.0104258
#1	.0135760	.0046395	.0081543	1.647599	.0230512	.2584304	1.537041
#2	.0114414	-.000487	.0058880	1.656838	.0214841	.2586579	1.537268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002486	.1754503	.0954834
Stddev	.000770	.0002973	.0002959
%RSD	30.97772	.1694655	.3098975
#1	-.003031	.1756605	.0952741
#2	-.001942	.1752400	.0956926
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1240.561	731.8957	6216.440	5450.199
Stddev	5.281	2.7188	20.251	11.113
%RSD	.4257070	.3714705	.3257635	.2039021
#1	1236.826	729.9732	6230.760	5442.341
#2	1244.295	733.8181	6202.121	5458.057

Sample Name: 500-148287-a-15-a Acquired: 7/13/2018 12:13:15 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018932	28.65101	1.518825	.0421294	.2928038	.0016436	.0035637
Stddev	.0005339	.15974	.018615	.0005893	.0009629	.0000105	.0020352
%RSD	28.20003	.5575410	1.225642	1.398775	.3288476	.6378511	57.10970
#1	.0022707	28.76396	1.505662	.0417127	.2934847	.0016362	.0021246
#2	.0015157	28.53805	1.531988	.0425461	.2921230	.0016511	.0050028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	271.5232	.0060720	.1299665	.0218413	.0822104	.0791262	75.13277
Stddev	.4200	.0000059	.0012319	.0001464	.0005713	.0003630	.08779
%RSD	.1546973	.0970684	.9478466	.6704660	.6949084	.4587419	.1168480
#1	271.2262	.0060678	.1290954	.0217378	.0826143	.0788695	75.19485
#2	271.8202	.0060762	.1308376	.0219448	.0818064	.0793829	75.07069
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.096772	.0255352	122.5467	6.836956	.0007682	2.931633	.0445200
Stddev	.037787	.0002804	.4026	.005479	.0007029	.032866	.0006008
%RSD	1.220209	1.097978	.3285597	.0801355	91.50949	1.121092	1.349396
#1	3.123491	.0257335	122.8314	6.840830	.0012652	2.954873	.0440952
#2	3.070052	.0253370	122.2620	6.833082	.0002711	2.908393	.0449448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-15-a Acquired: 7/13/2018 12:13:15 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0506487	.0011015	.0053893	2.434018	.0246955	.1712581	1.404576
Stddev	.0008812	.0038621	.0046453	.043038	.0001816	.0015029	.015753
%RSD	1.739869	350.6118	86.19390	1.768195	.7352495	.8775409	1.121524
#1	.0500256	.0038325	.0021046	2.403585	.0245671	.1701954	1.393437
#2	.0512719	-.001629	.0086740	2.464450	.0248239	.1723208	1.415715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.006292	.1098512	.2870416
Stddev	.000051	.0009100	.0027437
%RSD	.8169757	.8283677	.9558552
#1	-.006255	.1092078	.2851015
#2	-.006328	.1104947	.2889817
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1306.754	769.7390	6472.637	5564.446
Stddev	11.194	6.8580	48.301	23.765
%RSD	.8566520	.8909514	.7462396	.4270919
#1	1314.669	774.5883	6506.791	5547.641
#2	1298.838	764.8896	6438.482	5581.251

Sample Name: 148287-a-15-aSD@5 Acquired: 7/13/2018 12:17:09 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009138	5.715252	.3053136	.0105940	.0597921	.0006799	-.001314
Stddev	.0009237	.004440	.0032256	.0003934	.0001419	.0001012	.001375
%RSD	101.0759	.0776815	1.056487	3.713511	.2373526	14.88794	104.6728
#1	.0002607	5.718391	.3030327	.0103158	.0598924	.0007515	-.002286
#2	.0015669	5.712113	.3075944	.0108722	.0596917	.0006084	-.000341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	56.61072	.0011592	.0174216	.0044376	.0171942	.0173395	15.85054
Stddev	.35076	.0000022	.0003445	.0000103	.0011636	.0000838	.04792
%RSD	.6195992	.1930705	1.977207	.2310564	6.767161	.4832926	.3022987
#1	56.36269	.0011608	.0176652	.0044448	.0163714	.0173988	15.81665
#2	56.85874	.0011576	.0171780	.0044303	.0180169	.0172803	15.88442
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5995341	.0052928	24.68244	1.450760	-.000220	.5847860	.0082514
Stddev	.0072043	.0000750	.01555	.003620	.000515	.0050536	.0002254
%RSD	1.201646	1.417567	.0629824	.2495258	233.7357	.8641743	2.731806
#1	.6046283	.0053458	24.67145	1.448201	.000144	.5883595	.0084108
#2	.5944399	.0052397	24.69343	1.453320	-.000584	.5812126	.0080920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 148287-a-15-aSD@5 Acquired: 7/13/2018 12:17:09 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0102815	-.000520	.0026076	.5029837	.0048341	.0357036	.2920684
Stddev	.0011447	.000909	.0020365	.0021114	.0001298	.0001277	.0002535
%RSD	11.13343	174.7326	78.10124	.4197730	2.685131	.3576746	.0867940
#1	.0110909	-.001163	.0040476	.5014908	.0049259	.0357939	.2918892
#2	.0094721	.000123	.0011675	.5044767	.0047424	.0356133	.2922477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001752	.0227134	.0578780
Stddev	.000818	.0016955	.0006884
%RSD	46.66868	7.464784	1.189343
#1	-.001174	.0215145	.0573913
#2	-.002330	.0239123	.0583648
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1558.959	834.1287	6939.752	5807.111
Stddev	1.707	1.0112	8.507	11.452
%RSD	.1094848	.1212330	.1225841	.1972108
#1	1557.752	833.4136	6933.737	5799.013
#2	1560.166	834.8437	6945.768	5815.209

Sample Name: 500-148287-a-15-b du Acquired: 7/13/2018 12:21:07 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016231	30.12745	1.604684	.0435375	.3033373	.0016009	.0027114
Stddev	.0004404	.07429	.014674	.0006458	.0009977	.0000139	.0020785
%RSD	27.13276	.2465851	.9144521	1.483409	.3289089	.8696102	76.65481
#1	.0013117	30.07492	1.615060	.0439941	.3026318	.0016108	.0041811
#2	.0019345	30.17998	1.594307	.0430808	.3040428	.0015911	.0012418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	283.7394	.0058148	.1280505	.0219455	.0827472	.0797205	76.63269
Stddev	.0711	.0002073	.0048949	.0002414	.0000873	.0003966	.00441
%RSD	.0250575	3.564426	3.822641	1.100084	.1055076	.4974821	.0057509
#1	283.6891	.0056683	.1315117	.0221162	.0826855	.0794401	76.63581
#2	283.7896	.0059614	.1245893	.0217748	.0828090	.0800010	76.62958
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.386847	.0264948	131.3614	7.006374	.0041524	3.087089	.0492240
Stddev	.022357	.0000318	.6396	.001915	.0009254	.027077	.0019996
%RSD	.6601158	.1200954	.4869294	.0273368	22.28625	.8771162	4.062276
#1	3.371038	.0265173	130.9091	7.005020	.0048068	3.067942	.0506380
#2	3.402656	.0264723	131.8137	7.007728	.0034980	3.106235	.0478101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-15-b du Acquired: 7/13/2018 12:21:07 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0518502	.0035443	.0064228	2.900937	.0262108	.1708745	1.473005
Stddev	.0008524	.0027416	.0015463	.051762	.0006268	.0009752	.006739
%RSD	1.643907	77.35274	24.07565	1.784334	2.391198	.5706970	.4575150
#1	.0524529	.0016057	.0075162	2.937538	.0257677	.1701849	1.468239
#2	.0512475	.0054830	.0053294	2.864335	.0266540	.1715640	1.477770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.006308	.1127423	.2893874
Stddev	.003197	.0003764	.0024605
%RSD	50.68737	.3338567	.8502409
#1	-.008569	.1130085	.2911272
#2	-.004047	.1124762	.2876476
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1349.314	800.0909	6608.533	5637.784
Stddev	11.501	8.7841	20.133	4.617
%RSD	.8523902	1.097884	.3046464	.0818947
#1	1341.181	793.8796	6622.769	5634.519
#2	1357.446	806.3022	6594.297	5641.049

Sample Name: 500-148287-a-15-c ms Acquired: 7/13/2018 12:25:02 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0432993	33.72509	1.335582	.8207353	1.993781	.0458384	.4896733
Stddev	.0001675	.14657	.003175	.0023421	.012650	.0005347	.0021476
%RSD	.3869309	.4346122	.2377437	.2853629	.6344616	1.166501	.4385727
#1	.0434177	33.62145	1.337827	.8190792	1.984836	.0454603	.4911918
#2	.0431808	33.82874	1.333337	.8223914	2.002726	.0462165	.4881547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	240.1513	.0481391	.1108702	.4871022	.2381339	.2935807	63.39039
Stddev	.8658	.0001590	.0059617	.0028400	.0022582	.0018334	.46141
%RSD	.3605294	.3302518	5.377190	.5830320	.9482727	.6244818	.7278917
#1	239.5390	.0480266	.1150858	.4850940	.2397306	.2948771	63.06412
#2	240.7635	.0482515	.1066546	.4891103	.2365371	.2922843	63.71666
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.39966	.4801409	108.9486	5.953964	.8360624	12.16698	.4994846
Stddev	.09435	.0046477	.7353	.018933	.0003187	.08796	.0022129
%RSD	.7041098	.9679810	.6749331	.3179912	.0381197	.7229522	.4430263
#1	13.33295	.4768545	108.4286	5.940576	.8358370	12.10478	.4979199
#2	13.46638	.4834273	109.4685	5.967352	.8362878	12.22918	.5010493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-15-c ms Acquired: 7/13/2018 12:25:02 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1306020	.3555596	.0832837	3.655209	.9395067	.9906959	2.296037
Stddev	.0037208	.0010446	.0009095	.006196	.0044177	.0007210	.001716
%RSD	2.848947	.2937810	1.092064	.1695047	.4702200	.0727751	.0747410
#1	.1332330	.3548210	.0826406	3.650828	.9363829	.9901861	2.297250
#2	.1279710	.3562982	.0839268	3.659590	.9426305	.9912057	2.294823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0797059	.5219058	.6893919
Stddev	.0014015	.0000829	.0028893
%RSD	1.758284	.0158907	.4191114
#1	.0787150	.5219644	.6873489
#2	.0806969	.5218471	.6914350
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1464.346	871.4645	7239.500	6143.191
Stddev	1.807	1.7890	7.474	37.096
%RSD	.1233864	.2052809	.1032345	.6038545
#1	1465.623	870.1995	7234.216	6169.422
#2	1463.068	872.7295	7244.785	6116.960

Sample Name: 148287-a-15-d msd Acquired: 7/13/2018 12:28:59 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0425530	33.78926	1.301368	.8306134	1.994506	.0457655	.4911116
Stddev	.0000769	.10728	.008530	.0035305	.011481	.0001332	.0020879
%RSD	.1807043	.3174937	.6554885	.4250473	.5756190	.2911129	.4251449
#1	.0424987	33.86512	1.295336	.8281170	2.002624	.0458597	.4896352
#2	.0426074	33.71340	1.307400	.8331099	1.986388	.0456713	.4925880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	246.2227	.0484996	.1188127	.4965204	.2373335	.2897338	63.62992
Stddev	1.7041	.0003536	.0048649	.0004408	.0021626	.0009239	.12563
%RSD	.6920796	.7290156	4.094584	.0887733	.9112208	.3188885	.1974344
#1	245.0178	.0482496	.1153727	.4962087	.2358043	.2903871	63.54108
#2	247.4277	.0487496	.1222526	.4968321	.2388628	.2890805	63.71875
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.48044	.4803785	114.9682	5.909236	.8394301	12.17216	.5006409
Stddev	.13624	.0067795	.2900	.021407	.0042967	.13681	.0013400
%RSD	1.010640	1.411288	.2522160	.3622654	.5118549	1.123981	.2676654
#1	13.57678	.4851723	115.1732	5.894099	.8363919	12.26891	.4996933
#2	13.38411	.4755846	114.7631	5.924373	.8424683	12.07542	.5015884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 148287-a-15-d msd Acquired: 7/13/2018 12:28:59 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1314538	.3638392	.0806135	3.674801	.9457758	.9910787	2.296269
Stddev	.0013907	.0031804	.0001447	.028139	.0018671	.0036198	.004935
%RSD	1.057954	.8741119	.1795056	.7657212	.1974172	.3652416	.2149105
#1	.1324372	.3615904	.0805112	3.654904	.9444555	.9936384	2.299758
#2	.1304704	.3660881	.0807158	3.694698	.9470960	.9885191	2.292779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0791848	.5240307	.6902973
Stddev	.0008753	.0004264	.0001047
%RSD	1.105376	.0813645	.0151639
#1	.0785659	.5237292	.6903714
#2	.0798037	.5243322	.6902233
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1458.806	870.3419	7278.466	6155.753
Stddev	5.499	6.5302	31.027	43.492
%RSD	.3769500	.7503034	.4262843	.7065200
#1	1462.695	874.9595	7256.526	6125.000
#2	1454.918	865.7244	7300.405	6186.506

Sample Name: 500-148287-a-21-a Acquired: 7/13/2018 12:32:57 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012715	24.51076	.1743584	.0340913	.2259940	.0015854	.0040250
Stddev	.0008567	.07465	.0014970	.0001313	.0010974	.0004248	.0017686
%RSD	67.38124	.3045624	.8585805	.3851963	.4855861	26.79146	43.94039
#1	.0018773	24.56355	.1754169	.0339985	.2267700	.0018858	.0027744
#2	.0006657	24.45798	.1732998	.0341842	.2252180	.0012851	.0052756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	185.0621	.0027536	.1291490	.0206595	.0755603	.0696137	66.94969
Stddev	2.1791	.0002097	.0163493	.0000601	.0012324	.0011005	.64213
%RSD	1.177501	7.616288	12.65926	.2907101	1.631053	1.580811	.9591283
#1	183.5212	.0029019	.1407097	.0207020	.0746888	.0688355	66.49563
#2	186.6029	.0026053	.1175883	.0206171	.0764317	.0703918	67.40375
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.570116	.0222139	88.24802	3.913258	.0013857	.9296371	.0394528
Stddev	.038962	.0004207	.01679	.021625	.0000288	.0163140	.0001174
%RSD	1.515955	1.893697	.0190287	.5526034	2.077809	1.754882	.2974600
#1	2.597666	.0225113	88.25990	3.897967	.0014061	.9411728	.0393698
#2	2.542566	.0219164	88.23615	3.928549	.0013654	.9181013	.0395358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-21-a Acquired: 7/13/2018 12:32:57 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0515868	.0027548	.0022109	2.218328	.0248990	.1136646	1.280930
Stddev	.0014391	.0008290	.0020952	.002247	.0009508	.0017273	.022331
%RSD	2.789588	30.09465	94.76490	.1013025	3.818516	1.519622	1.743339
#1	.0505692	.0021686	.0036925	2.216739	.0242267	.1124432	1.265140
#2	.0526044	.0033410	.0007294	2.219917	.0255713	.1148860	1.296720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.004588	.0951234	.2971054
Stddev	.002233	.0017577	.0003691
%RSD	48.67452	1.847841	.1242418
#1	-.006167	.0938805	.2973664
#2	-.003009	.0963663	.2968444
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1536.371	896.9080	7405.634	6259.363
Stddev	4.342	1.9711	47.497	49.962
%RSD	.2826168	.2197616	.6413604	.7981944
#1	1539.442	898.3017	7439.219	6224.034
#2	1533.301	895.5142	7372.048	6294.691

Sample Name: 500-148287-a-23-a Acquired: 7/13/2018 12:36:53 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008593	20.88442	.0857726	.0310656	.2098531	.0011816	.0034544
Stddev	.0002676	.10392	.0008468	.0006382	.0012218	.0001685	.0013307
%RSD	31.14497	.4975957	.9872574	2.054251	.5822325	14.25670	38.52138
#1	.0006701	20.81094	.0851738	.0306143	.2089892	.0010625	.0043954
#2	.0010485	20.95790	.0863714	.0315168	.2107171	.0013007	.0025135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	182.4096	.0017656	.1039096	.0198678	.0649006	.0667446	64.54718
Stddev	.4867	.0003722	.0005709	.0004316	.0010679	.0003154	.26852
%RSD	.2668388	21.08290	.5494722	2.172562	1.645488	.4726006	.4160071
#1	182.0655	.0015024	.1043133	.0201731	.0641455	.0669677	64.35731
#2	182.7538	.0020288	.1035059	.0195626	.0656558	.0665215	64.73705
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.167386	.0199127	91.76735	4.333472	.0004293	.7884480	.0366746
Stddev	.026772	.0001586	.20135	.013972	.0003029	.0072727	.0003376
%RSD	1.235217	.7964803	.2194134	.3224131	70.56288	.9224037	.9204115
#1	2.148455	.0198006	91.62497	4.323593	.0006434	.7833054	.0369133
#2	2.186316	.0200249	91.90973	4.343352	.0002151	.7935905	.0364359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-23-a Acquired: 7/13/2018 12:36:53 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0456317	-.000431	.0055728	1.736538	.0188531	.0968827	1.129926
Stddev	.0009770	.001255	.0027090	.000760	.0009576	.0001279	.001245
%RSD	2.141016	291.3047	48.61152	.0437741	5.079251	.1320145	.1101901
#1	.0449409	.000457	.0036572	1.736000	.0195302	.0969732	1.129045
#2	.0463225	-.001318	.0074884	1.737075	.0181760	.0967923	1.130806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.004691	.0885618	.3157058
Stddev	.000848	.0003487	.0018378
%RSD	18.07992	.3937247	.5821298
#1	-.005291	.0888083	.3144063
#2	-.004092	.0883152	.3170054
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1552.112	901.9043	7392.635	6266.320
Stddev	.850	.1543	28.520	3.867
%RSD	.0547538	.0171035	.3857925	.0617039
#1	1551.511	901.7952	7372.468	6263.586
#2	1552.713	902.0134	7412.802	6269.054

Sample Name: 500-148287-a-24-a Acquired: 7/13/2018 12:40:48 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007690	24.11840	.1969977	.0342183	.2273829	.0014597	.0056603
Stddev	.0001302	.00402	.0016729	.0001330	.0001153	.0002691	.0017056
%RSD	16.93378	.0166841	.8491985	.3885314	.0507006	18.43688	30.13242
#1	.0006769	24.12124	.1981806	.0343123	.2273014	.0012694	.0068664
#2	.0008611	24.11555	.1958147	.0341243	.2274644	.0016500	.0044543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	226.9099	.0023534	.1199135	.0229196	.0860954	.0753240	65.43880
Stddev	.5233	.0002346	.0033784	.0000250	.0013845	.0002693	.09565
%RSD	.2306286	9.968939	2.817392	.1089627	1.608134	.3575503	.1461618
#1	227.2800	.0021875	.1223024	.0229019	.0851164	.0751335	65.50644
#2	226.5399	.0025192	.1175246	.0229372	.0870744	.0755144	65.37117
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.547968	.0216256	101.3942	3.701043	.0017197	1.139322	.0434537
Stddev	.010965	.0000484	.0584	.001133	.0002727	.001398	.0015657
%RSD	.4303281	.2240157	.0576192	.0306226	15.85687	.1227194	3.603145
#1	2.555722	.0215913	101.4355	3.701844	.0019125	1.140311	.0423466
#2	2.540215	.0216599	101.3529	3.700241	.0015269	1.138333	.0445608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-24-a Acquired: 7/13/2018 12:40:48 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0637574	-.000937	.0092252	1.978713	.0244475	.1347275	1.346551
Stddev	.0003316	.003587	.0016161	.000949	.0023449	.0002645	.000261
%RSD	.5201642	382.8512	17.51824	.0479578	9.591613	.1963045	.0194084
#1	.0635229	-.003473	.0103679	1.978042	.0227894	.1349145	1.346367
#2	.0639919	.001599	.0080824	1.979384	.0261056	.1345405	1.346736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000833	.1022988	.2747731
Stddev	.003166	.0005509	.0008266
%RSD	379.9830	.5385026	.3008268
#1	.001406	.1019093	.2741886
#2	-.003072	.1026883	.2753576
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1530.614	902.1224	7414.089	6306.910
Stddev	1.928	2.4724	22.812	7.656
%RSD	.1259762	.2740641	.3076833	.1213864
#1	1529.251	900.3742	7397.959	6312.323
#2	1531.978	903.8707	7430.220	6301.496

Sample Name: CCV Acquired: 7/13/2018 12:44:46 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4692190**	**47.80148**	**.4768497**	**.4752394**	**.4647916**	**.4798296**
Stddev	.0035190	.09590	.0043355	.0017604	.0001730	.0014456
%RSD	.7499706	.2006160	.9091850	.3704304	.0372278	.3012810
#1	.4717073	47.86929	.4737840	.4739946	.4649139	.4808518
#2	.4667307	47.73367	.4799153	.4764842	.4646692	.4788074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4897288**	**25.06165**	**.4771713**	**-.031176**	**.4969934**	**.4696893**
Stddev	.0032432	.21852	.0024811	.001841	.0006684	.0049626
%RSD	.6622430	.8719429	.5199581	5.904745	.1344903	1.056563
#1	.4874355	25.21617	.4754169	-.032478	.4965208	.4731983
#2	.4920221	24.90714	.4789257	-.029875	.4974660	.4661802
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4776293**	**25.07058**	**46.47993**	F **3.594899**	**23.69142**	**4.682841**
Stddev	.0008063	.20839	.13753	.001828	.04574	.023096
%RSD	.1688171	.8312220	.2958911	.0508550	.1930611	.4931953
#1	.4770592	25.21793	46.57717	3.596191	23.72377	4.699172
#2	.4781995	24.92322	46.38268	3.593606	23.65908	4.666510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				4.000000		
Range				-10.0000%		

Sample Name: CCV Acquired: 7/13/2018 12:44:46 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4554953	23.05656	.4922452	.4882002	.4629054	.4636931
Stddev	.0022376	.03609	.0033762	.0012206	.0029077	.0073362
%RSD	.4912458	.1565340	.6858805	.2500185	.6281387	1.582131
#1	.4539131	23.08208	.4898579	.4873371	.4608494	.4585056
#2	.4570776	23.03104	.4946326	.4890633	.4649615	.4688806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4795238	.5053393	.4670236	.4710037	.4654376	4.661568
Stddev	.0031309	.0051247	.0006725	.0012434	.0041371	.015636
%RSD	.6529270	1.014104	.1440033	.2639786	.8888603	.3354210
#1	.4773099	.5017156	.4674991	.4718829	.4625122	4.672624
#2	.4817377	.5089630	.4665480	.4701245	.4683630	4.650512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.5161078
Stddev	.0030740
%RSD	.5956134
#1	.5139342
#2	.5182815
Check ?	Chk Pass
Value	
Range	

Sample Name: CCV Acquired: 7/13/2018 12:44:46 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1677.185	943.0714	7566.788	6371.269
Stddev	2.464	1.5940	13.924	11.933
%RSD	.1469023	.1690208	.1840094	.1872933
#1	1678.928	944.1985	7576.634	6362.831
#2	1675.443	941.9443	7556.943	6379.707

Sample Name: CCB Acquired: 7/13/2018 12:48:37 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003734	.0180315	.0024855	.0017806	-.000063	.0001770	.0020853
Stddev	.0000293	.0030951	.0007016	.0001440	.000043	.0001149	.0011950
%RSD	7.847026	17.16477	28.22709	8.088144	68.27458	64.90678	57.30881
#1	.0003527	.0202201	.0029816	.0016788	-.000032	.0000958	.0012403
#2	.0003941	.0158430	.0019894	.0018824	-.000093	.0002583	.0029303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032877	.0000080	-.020161	-.000020	.0002907	.0012203	.0259559
Stddev	.0000175	.0001390	.002517	.000702	.0014643	.0000767	.0297365
%RSD	.5329522	1747.250	12.48301	3475.377	503.7425	6.287055	114.5657
#1	.0033000	-.000090	-.018382	.000476	-.000745	.0012746	.0469828
#2	.0032753	.000106	-.021941	-.000516	.001326	.0011661	.0049290
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006854	.0006906	-.004552	-.000402	.0001144	.0047214	.0007179
Stddev	.003289	.0000547	.018624	.000034	.0003780	.0007217	.0002655
%RSD	47.98045	7.916516	409.1568	8.402347	330.3787	15.28690	36.97681
#1	-.004529	.0007293	.008617	-.000426	-.000153	.0052317	.0005302
#2	-.009179	.0006520	-.017721	-.000378	.000382	.0042110	.0009057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/13/2018 12:48:37 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000106	-.001818	.0059812	.0009709	-.000084	.0000329	.0000577
Stddev	.001998	.001244	.0017343	.0010803	.000134	.0000034	.0000604
%RSD	1891.726	68.40791	28.99605	111.2674	159.6974	10.18806	104.5918
#1	.001307	-.002698	.0047549	.0017348	-.000179	.0000306	.0000150
#2	-.001518	-.000939	.0072076	.0002070	.000011	.0000353	.0001005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001007	-.000250	-.000135
Stddev	.000457	.000149	.000046
%RSD	45.36538	59.50775	33.65959
#1	-.001331	-.000355	-.000167
#2	-.000684	-.000145	-.000103
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1962.101	982.3660	7988.253	6493.737
Stddev	2.735	1.5726	13.805	16.565
%RSD	.1394017	.1600791	.1728118	.2550988
#1	1960.167	983.4780	7998.014	6505.450
#2	1964.035	981.2541	7978.491	6482.023

Sample Name: 500-148287-a-25-a Acquired: 7/13/2018 12:52:42 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018153	23.33524	.4894023	.0324731	.1728681	.0015712	.0016574
Stddev	.0000583	.08469	.0017967	.0003159	.0001551	.0001908	.0015746
%RSD	3.209014	.3629370	.3671205	.9728186	.0897286	12.14048	95.00210
#1	.0018565	23.39512	.4906728	.0326965	.1727584	.0017061	.0027708
#2	.0017741	23.27535	.4881319	.0322497	.1729777	.0014364	.0005440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	262.6527	.0033700	.1354538	.0215482	.0699238	.1048255	57.13988
Stddev	.0925	.0001697	.0005741	.0004526	.0009705	.0004964	.07076
%RSD	.0352020	5.033990	.4238657	2.100497	1.387956	.4735016	.1238364
#1	262.5873	.0032501	.1350479	.0218682	.0706100	.1044746	57.18991
#2	262.7180	.0034900	.1358598	.0212281	.0692375	.1051765	57.08984
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.664598	.0209884	113.8977	2.696702	.0029225	1.562250	.0480451
Stddev	.002970	.0000966	.3004	.001963	.0002347	.000276	.0012078
%RSD	.1114480	.4601903	.2637108	.0727849	8.031720	.0176968	2.513946
#1	2.666698	.0210567	113.6853	2.698090	.0030885	1.562446	.0488992
#2	2.662498	.0209201	114.1101	2.695314	.0027565	1.562055	.0471910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-25-a Acquired: 7/13/2018 12:52:42 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1085090	.0023930	.0030082	1.540649	.0274429	.1580791	1.289439
Stddev	.0036087	.0016253	.0035330	.010464	.0012847	.0001202	.001827
%RSD	3.325712	67.92055	117.4467	.6791624	4.681458	.0760335	.1416751
#1	.1110607	.0035423	.0055064	1.548047	.0283513	.1581641	1.288147
#2	.1059573	.0012437	.0005100	1.533250	.0265344	.1579941	1.290731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.007441	.1067452	.3216396
Stddev	.000340	.0008821	.0013612
%RSD	4.570697	.8263843	.4231955
#1	-.007201	.1061214	.3226020
#2	-.007682	.1073689	.3206771
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1514.950	893.3085	7369.650	6281.587
Stddev	.671	.3899	10.497	19.454
%RSD	.0443119	.0436498	.1424297	.3097022
#1	1514.475	893.5842	7377.072	6267.830
#2	1515.425	893.0328	7362.228	6295.343

Sample Name: 500-148287-a-34-a Acquired: 7/13/2018 12:56:38 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008900	20.00231	.0828093	.0296224	.2330780	.0011907	.0020969
Stddev	.0002533	.09796	.0020301	.0001583	.0005490	.0000307	.0015979
%RSD	28.45866	.4897281	2.451556	.5343296	.2355323	2.574548	76.20310
#1	.0007109	19.93305	.0842448	.0295105	.2326898	.0012124	.0032268
#2	.0010691	20.07158	.0813737	.0297344	.2334661	.0011690	.0009670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	110.2492	.0017189	.0910721	.0170171	.0649436	.2014809	62.86353
Stddev	.4860	.0000594	.0083315	.0001803	.0007831	.0007011	.28812
%RSD	.4408094	3.457419	9.148244	1.059573	1.205756	.3479506	.4583281
#1	110.5929	.0016768	.0851809	.0168896	.0654973	.2009852	63.06727
#2	109.9056	.0017609	.0969634	.0171446	.0643898	.2019766	62.65980
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.966063	.0183967	52.78682	5.327496	.0008028	.6914940	.0317630
Stddev	.019787	.0003955	.02167	.021329	.0006182	.0068283	.0003256
%RSD	1.006406	2.149671	.0410582	.4003565	77.01194	.9874661	1.024971
#1	1.952071	.0181171	52.77150	5.342577	.0012400	.6866657	.0319932
#2	1.980054	.0186764	52.80215	5.312414	.0003656	.6963223	.0315328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-34-a Acquired: 7/13/2018 12:56:38 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0365306	.0016328	.0041753	2.583328	.0202029	.0774024	1.031293
Stddev	.0020671	.0018445	.0019432	.005637	.0000218	.0000130	.003986
%RSD	5.658621	112.9607	46.53870	.2181936	.1078490	.0167868	.3865378
#1	.0350689	.0029370	.0028013	2.579342	.0201875	.0773932	1.034111
#2	.0379923	.0003286	.0055493	2.587313	.0202183	.0774115	1.028474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.003922	.0815105	.2603631
Stddev	.000318	.0004935	.0005430
%RSD	8.114836	.6054175	.2085525
#1	-.004147	.0818595	.2599792
#2	-.003697	.0811616	.2607471
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1616.984	919.3383	7564.595	6329.835
Stddev	2.910	1.7868	2.280	19.272
%RSD	.1799751	.1943581	.0301358	.3044701
#1	1614.926	918.0748	7562.983	6316.207
#2	1619.042	920.6017	7566.207	6343.462

Sample Name: 500-148287-a-35-a Acquired: 7/13/2018 13:00:32 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007639	11.45125	.0232849	.0245915	.0846848	.0009110	-.001149
Stddev	.0000066	.03443	.0035389	.0009416	.0003624	.0003985	.000696
%RSD	.8637544	.3006493	15.19816	3.828802	.4279624	43.74182	60.56827
#1	.0007592	11.42691	.0207826	.0239257	.0844286	.0011928	-.001640
#2	.0007686	11.47560	.0257873	.0252573	.0849411	.0006292	-.000657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	549.6413	.0012486	.0893062	.0134864	.0382099	.0514672	42.66437
Stddev	.3941	.0001625	.0004028	.0000739	.0013873	.0002570	.08584
%RSD	.0716926	13.01271	.4509998	.5478944	3.630821	.4994002	.2011907
#1	549.3627	.0011337	.0895910	.0135386	.0391909	.0516490	42.60367
#2	549.9200	.0013635	.0890214	.0134341	.0372289	.0512855	42.72507
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.718256	.0161729	276.6638	2.502475	.0001157	1.292285	.0295218
Stddev	.001010	.0001207	.4095	.003484	.0000893	.003823	.0015500
%RSD	.0587942	.7464813	.1480115	.1392165	77.15940	.2958594	5.250261
#1	1.717542	.0160875	276.3742	2.500011	.0000526	1.289582	.0284258
#2	1.718971	.0162583	276.9533	2.504938	.0001789	1.294989	.0306178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-35-a Acquired: 7/13/2018 13:00:32 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0176303	.0004709	.0024393	1.637187	.0194052	.1974330	1.017658
Stddev	.0010969	.0031794	.0015446	.001614	.0034137	.0002552	.001174
%RSD	6.221817	675.1077	63.32376	.0986130	17.59153	.1292678	.1153946
#1	.0184060	-.001777	.0035315	1.638329	.0218190	.1976135	1.018488
#2	.0168547	.002719	.0013470	1.636046	.0169914	.1972526	1.016827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.005804	.1039065	.1169258
Stddev	.001583	.0000819	.0003073
%RSD	27.27168	.0788641	.2627859
#1	-.006923	.1039644	.1167085
#2	-.004685	.1038486	.1171431
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1402.715	834.8665	6828.191	6022.687
Stddev	.903	.8634	4.429	8.564
%RSD	.0644038	.1034189	.0648634	.1421894
#1	1402.076	834.2559	6825.059	6028.742
#2	1403.354	835.4770	6831.323	6016.631

Sample Name: 148287-a-35-aSD@5 Acquired: 7/13/2018 13:04:32 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000151	2.289925	.0066544	.0062079	.0173580	.0004997	-.001631
Stddev	.0000173	.006547	.0036718	.0000074	.0000686	.0000435	.001558
%RSD	114.7371	.2859049	55.17734	.1197293	.3949728	8.712164	95.50214
#1	.0000028	2.294555	.0040581	.0062131	.0173095	.0004689	-.002733
#2	.0000273	2.285296	.0092508	.0062026	.0174065	.0005305	-.000530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	118.5049	.0002366	.0078837	.0027392	.0085358	.0116037	9.138794
Stddev	.7390	.0000230	.0025401	.0004375	.0009610	.0004095	.088981
%RSD	.6235993	9.719157	32.21973	15.97317	11.25860	3.528947	.9736666
#1	117.9823	.0002528	.0060876	.0030486	.0092153	.0113141	9.075875
#2	119.0274	.0002203	.0096799	.0024298	.0078562	.0118932	9.201713
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3283976	.0031935	56.00841	.5292995	.0000307	.2647043	.0061619
Stddev	.0050753	.0001291	.04675	.0034247	.0002860	.0010904	.0002258
%RSD	1.545475	4.042859	.0834673	.6470192	932.1944	.4119405	3.665143
#1	.3319864	.0031022	55.97536	.5268779	.0002329	.2654753	.0060022
#2	.3248088	.0032847	56.04147	.5317211	-.000172	.2639332	.0063216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 148287-a-35-aSD@5 Acquired: 7/13/2018 13:04:32 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028992	-.000924	.0035029	.3313384	.0033264	.0417025	.2163193
Stddev	.0021978	.000571	.0037192	.0084460	.0001978	.0004136	.0013992
%RSD	75.80725	61.83108	106.1768	2.549041	5.945899	.9916701	.6468043
#1	.0044533	-.001328	.0008730	.3373106	.0031865	.0414101	.2153299
#2	.0013451	-.000520	.0061328	.3253662	.0034662	.0419949	.2173086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.002047	.0219404	.0254107
Stddev	.001341	.0003721	.0004302
%RSD	65.50012	1.695973	1.692951
#1	-.001099	.0216773	.0251065
#2	-.002995	.0222035	.0257149
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1678.276	917.9279	7408.223	6338.861
Stddev	7.127	5.7311	63.448	19.980
%RSD	.4246760	.6243485	.8564545	.3152006
#1	1673.237	913.8754	7453.088	6324.733
#2	1683.316	921.9803	7363.359	6352.989

Sample Name: 500-148287-a-35-b du Acquired: 7/13/2018 13:08:29 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000079**	**16.27345**	**.0261820**	**.0276382**	**.0935827**	**.0013543**	**.0013230**
Stddev	.000429	.06582	.0011518	.0005718	.0002551	.0002748	.0001645
%RSD	543.7153	.4044350	4.399338	2.068818	.2725585	20.28832	12.43435
#1	-.000382	16.31999	.0253676	.0272339	.0937631	.0011600	.0012066
#2	.000224	16.22691	.0269965	.0280425	.0934024	.0015486	.0014393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**496.6462**	**.0011128**	**.0952710**	**.0151169**	**.0455685**	**.0571743**	**67.50601**
Stddev	3.8019	.0001877	.0114954	.0007495	.0002668	.0001705	.04813
%RSD	.7655052	16.87084	12.06595	4.957979	.5854422	.2981218	.0713047
#1	499.3345	.0012455	.0871426	.0156469	.0457571	.0572949	67.47197
#2	493.9579	.0009800	.1033994	.0145869	.0453798	.0570538	67.54004
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.123854**	**.0203006**	**233.1118**	**2.573481**	**.0009803**	**1.556864**	**.0367969**
Stddev	.000510	.0000357	.1961	.005685	.0002835	.000496	.0012756
%RSD	.0240291	.1759375	.0841024	.2209042	28.92253	.0318449	3.466711
#1	2.124215	.0202754	233.2504	2.577501	.0011808	1.557215	.0358949
#2	2.123494	.0203259	232.9732	2.569461	.0007798	1.556514	.0376989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-35-b du Acquired: 7/13/2018 13:08:29 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0141913	.0013929	.0016350	1.623330	.0179799	.2237895	1.184757
Stddev	.0007431	.0011213	.0008971	.001500	.0008712	.0002824	.003044
%RSD	5.236513	80.50307	54.86846	.0924129	4.845469	.1261770	.2569043
#1	.0136658	.0021857	.0010007	1.624391	.0173638	.2239892	1.182604
#2	.0147168	.0006000	.0022694	1.622269	.0185959	.2235899	1.186909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.004448	.1374695	.1234915
Stddev	.000595	.0013844	.0014532
%RSD	13.37739	1.007090	1.176796
#1	-.004027	.1364906	.1224639
#2	-.004869	.1384485	.1245191
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1417.423	848.0313	6967.011	6039.585
Stddev	2.235	4.5356	27.183	29.198
%RSD	.1577014	.5348362	.3901682	.4834418
#1	1415.842	844.8242	6947.790	6018.939
#2	1419.004	851.2385	6986.233	6060.231

Sample Name: 500-148287-a-35-c ms Acquired: 7/13/2018 13:12:30 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0421977	20.94016	.1117029	.7835424	1.782461	.0442434	.4774469
Stddev	.0004890	.02401	.0020283	.0002024	.002160	.0000431	.0019698
%RSD	1.158884	.1146389	1.815800	.0258271	.1211714	.0975399	.4125639
#1	.0425434	20.95714	.1131371	.7836855	1.780934	.0442739	.4788397
#2	.0418519	20.92319	.1102687	.7833993	1.783988	.0442128	.4760540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	416.2002	.0439977	.1349468	.4711945	.2865532	.2836639	52.45636
Stddev	.3734	.0002061	.0063371	.0000081	.0018296	.0009312	.05327
%RSD	.0897098	.4683646	4.696014	.0017152	.6385042	.3282846	.1015524
#1	416.4642	.0438520	.1394278	.4711888	.2852594	.2830054	52.41869
#2	415.9362	.0441434	.1304658	.4712002	.2878469	.2843224	52.49403
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.89420	.4501710	173.0432	2.891946	.8101711	10.50413	.5192668
Stddev	.04395	.0011350	.0677	.000050	.0003331	.04497	.0040383
%RSD	.3695342	.2521330	.0391407	.0017243	.0411191	.4280893	.7776986
#1	11.92528	.4509736	172.9953	2.891981	.8104067	10.53593	.5164113
#2	11.86312	.4493684	173.0910	2.891910	.8099355	10.47233	.5221223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-35-c ms Acquired: 7/13/2018 13:12:30 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1017045	.3728231	.0667062	4.415612	.9247840	1.033894	2.143728
Stddev	.0006446	.0017526	.0060561	.011733	.0051255	.009418	.006617
%RSD	.6337762	.4700754	9.078816	.2657095	.5542394	.9109033	.3086490
#1	.1012487	.3715839	.0624239	4.423908	.9211597	1.027234	2.139050
#2	.1021603	.3740624	.0709886	4.407316	.9284083	1.040553	2.148407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0715325	.5469898	.5685341
Stddev	.0005672	.0011326	.0002726
%RSD	.7928654	.2070519	.0479510
#1	.0719336	.5461889	.5683414
#2	.0711315	.5477906	.5687269
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1448.239	873.8202	7131.256	6131.289
Stddev	2.860	4.9534	27.175	.148
%RSD	.1974935	.5668623	.3810728	.0024154
#1	1446.217	870.3177	7150.472	6131.184
#2	1450.262	877.3228	7112.041	6131.394

Sample Name: 148287-a-35-d msd Acquired: 7/13/2018 13:16:27 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0420634	24.48372	.1113933	.7686128	1.729473	.0442304	.4828540
Stddev	.0001159	.22738	.0023102	.0027341	.004506	.0007155	.0015949
%RSD	.2755530	.9286937	2.073894	.3557248	.2605415	1.617650	.3303175
#1	.0419815	24.32294	.1130268	.7666795	1.726286	.0447364	.4817262
#2	.0421454	24.64450	.1097598	.7705462	1.732659	.0437245	.4839818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	508.2591	.0433639	.1416371	.4698793	.2098086	.4282262	64.25101
Stddev	6.3563	.0000535	.0015598	.0006133	.0011308	.0001904	.05700
%RSD	1.250604	.1234745	1.101281	.1305211	.5389633	.0444567	.0887108
#1	512.7537	.0433260	.1427401	.4694457	.2090090	.4283608	64.29132
#2	503.7645	.0434017	.1405342	.4703130	.2106082	.4280916	64.21071
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.86063	.4400640	253.7520	3.253767	.7849271	10.32696	.4857700
Stddev	.10535	.0035273	.2990	.007750	.0001464	.08497	.0015990
%RSD	.8882171	.8015539	.1178212	.2381907	.0186565	.8228080	.3291592
#1	11.78614	.4375698	253.9634	3.259247	.7848235	10.26688	.4846394
#2	11.93512	.4425582	253.5406	3.248287	.7850306	10.38705	.4869007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 148287-a-35-d msd Acquired: 7/13/2018 13:16:27 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1007606	.3604667	.0687444	4.265566	.9123463	1.025950	2.780678
Stddev	.0002807	.0013335	.0019288	.049716	.0013004	.000215	.002972
%RSD	.2785323	.3699369	2.805760	1.165512	.1425359	.0209966	.1068763
#1	.1005621	.3595238	.0701082	4.300720	.9114268	1.026102	2.778576
#2	.1009590	.3614096	.0673805	4.230411	.9132658	1.025798	2.782779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0709399	.5953570	.5807416
Stddev	.0017461	.0010009	.0007912
%RSD	2.461336	.1681235	.1362373
#1	.0721746	.5946492	.5801821
#2	.0697053	.5960648	.5813010
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1401.337	859.9661	7059.500	6144.300
Stddev	1.732	.9491	19.115	8.458
%RSD	.1235833	.1103657	.2707706	.1376544
#1	1402.561	860.6372	7045.984	6150.281
#2	1400.112	859.2949	7073.016	6138.320

Sample Name: 500-148287-a-37-a Acquired: 7/13/2018 13:20:30 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010054**	**20.61470**	**.0731761**	**.0339004**	**.1517499**	**.0016073**	**.0018172**
Stddev	.0002599	.04180	.0019806	.0006995	.0003489	.0002346	.0012216
%RSD	25.85121	.2027487	2.706547	2.063561	.2299304	14.59620	67.22615
#1	.0011891	20.64426	.0745766	.0343950	.1515032	.0014414	.0026810
#2	.0008216	20.58515	.0717757	.0334057	.1519967	.0017732	.0009534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**537.3530**	**.0016150**	**.1058098**	**.0184218**	**.0595444**	**.0615240**	**59.04062**
Stddev	2.0938	.0000654	.0036664	.0009124	.0019339	.0001239	.22922
%RSD	.3896463	4.047534	3.465123	4.952793	3.247886	.2013981	.3882381
#1	538.8335	.0015688	.1084024	.0190670	.0581769	.0614364	58.87854
#2	535.8724	.0016612	.1032172	.0177766	.0609119	.0616116	59.20270
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.380558**	**.0348721**	**270.5150**	**4.307957**	**.0007051**	**1.051942**	**.0364073**
Stddev	.003237	.0000343	.5398	.001043	.0001065	.001069	.0019156
%RSD	.1359572	.0984307	.1995485	.0242051	15.10366	.1016218	5.261628
#1	2.382847	.0348478	270.1333	4.307219	.0006298	1.051186	.0377619
#2	2.378270	.0348964	270.8967	4.308694	.0007803	1.052698	.0350528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-37-a Acquired: 7/13/2018 13:20:30 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0218493	.0017416	.0011841	1.996895	.0193198	.2596802	1.366542
Stddev	.0041655	.0015070	.0028514	.007847	.0004404	.0003608	.002257
%RSD	19.06472	86.53072	240.7990	.3929442	2.279451	.1389371	.1651587
#1	.0247947	.0006760	-.000832	2.002443	.0190084	.2594251	1.368138
#2	.0189038	.0028072	.003200	1.991346	.0196312	.2599353	1.364946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.005712	.1342258	.1706075
Stddev	.002657	.0009292	.0004406
%RSD	46.52044	.6922594	.2582671
#1	-.007591	.1348829	.1702960
#2	-.003833	.1335688	.1709191
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1416.193	863.0369	7021.838	6132.913
Stddev	1.332	1.0412	1.619	12.934
%RSD	.0940474	.1206476	.0230514	.2109005
#1	1415.251	862.3006	7022.983	6123.767
#2	1417.135	863.7731	7020.694	6142.059

Sample Name: 500-148287-a-41-a Acquired: 7/13/2018 13:24:32 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009040	17.62589	.0206177	.0311880	.1047228	.0016418	.0016829
Stddev	.0004351	.09776	.0012496	.0004084	.0009472	.0002321	.0006936
%RSD	48.13424	.5546318	6.060603	1.309637	.9044483	14.13733	41.21221
#1	.0005963	17.69502	.0215012	.0314768	.1053925	.0018059	.0021733
#2	.0012117	17.55677	.0197341	.0308991	.1040530	.0014777	.0011925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	447.6100	.0011137	.1548377	.0169159	.0515142	.1056589	53.12886
Stddev	2.7946	.0001444	.0000556	.0004251	.0002464	.0005882	.16395
%RSD	.6243288	12.96576	.0359216	2.512840	.4782430	.5567348	.3085875
#1	449.5860	.0012158	.1548770	.0166154	.0513400	.1052430	53.24479
#2	445.6339	.0010116	.1547984	.0172165	.0516884	.1060749	53.01293
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.476318	.0234290	188.8036	2.600107	.0001383	1.243650	.0417823
Stddev	.015015	.0001520	.6324	.005590	.0001546	.008212	.0013180
%RSD	.6063447	.6488047	.3349627	.2150062	111.7936	.6603506	3.154528
#1	2.486936	.0235365	189.2508	2.604060	.0000290	1.249457	.0408503
#2	2.465701	.0233215	188.3564	2.596154	.0002476	1.237843	.0427143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-41-a Acquired: 7/13/2018 13:24:32 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0155697	.0005863	-.002082	1.786790	.0189649	.2266198	1.391434
Stddev	.0005194	.0008427	.006068	.007132	.0004187	.0002425	.006039
%RSD	3.335900	143.7187	291.4022	.3991491	2.207665	.1070312	.4339852
#1	.0159370	-.000010	-.006373	1.791833	.0186689	.2267913	1.395704
#2	.0152025	.001182	.002208	1.781746	.0192610	.2264483	1.387164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.006071	.1545081	.1178651
Stddev	.001001	.0018653	.0008883
%RSD	16.48721	1.207265	.7536696
#1	-.005363	.1558271	.1184932
#2	-.006778	.1531891	.1172369
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1395.115	829.2112	6954.332	5920.603
Stddev	1.518	3.9978	4.256	36.472
%RSD	.1087776	.4821235	.0612027	.6160112
#1	1396.188	832.0381	6951.323	5894.814
#2	1394.042	826.3843	6957.342	5946.392

Sample Name: 500-148287-a-42-a Acquired: 7/13/2018 13:28:32 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005089	15.58412	.0154577	.0252146	.0905650	.0013095	.0020026
Stddev	.0001348	.26978	.0006189	.0000525	.0011753	.0002890	.0041909
%RSD	26.48063	1.731118	4.003940	.2080107	1.297743	22.06679	209.2719
#1	.0004136	15.77488	.0158953	.0252517	.0913961	.0011052	.0049660
#2	.0006042	15.39335	.0150201	.0251775	.0897339	.0015139	-.000961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	387.1823	.0012324	.1006071	.0166447	.0416151	.0602517	50.17959
Stddev	3.4880	.0002113	.0041848	.0003623	.0005388	.0004582	.50830
%RSD	.9008579	17.14810	4.159554	2.176903	1.294773	.7605471	1.012963
#1	389.6486	.0010830	.1035662	.0169009	.0412341	.0605757	50.53901
#2	384.7159	.0013818	.0976480	.0163885	.0419961	.0599277	49.82017
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.977923	.0232499	160.2575	2.322816	.0012117	.9752668	.0414543
Stddev	.040048	.0005891	2.1091	.019329	.0007183	.0202412	.0001499
%RSD	2.024755	2.533766	1.316041	.8321390	59.27885	2.075450	.3615352
#1	2.006242	.0236665	161.7488	2.336484	.0007038	.9895795	.0415603
#2	1.949605	.0228334	158.7662	2.309149	.0017196	.9609541	.0413483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-42-a Acquired: 7/13/2018 13:28:32 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139411	.0008020	.0039030	1.286501	.0186083	.2202019	1.276947
Stddev	.0033632	.0011799	.0002799	.019636	.0013031	.0002392	.001809
%RSD	24.12463	147.1237	7.170878	1.526272	7.002874	.1086288	.1416329
#1	.0163193	.0016363	.0041009	1.300386	.0176869	.2203711	1.278225
#2	.0115629	-.000032	.0037051	1.272617	.0195297	.2200328	1.275668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.001876	.1206426	.1139010
Stddev	.000126	.0001377	.0003464
%RSD	6.702294	.1141065	.3041021
#1	-.001965	.1207399	.1136561
#2	-.001787	.1205452	.1141460
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1432.199	840.2612	7004.554	5907.160
Stddev	1.821	.6127	26.707	62.587
%RSD	.1271533	.0729228	.3812787	1.059505
#1	1433.486	840.6944	6985.670	5862.905
#2	1430.911	839.8279	7023.439	5951.416

Sample Name: CCV Acquired: 7/13/2018 13:32:29 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4569840**	**47.78773**	**.4757349**	**.4743492**	**.4632630**	**.4697828**	**.4865182**
Stddev	.0022377	.17607	.0001142	.0024165	.0032003	.0021453	.0025574
%RSD	.4896751	.3684447	.0240144	.5094363	.6908158	.4566621	.5256551
#1	.4585663	47.66323	.4756541	.4726405	.4610000	.4682658	.4847099
#2	.4554016	47.91223	.4758157	.4760579	.4655260	.4712997	.4883266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.05165**	**.4740868**	**-.017798**	**.4902982**	**.4570317**	**.4731056**	**24.22663**
Stddev	.09125	.0000526	.001217	.0004266	.0016101	.0002852	.05159
%RSD	.3794039	.0111040	6.835083	.0870144	.3522864	.0602805	.2129438
#1	23.98712	.4740496	-.016938	.4899965	.4581702	.4733072	24.26310
#2	24.11617	.4741241	-.018658	.4905998	.4558932	.4729039	24.19015
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**47.37784**	**3.710737**	**23.47480**	**4.537029**	**.4543102**	**23.54487**	**.4866374**
Stddev	.46820	.041490	.10710	.018362	.0012939	.32137	.0015053
%RSD	.9882220	1.118104	.4562249	.4047237	.2847948	1.364947	.3093158
#1	47.04677	3.681400	23.39907	4.524045	.4533953	23.31762	.4855730
#2	47.70890	3.740075	23.55053	4.550013	.4552250	23.77211	.4877017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 7/13/2018 13:32:29 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4850644	.4628428	.4630848	.4789002	.4963681	.4630018	.4628915
Stddev	.0026432	.0042965	.0005252	.0006971	.0005680	.0007744	.0008310
%RSD	.5449133	.9282862	.1134100	.1455654	.1144349	.1672487	.1795282
#1	.4869334	.4598047	.4634562	.4793931	.4967697	.4635493	.4634791
#2	.4831954	.4658809	.4627135	.4784073	.4959664	.4624542	.4623039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.4616037	4.557321	.5056119
Stddev	.0010568	.009368	.0034466
%RSD	.2289316	.2055503	.6816789
#1	.4608565	4.563945	.5080490
#2	.4623509	4.550697	.5031747
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1636.022	913.2330	7507.040	6244.116
Stddev	13.201	8.7669	18.640	57.556
%RSD	.8069023	.9599881	.2482984	.9217708
#1	1645.356	919.4322	7493.860	6284.815
#2	1626.687	907.0339	7520.220	6203.418

Sample Name: CCB Acquired: 7/13/2018 13:36:21 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003599	.0208926	.0001913	.0016255	-.000101	.0003628	.0007424
Stddev	.0002220	.0036670	.0012918	.0006791	.000016	.0000369	.0008295
%RSD	61.68957	17.55154	675.3724	41.77493	16.10392	10.16815	111.7266
#1	.0005169	.0182997	-.000722	.0011454	-.000089	.0003888	.0001559
#2	.0002029	.0234855	.001105	.0021057	-.000112	.0003367	.0013289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002747	-.000094	-.015435	.0001434	.0004537	.0012291	-.021203
Stddev	.001766	.000143	.004651	.0001922	.0001489	.0001854	.030108
%RSD	64.28897	151.7215	30.13054	134.0509	32.82053	15.08179	141.9957
#1	-.003996	.000007	-.012147	.0002793	.0005590	.0010980	-.042493
#2	-.001498	-.000195	-.018724	.0000075	.0003484	.0013601	.000086
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004689	.0005151	-.016980	-.000268	.0002182	.0039254	.0014699
Stddev	.007355	.0000559	.007448	.000054	.0003098	.0008308	.0011268
%RSD	156.8511	10.85917	43.86531	20.28865	141.9604	21.16388	76.66399
#1	.000512	.0004755	-.011713	-.000230	.0004373	.0033379	.0022666
#2	-.009891	.0005546	-.022246	-.000307	-.000001	.0045128	.0006731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/13/2018 13:36:21 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024052	-.000461	-.001189	.0015372	.0005701	.0000287	.0001155
Stddev	.0019559	.000865	.002362	.0005796	.0006829	.0000085	.0001528
%RSD	81.31721	187.5633	198.5958	37.70723	119.7711	29.57630	132.2771
#1	.0037882	-.001073	-.002860	.0019470	.0000873	.0000347	.0002236
#2	.0010222	.000150	.000481	.0011273	.0010530	.0000227	.0000075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0005029	.0000880	-.000323
Stddev	.0001686	.0004532	.000105
%RSD	33.53418	515.2399	32.59507
#1	.0006221	-.000233	-.000398
#2	.0003836	.000408	-.000249
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1908.962	941.9337	7789.395	6316.913
Stddev	1.907	3.2801	57.154	27.109
%RSD	.0998860	.3482304	.7337457	.4291420
#1	1910.310	944.2531	7829.809	6336.081
#2	1907.614	939.6143	7748.980	6297.744

Sample Name: 500-148287-a-45-a Acquired: 7/13/2018 13:40:25 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005046	16.78625	.0159665	.0299118	.0531240	.0015853
Stddev	.0001494	.09592	.0035125	.0000892	.0002298	.0001331
%RSD	29.60767	.5714228	21.99898	.2983580	.4326036	8.397887
#1	.0006102	16.85408	.0184502	.0299749	.0532865	.0016794
#2	.0003989	16.71842	.0134828	.0298487	.0529615	.0014911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043877	F 643.2025	.0008796	.1141522	.0212238	.0510639
Stddev	.0004112	10.1203	.0003691	.0103460	.0006610	.0012333
%RSD	9.371541	1.573424	41.96417	9.063360	3.114604	2.415279
#1	.0040970	636.0463	.0006186	.1214680	.0207564	.0501918
#2	.0046785	650.3586	.0011406	.1068365	.0216912	.0519360
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0996011	52.15878	2.185807	.0241801	287.9156	1.792902
Stddev	.0005890	.00573	.004675	.0002080	.9003	.006503
%RSD	.5913435	.0109806	.2138785	.8602503	.3126872	.3627173
#1	.0991846	52.16283	2.182501	.0243272	288.5522	1.797501
#2	.1000175	52.15473	2.189113	.0240330	287.2790	1.788304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148287-a-45-a Acquired: 7/13/2018 13:40:25 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003653	1.674835	.0608898	.0092841	.0034745	.0017786
Stddev	.0000910	.016814	.0013620	.0003599	.0011825	.0021548
%RSD	24.91240	1.003924	2.236831	3.876113	34.03464	121.1509
#1	.0003009	1.686725	.0618529	.0095385	.0026383	.0002549
#2	.0004296	1.662946	.0599267	.0090296	.0043106	.0033022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.174881	.0169076	.3467026	1.653766	-.007820	.1683264
Stddev	.000036	.0008895	.0005191	.003570	.001496	.0014901
%RSD	.0030613	5.260942	.1497331	.2158986	19.13060	.8852605
#1	1.174855	.0175366	.3470697	1.656291	-.006762	.1693800
#2	1.174906	.0162787	.3463355	1.651242	-.008878	.1672727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0893680
Stddev	.0015019
%RSD	1.680577
#1	.0883060
#2	.0904300
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148287-a-45-a Acquired: 7/13/2018 13:40:25 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1318.608	793.5630	6682.627	5824.820
Stddev	.428	3.6186	35.646	26.994
%RSD	.0324957	.4559950	.5334107	.4634264
#1	1318.911	791.0043	6657.422	5805.733
#2	1318.305	796.1217	6707.832	5843.907

Sample Name: 500-148287-a-46-a Acquired: 7/13/2018 13:44:28 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000405	19.38536	.0335495	.0306417	.0560019	.0019263
Stddev	.0004388	.06166	.0056883	.0002421	.0003978	.0002316
%RSD	1083.031	.3180614	16.95502	.7901300	.7103721	12.02355
#1	-.000270	19.42896	.0375718	.0304705	.0562832	.0017625
#2	.000351	19.34176	.0295273	.0308129	.0557206	.0020901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023708	F 650.6556	.0008994	.1524783	.0198597	.0498788
Stddev	.0006629	.8698	.0005759	.0045424	.0002860	.0001484
%RSD	27.95968	.1336765	64.03183	2.979070	1.439884	.2975935
#1	.0028395	651.2706	.0004922	.1492663	.0200619	.0497739
#2	.0019021	650.0406	.0013067	.1556902	.0196575	.0499838
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0760016	56.94044	2.592357	.0321339	260.5337	1.835132
Stddev	.0003352	.35801	.043323	.0006105	.4362	.009227
%RSD	.4410111	.6287368	1.671168	1.900010	.1674167	.5028023
#1	.0762386	56.68730	2.622991	.0325656	260.2253	1.828608
#2	.0757646	57.19359	2.561723	.0317021	260.8422	1.841657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148287-a-46-a Acquired: 7/13/2018 13:44:28 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006831	1.558114	.0444977	.0125326	-.001898	.0081304
Stddev	.0003106	.027526	.0008190	.0014073	.001909	.0015156
%RSD	45.46567	1.766611	1.840557	11.22933	100.5616	18.64166
#1	.0009027	1.577578	.0450769	.0135277	-.000548	.0092021
#2	.0004635	1.538651	.0439186	.0115375	-.003248	.0070586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.144017	.0205726	.4522022	1.600806	-.005362	.1584377
Stddev	.002561	.0002144	.0000701	.004137	.001551	.0003796
%RSD	.2238344	1.042316	.0154935	.2584508	28.93236	.2395683
#1	1.142207	.0207242	.4522518	1.597881	-.006459	.1581694
#2	1.145828	.0204209	.4521527	1.603732	-.004265	.1587061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.0922754
Stddev	.0008898
%RSD	.9642635
#1	.0916462
#2	.0929045
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148287-a-46-a Acquired: 7/13/2018 13:44:28 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1319.633	798.8214	6731.911	5827.618
Stddev	7.049	5.7889	19.421	57.434
%RSD	.5341393	.7246821	.2884915	.9855463
#1	1324.617	802.9148	6718.178	5787.006
#2	1314.649	794.7280	6745.644	5868.230

Sample Name: 500-148287-a-48-a Acquired: 7/13/2018 13:48:28 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010954	20.87877	.7218137	.0307168	.2064862	.0011584	.0003474
Stddev	.0003205	.06782	.0003673	.0005039	.0003510	.0002405	.0038874
%RSD	29.25557	.3248445	.0508916	1.640368	.1699862	20.75849	1119.122
#1	.0008688	20.92673	.7215540	.0303605	.2067344	.0009883	-.002401
#2	.0013220	20.83081	.7220735	.0310731	.2062380	.0013284	.003096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	142.7464	.0035074	.0940869	.0161651	.0591549	.0528276	54.38752
Stddev	1.1957	.0002298	.0098436	.0000476	.0022828	.0007323	.13604
%RSD	.8376421	6.552189	10.46226	.2945570	3.858977	1.386137	.2501240
#1	141.9009	.0036699	.0871264	.0161988	.0607691	.0533454	54.29133
#2	143.5919	.0033449	.1010474	.0161314	.0575408	.0523098	54.48371
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.145343	.0201777	70.67477	3.935436	.0008141	1.571333	.0282383
Stddev	.005613	.0006783	.05092	.013281	.0001384	.000414	.0010309
%RSD	.2616226	3.361576	.0720468	.3374784	17.00585	.0263363	3.650869
#1	2.149311	.0206574	70.71078	3.926044	.0009120	1.571041	.0275093
#2	2.141374	.0196981	70.63877	3.944827	.0007162	1.571626	.0289673
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-148287-a-48-a Acquired: 7/13/2018 13:48:28 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0346276	.0020734	.0063685	1.772834	.0191741	.0887947	1.016108
Stddev	.0011449	.0001355	.0017806	.001374	.0015253	.0016958	.023529
%RSD	3.306290	6.537605	27.95992	.0774911	7.955128	1.909752	2.315579
#1	.0338180	.0021693	.0051094	1.773806	.0180955	.0899938	1.032745
#2	.0354371	.0019776	.0076276	1.771863	.0202526	.0875956	.999470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.005519	.0783326	.2107821
Stddev	.002136	.0029660	.0017290
%RSD	38.69378	3.786381	.8202694
#1	-.004009	.0804298	.2095596
#2	-.007030	.0762353	.2120047
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1523.815	861.0417	7336.752	6103.232
Stddev	1.782	.3149	45.475	15.592
%RSD	.1169308	.0365767	.6198279	.2554661
#1	1525.075	860.8190	7304.596	6092.207
#2	1522.555	861.2644	7368.908	6114.257

Sample Name: 500-148287-a-51-a Acquired: 7/13/2018 13:52:23 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010862	21.26352	.0233573	.0297992	.1063444	.0016329
Stddev	.0003548	.13848	.0068455	.0002938	.0001444	.0002209
%RSD	32.67015	.6512686	29.30751	.9860287	.1358174	13.52688
#1	.0008352	21.16560	.0281978	.0300070	.1064465	.0014767
#2	.0013371	21.36144	.0185169	.0295914	.1062422	.0017891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045031	F 631.9521	.0010358	.1225855	.0185762	.0679098
Stddev	.0010878	5.7515	.0000602	.0005674	.0003415	.0004526
%RSD	24.15724	.9101087	5.812153	.4628966	1.838361	.6665319
#1	.0052723	636.0190	.0009932	.1221843	.0183347	.0682298
#2	.0037339	627.8852	.0010784	.1229868	.0188177	.0675897
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0734101	60.02293	2.880160	.0379424	305.6059	3.129951
Stddev	.0005504	.18543	.008953	.0003418	.7595	.009767
%RSD	.7498212	.3089257	.3108454	.9007657	.2485108	.3120555
#1	.0737993	59.89182	2.886490	.0381840	305.0689	3.123045
#2	.0730209	60.15405	2.873829	.0377007	306.1430	3.136858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-148287-a-51-a Acquired: 7/13/2018 13:52:23 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003131	1.316894	.0461884	.0172194	.0013293	.0045161
Stddev	.0003412	.011788	.0022018	.0011042	.0002877	.0000011
%RSD	109.0000	.8951066	4.766950	6.412296	21.64425	.0242057
#1	.0000718	1.325229	.0446315	.0180001	.0015328	.0045153
#2	.0005544	1.308559	.0477452	.0164386	.0011259	.0045169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.604250	.0178627	.3521362	1.637869	-.004464	.1569171
Stddev	.016060	.0009742	.0005848	.001758	.000873	.0014642
%RSD	1.001100	5.453664	.1660757	.1073380	19.55356	.9330990
#1	1.615607	.0171739	.3517227	1.639112	-.003847	.1579524
#2	1.592894	.0185516	.3525498	1.636626	-.005081	.1558817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Zn2062
Units	ppm
Avg	.1345852
Stddev	.0001399
%RSD	.1039558
#1	.1344863
#2	.1346841
Check ?	Chk Pass
High Limit	
Low Limit	

Sample Name: 500-148287-a-51-a Acquired: 7/13/2018 13:52:23 Type: Unk
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1313.010	792.1087	6698.687	5827.965
Stddev	7.624	10.3331	3.711	5.529
%RSD	.5806178	1.304501	.0554064	.0948749
#1	1307.620	784.8021	6701.312	5824.056
#2	1318.401	799.4152	6696.063	5831.875

Sample Name: CCV Acquired: 7/13/2018 13:56:24 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4560027	48.15227	.4799444	.4750588	.4660873	.4693392	.4876892
Stddev	.0022900	.08979	.0011108	.0002703	.0018080	.0020601	.0003413
%RSD	.5021984	.1864640	.2314343	.0568980	.3879189	.4389431	.0699872
#1	.4543834	48.08878	.4791589	.4748677	.4648088	.4678824	.4874478
#2	.4576220	48.21576	.4807298	.4752499	.4673658	.4707959	.4879305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.84417	.4748617	-.024359	.4886958	.4585465	.4736560	24.09562
Stddev	.05164	.0005370	.008041	.0005224	.0006259	.0015747	.01912
%RSD	.2165876	.1130919	33.00986	.1069023	.1364987	.3324645	.0793571
#1	23.80765	.4744820	-.030045	.4890652	.4581039	.4725425	24.08210
#2	23.88069	.4752414	-.018673	.4883264	.4589891	.4747695	24.10914
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	48.10944	3.771899	23.43607	4.511763	.4570081	23.65119	.4864860
Stddev	.19161	.015203	.05893	.009332	.0015455	.02282	.0003928
%RSD	.3982853	.4030540	.2514544	.2068386	.3381701	.0964822	.0807459
#1	47.97395	3.761149	23.39440	4.505164	.4559153	23.63506	.4862083
#2	48.24493	3.782649	23.47774	4.518362	.4581009	23.66733	.4867638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 7/13/2018 13:56:24 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4862693	.4578737	.4669744	.4806271	.4896120	.4642852	.4592590
Stddev	.0017435	.0002742	.0034995	.0016148	.0019110	.0016249	.0005344
%RSD	.3585459	.0598843	.7493988	.3359749	.3902980	.3499812	.1163554
#1	.4850365	.4576799	.4644998	.4794853	.4909632	.4631363	.4588812
#2	.4875022	.4580676	.4694489	.4817689	.4882607	.4654342	.4596369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.4594938	4.518516	.5051997
Stddev	.0020549	.008687	.0002525
%RSD	.4472127	.1922436	.0499854
#1	.4609469	4.512374	.5050211
#2	.4580408	4.524659	.5053782
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1624.968	903.5859	7421.397	6224.405
Stddev	4.967	4.3535	9.431	26.470
%RSD	.3056631	.4817992	.1270788	.4252607
#1	1628.480	906.6642	7428.065	6243.122
#2	1621.456	900.5075	7414.728	6205.688

Sample Name: CCB Acquired: 7/13/2018 14:00:13 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008249	.0115227	.0001616	.0014241	-.000103	.0002263	-.000289
Stddev	.0000787	.0094860	.0001005	.0005250	.000046	.0003742	.000400
%RSD	9.537456	82.32445	62.22615	36.86697	44.96282	165.3898	138.4734
#1	.0008805	.0048151	.0000905	.0017954	-.000136	.0004909	-.000006
#2	.0007693	.0182303	.0002326	.0010528	-.000070	-.000038	-.000572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Ce4040	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004177	.0001227	-.015379	-.000200	.0001060	.0012324	.0248479
Stddev	.002644	.0001449	.005431	.000445	.0009510	.0002509	.0250974
%RSD	63.29341	118.1161	35.31506	222.9384	897.1760	20.36141	101.0041
#1	-.006047	.0002252	-.011539	-.000514	-.000566	.0010550	.0425944
#2	-.002308	.0000202	-.019219	.000115	.000778	.0014098	.0071014
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.013214	.0004159	-.026854	-.000140	.0002741	.0038172	.0008569
Stddev	.004360	.0001587	.020509	.000128	.0000432	.0006659	.0004064
%RSD	32.99431	38.16837	76.37260	91.31498	15.75076	17.44474	47.43379
#1	-.016297	.0005281	-.012352	-.000050	.0003046	.0033464	.0005695
#2	-.010131	.0003036	-.041356	-.000231	.0002435	.0042881	.0011443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 7/13/2018 14:00:13 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006749	-.000386	.0049180	.0018947	-.000750	.0000292	.0001080
Stddev	.0007785	.000213	.0001082	.0002531	.001372	.0000035	.0001318
%RSD	115.3545	55.22946	2.199118	13.35733	182.9450	12.14274	122.0675
#1	.0001244	-.000536	.0049945	.0017157	.000220	.0000267	.0000148
#2	.0012254	-.000235	.0048415	.0020736	-.001720	.0000317	.0002011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.000452	-.000313	.0000074
Stddev	.001337	.000263	.0005630
%RSD	296.0281	84.00687	7625.666
#1	.000494	-.000127	-.000391
#2	-.001397	-.000499	.000405
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1896.512	932.4713	7771.626	6409.116
Stddev	1.753	1.1676	20.348	96.988
%RSD	.0924457	.1252198	.2618187	1.513276
#1	1895.272	933.2970	7757.238	6477.697
#2	1897.751	931.6457	7786.014	6340.535

Sample Name: CCVL Acquired: 7/13/2018 14:04:15 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048174	.2048970	.0095472	.0491986	.0095798	.0042511
Stddev	.0001551	.0002516	.0015050	.0001541	.0000857	.0000504
%RSD	3.218590	.1227991	15.76339	.3131609	.8947445	1.186021
#1	.0049270	.2047191	.0084831	.0490897	.0096404	.0042155
#2	.0047077	.2050749	.0106114	.0493076	.0095192	.0042868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Ce4040	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0473093	.1744905	.0020251	-.017019	.0048738	.0092465
Stddev	.0014159	.0007267	.0002198	.007935	.0003042	.0003480
%RSD	2.992780	.4164947	10.85135	46.62617	6.242210	3.763490
#1	.0483105	.1750044	.0021805	-.011408	.0046587	.0094926
#2	.0463082	.1739767	.0018698	-.022630	.0050890	.0090004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value						
Range						

Elem	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108832	.2078669	.4878332	.0103757	F .0692268	.0084612
Stddev	.0000291	.0111080	.0025927	.0000253	.0041021	.0002556
%RSD	.2676568	5.343796	.5314695	.2442080	5.925580	3.021181
#1	.0108626	.2157214	.4896665	.0103578	.0721274	.0086420
#2	.0109038	.2000124	.4859999	.0103937	.0663262	.0082805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					.1000000	
Range					-30.0000%	

Sample Name: CCVL Acquired: 7/13/2018 14:04:15 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093769	.9870643	.0095442	.0046011	.0183001	.0115398
Stddev	.0001347	.0019141	.0000766	.0004635	.0001256	.0017828
%RSD	1.436929	.1939202	.8020548	10.07305	.6862480	15.44894
#1	.0094722	.9857109	.0095983	.0049289	.0183889	.0128004
#2	.0092817	.9884178	.0094901	.0042734	.0182113	.0102792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1865506	.0383282	.0049565	.0047531	.0090887	.0043641
Stddev	.0004156	.0000993	.0000225	.0002832	.0010961	.0002246
%RSD	.2227801	.2590625	.4534951	5.957782	12.05963	5.145756
#1	.1862568	.0382580	.0049406	.0049533	.0098638	.0042053
#2	.1868445	.0383984	.0049724	.0045528	.0083137	.0045228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Zn2062
Units	ppm
Avg	.0189315
Stddev	.0001994
%RSD	1.053397
#1	.0187905
#2	.0190725
Check ?	Chk Pass
Value	
Range	

Sample Name: CCVL Acquired: 7/13/2018 14:04:15 Type: QC
Method: P8071318A Mode: CONC Corr. Factor: 1.000000
User: FILIPJ Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1877.547	931.7017	7753.337	6303.475
Stddev	4.471	.9620	31.902	24.087
%RSD	.2381081	.1032479	.4114553	.3821173
#1	1874.386	931.0215	7775.895	6286.443
#2	1880.708	932.3819	7730.780	6320.506

General Chemistry Worksheet

Batch Number: 500-440674
Method: Moisture
Analyst: Nelson, Larry W

Date Open: Jul 12 2018 2:13PM
Batch End: Jul 13 2018 7:40AM

Lab ID	Client ID	Method Chain	Basis	Dish ID	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
500-148287-A-1	SD012-0.64/1.04-2018			79	1.04 g	13.68 g	11.36 g
500-148287-A-2	SD015-0.0/0.09-2018	Moisture	T	80	1.04 g	13.88 g	8.68 g
500-148287-A-3	SD015-0.0/0.09-2018/D			81	1.06 g	14.25 g	8.47 g
500-148287-A-4	SD015-0.09/0.68-2018			82	1.05 g	13.74 g	11.71 g
500-148287-A-5	SD010-0.0/0.4-2018	Moisture	T	83	1.06 g	14.25 g	8.70 g
500-148287-A-6	SD010-0.4/0.9-2018			84	1.03 g	12.66 g	10.89 g
500-148287-A-7	SD013-0.0/0.05-2018	Moisture	T	85	1.06 g	12.22 g	8.80 g
500-148287-A-7~DU		Moisture	T	86	1.06 g	12.51 g	9.13 g
500-148287-A-8	SD013-0.5/1.0-2018			87	1.04 g	14.56 g	11.46 g
500-148287-A-9	SD013-1.0/1.5-2018			88	1.04 g	12.15 g	10.47 g
500-148287-A-10	SD013-1.5/2.0-2018			89	1.02 g	12.25 g	10.63 g
500-148287-A-11	SD013-2.0/2.3-2018			90	1.05 g	12.71 g	11.01 g
500-148287-A-12	SD004-0.0/0.1-2018	Moisture	T	91	1.04 g	14.92 g	12.13 g
500-148287-A-13	SD004-0.0/0.1-2018/D	Moisture	T	92	1.01 g	14.06 g	11.76 g
500-148287-A-14	SD004-0.1/0.65-2018			93	1.03 g	12.28 g	10.70 g
500-148287-A-15	SD009-0.0/0.3-2018	Moisture	T	94	1.03 g	12.92 g	5.39 g
500-148287-A-16	SD009-0.0/0.3-2018/D			95	1.03 g	13.56 g	5.76 g
500-148287-A-17	SD009-0.3/0.8-2018			96	1.05 g	13.34 g	8.49 g
500-148287-A-18	SD009-0.8/1.3-2018			97	1.03 g	13.50 g	7.58 g
500-148287-A-19	SD009-1.3/1.8-2018			98	1.02 g	13.55 g	6.80 g
500-148287-A-20	SD009-1.8/2.3-2018			99	1.04 g	13.13 g	7.68 g

Balance ID:	C-971
Oven ID:	C-0776
Thermometer ID:	YELLOW
Date samples were placed in the oven:	07/12/2018
Time samples were place in the oven:	14:13
Temperature - Start - Uncorrected:	106.0 Degrees C
Oven Temp In:	104.2 Degrees C
Date samples were removed from oven:	07/13/2018
Time Samples were removed from oven:	07:40
Temperature - End - Uncorrected:	107.0 Degrees C
Oven Temp Out:	105.2 Degrees C

TestAmerica Chicago
TCLP Extraction Logbook

Page Number: _____

Rotator RPM:30 ± 2 RPMs ID#: L2393 Extr. Start Date 7/13/18 Time 1321 Temp: Uncorrected 22 Corrected 22 °C Filtration Start Time: 1320

Group Number: T325 Extr. End Date 7/14/18 Time 0721 Temp: Uncorrected 22 Corrected 22 °C Filtration End Time: 1400

LIMS Batch No.: 440847/440849 Min.Temp: Uncorrected/Corrected 21.5/21.5 °C Max.Temp: Uncorrected/Corrected 22/22.5 °C Filter Paper Lot #: 111305-8157

Sample Size Specifications: ____<9.5 mm___ Control Limits: 10 ± 5 PSI; 23 ± 2 °C Thermometer ID: C0042

Sample Type (Circle): TCLV SPLP (TCLP) ASTM

Sample Number	LB	LB2	500-147844-1	-2	-4
Sample Description	Extraction Fluid #1	Extraction Fluid #2	solid		
Sample Weight (g)	N/A →	→	100.10	100.34	20.03
Liquid-Solid Separation (Yes/No)	No →	→	→	→	→
Volume of Mother Liquid (mLs)	N/A →	→	→	→	→
Solid Extraction Material (g)	N/A →	→	100.10	100.34	20.03
Extraction Fluid Selection pH of Initial Solution: If <5.0, use Extraction Fluid #1	N/A →	→	6.90	8.07	9.13
pH of Acid/Heat Treated Solution: If <5.0, use Extraction Fluid #1 If >5.0, use Extraction Fluid #2	4.88	2.86	2.22	2.14	1.90
Extraction Fluid Type (1 or 2)	1	2	1 →	→	→
Extraction Vessel Type / Pressure Check	HDPE →	→	→	→	→
Extraction Fluid Volume (mLs)	2000 →	→	→	→	400
Extract Filtered (Yes or No)	Yes →	→	→	→	→
Mother Liquid Added (mLs)	N/A →	→	→	→	→
Combined Filtrate Volume (mLs)	250 →	→	→	→	→
Final pH Reading	4.87	3.13	5.61	6.08	6.66
Spike Source ID # / Volume Added (mLs)	N/A →	→	→	→	→
Filtrate Preserved	Yes →	→	→	→	→
ZHE: Initial psi / Final psi	N/A →	→	→	→	→

Comments: _____

Extraction Vessel Codes: T = Teflon Organics/Metals ZHE = Zero Headspace VOA's HDPE = High Density Polyethylene (Lot # 0229001x) Metals

Date: 7/13/18

Rotator RPM:30 ± 2 RPMs ID#: L2393 Extr. Start Date 7/13/18 Time 1321 Temp: Uncorrected 22 Corrected 22 °C Filtration Start Time: 1320
Group Number: T325 Extr. End Date 7/14/18 Time 0721 Temp: Uncorrected 22 Corrected 22 °C Filtration End Time: 1400
Min.Temp: Uncorrected/Corrected 21.5/21.5 °C Max.Temp: Uncorrected/Corrected 22/22.5 °C Filter Paper Lot #: 111305-8157

Extraction Vessel Codes: T = Teflon Organics/Metals ZHE = Zero Headspace VOA's HDPE = High Density Polyethylene (Lot # 0229001X) Metals
Analyst: [signature] Date: 7/13/18

TCLP Extraction Logbook

Rotator RPM: 30 ± 2 RPMs ID#: 62393 Extr. Start Date 7/13/18 Time 1321 Temp: Uncorrected 22 Corrected 22 °C Filtration Start Time: 1320

Group Number: T325 Extr. End Date 7/14/18 Time 0721 Temp: Uncorrected 22 Corrected 22 °C Filtration End Time: 1400

LIMS Batch No.: 440847/440849 Min.Temp: Uncorrected/Corrected 21/21.5 °C Max.Temp: Uncorrected/Corrected 22/22.5 °C Filter Paper Lot #: 111305-8157

Sample Size Specifications: <9.5 mm Control Limits: 10 ± 5 PSI; 23 ± 2 °C Thermometer ID: 60042

Sample Type (Circle): TCLV SPLP (TCLP) ASTM

Sample Number	500-147844-11	-18	-19	-28	500-148332-1
Sample Description	Solid	→	→	→	→
Sample Weight (g)	100.30	100.48	100.24	100.21	100.18
Liquid-Solid Separation (Yes/No)	No	→	→	→	→
Volume of Mother Liquid (mLs)	N/A	→	→	→	→
Solid Extraction Material (g)	100.30	100.48	100.24	100.21	100.18
Extraction Fluid Selection pH of Initial Solution: If <5.0, use Extraction Fluid #1	10.00	9.74	9.63	9.61	9.94
pH of Acid/Heat Treated Solution: If <5.0, use Extraction Fluid #1 If >5.0, use Extraction Fluid #2	3.55	2.13	1.95	2.51	2.36
Extraction Fluid Type (1 or 2)	1	→	→	→	→
Extraction Vessel Type / Pressure Check	HDPE	→	→	→	→
Extraction Fluid Volume (mLs)	2000	→	→	→	→
Extract Filtered (Yes or No)	Yes	→	→	→	→
Mother Liquid Added (mLs)	N/A	→	→	→	→
Combined Filtrate Volume (mLs)	250	→	→	→	→
Final pH Reading	6.60	6.24	6.12	5.84	6.25
Spike Source ID # / Volume Added (mLs)	N/A	→	→	→	→
Filtrate Preserved	Yes m	→	→	→	→
ZHE: Initial psi / Final psi	N/A	→	→	→	→

Comments:

Extraction Vessel Codes: T = Teflon Organics/Metals ZHE = Zero Headspace VOA's HDPE = High Density Polyethylene (Lot # 0229001X) Metals

Analyst: [signature] Date: 7/13/18

Reviewer: [signature] Date: 7/17/18

CHI-22-15-003/P-12/15

TestAmerica Chicago
TCLP Extraction Logbook

Page Number: _____

Rotator RPM:30 ± 2 RPMs ID#: C2393 Extr. Start Date 7/13/18 Time 1321 Temp: Uncorrected 22 Corrected 22 °C Filtration Start Time: 1320
Group Number: T325 Extr. End Date 7/14/18 Time 0721 Temp: Uncorrected 22 Corrected 22 °C Filtration End Time: 1400
LIMS Batch No.: 440847/440849 Min.Temp: Uncorrected/Corrected 21.5/21.5 °C Max.Temp: Uncorrected/Corrected 22/22.5 °C Filter Paper Lot #: 111385-8157
Sample Size Specifications: ____ <9.5 mm ____ Control Limits: 10 ± 5 PSI; 23 ± 2 °C Thermometer ID: C0042
Sample Type (Circle): TCLV SPLP (TCLP) ASTM

Sample Number	500-148332-2	500-148287-56	500-148287-57	500-148299-1	500-148365-1
Sample Description	Solid	→	→	→	→
Sample Weight (g)	100.20	100.19	100.45	100.07	100.18
Liquid-Solid Separation (Yes/No)	No	→	→	→	→
Volume of Mother Liquid (mLs)	N/A	→	→	→	→
Solid Extraction Material (g)	100.20	100.19	100.45	100.07	100.18
Extraction Fluid Selection pH of Initial Solution: If <5.0, use Extraction Fluid #1	10.30	9.24	8.54	11.50	8.72
pH of Acid/Heat Treated Solution: If <5.0, use Extraction Fluid #1 If >5.0, use Extraction Fluid #2	2.13	2.33	2.09	6.55	1.83
Extraction Fluid Type (1 or 2)	1	→	→	2	1
Extraction Vessel Type / Pressure Check	HDPE	→	→	→	→
Extraction Fluid Volume (mLs)	2000	→	→	→	→
Extract Filtered (Yes or No)	Yes	→	→	→	→
Mother Liquid Added (mLs)	N/A	→	→	→	→
Combined Filtrate Volume (mLs)	250	→	→	→	→
Final pH Reading	5.76	6.08	6.19	10.98	5.78
Spike Source ID # / Volume Added (mLs)	N/A	→	→	→	→
Filtrate Preserved	Yes m	→	→	→	→
ZHE: Initial psi / Final psi	N/A	→	→	→	→

Comments:
Extraction Vessel Codes: T = Teflon ZHE = Zero Headspace VOA's HDPE = High Density Polyethylene (Lot # 02290015) Inorganics/Metals Metals
Date: 7/13/18

Group Number: T325 Extr. Start Date 7/13/18 Time 1321 Temp: Uncorrected 22 Corrected 22 °C Filtration Start Time: 1320
Extr. End Date 7/14/18 Time 0721 Temp: Uncorrected 22 Corrected 22 °C Filtration End Time: 1400

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2417 Bond Street, University Park, IL 604[illegible]
Phone: 708.534.5200 Fax: 708.534.5[illegible]

500-148287 COC

Report To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-148287
Chain of Custody Number:
Page ____ of ____
Temperature °C of Cooler: 0.4→1.9

Client: Tyco Fire Protection
Client Project #:
Project Name: Sediment Sampling
Project Location/State: Marinette, WI
Lab Project #:
Sampler: D. Walter / J. Danko
Lab PM:

Preservative: 8
Parameter: Total As

Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Total As	Comments
1		SD012-0.64/1.04-2018	7/10/18	945	1	SE	X	Hold
2		SD015-0.0/0.09-2018	7/10/18	1020	1	SE	X	
3		SD015-0.0/0.09-2018/D	7/10/18	1020	1	SE	X	Hold
4		SD015-0.09/0.68-2018	7/10/18	1020	1	SE	X	Hold
5		SD010-0.0/0.4-2018	7/10/18	1123	1	SE	X	
6		SD010-0.4/0.9-2018	7/10/18	1123	1	SE	X	Hold
7		SD013-0.0/0.05-2018	7/10/18	1211	1	SE	X	
8		SD013-0.5/1.0-2018	7/10/18	1213	1	SE	X	Hold
9		SD013-1.0/1.5-2018	7/10/18	1214	1	SE	X	Hold
10		SD013-1.5/2.0-2018	7/10/18	1215	1	SE	X	Hold

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days ______ Other
Requested Due Date ________

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [X] Archive for 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
D. W. Walter	JTC&T3S	7/11/18	1324	Shaun Scott	TA-CHI	7/12/18	0915

Lab Courier:
Shipped: FedEx
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

 TAL-4124-500 (1209)

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2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-148287

Chain of Custody Number:

Page ____ of ____

Temperature °C of Cooler:

Client: Tyco Fire Protection
Client Project #:
Project Name: Sediment Sampling
Project Location/State: Marinette, WI
Lab Project #:
Sampler: D. Walter / J. Danko
Lab PM:

Preservative: 8
Parameter: Total HgS

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Total HgS	Comments
11		SD013-2.0/2.3-2018	7/10/18	1216	1	SE	X	Hold
12		SD004-0.0/0.1-2018	7/10/18	1303	1	SE	X	
13		SD004-0.0/0.1-2018/D	7/10/18	1303	1	SE	X	
14		SD004-0.1/0.65-2018	7/10/18	1305	1	SE	X	Hold
15	X	SD009-0.0/0.3-2018	7/10/18	1334	3	SE	X	
16		SD009-0.0/0.3-2018/D	7/10/18	1334	1	SE	X	Hold
17		SD009-0.3/0.8-2018	7/10/18	1337	1	SE	X	Hold
18		SD009-0.8/1.3-2018	7/10/18	1339	1	SE	X	Hold
19		SD009-1.3/1.8-2018	7/10/18	1341	1	SE	X	Hold
20		SD009-1.8/2.3-2018	7/10/18	1342	1	SE	X	Hold

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days ___ Other
Requested Due Date ____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [X] Archive for 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	JACOBS	7/11/18	1324	[signature]	TA-CHI	7/12/18	0915
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:
Shipped: Fed X
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-148287

Chain of Custody Number:

Page ____ of ____

Temperature °C of Cooler:

Client: Tyco Fire Protection
Client Project #:
Project Name: Sediment Sampling
Project Location/State: Marinette, WI
Lab Project #:
Sampler: D. Walter / J. Danko
Lab PM:

Preservative:
Parameter: Total As

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Total As									Comments
21		SD006-0.0/0.5-2018	7/10/18	1448	1	SE	X									
22		SD006-0.0/0.5-2018/D	7/10/18	1448	1	SE	X									Hold
23		SD007B-0.0/0.5-2018	7/10/18	1445	1	SE	X									
24		SD005B-0.0/0.5-2018	7/10/18	1618	1	SE	X									
25		SD005B-0.5/1.0-2018	7/10/18	1619	1	SE	X									
26		SD001B-0.0/0.5-2018	7/10/18	1732	1	SE	X									Hold
27		SD001B-0.5/1.0-2018	7/10/18	1736	1	SE	X									Hold
28		SD001B-1.0/1.55-2018	7/10/18	1734	1	SE	X									Hold
29		SD002-0.4/0.8-2018	7/10/18	1809	1	SE	X									Hold
30		SD002-0.8/1.25-2018	7/10/18	1811	1	SE	X									Hold

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days ______ Other
Requested Due Date ______

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [X] Archive for 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
D. W. Walter	JACOBS	7/11/18	1324	[signature]	TA-CHI	7/12/18	0915

Lab Courier:
Shipped: Fed Ex
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

IAL-4124-500 (1209)

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Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

Bill To (optional)
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-148287

Chain of Custody Number:

Page ____ of ____

Temperature °C of Cooler:

Client: Tyco Fire Protection

Client Project #:

Project Name: Sediment Sampling

Project Location/State: Marinette, WI

Lab Project #:

Sampler: D. Walter/J. Danko

Lab PM:

Preservative: 8

Parameter: Total Fs

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Total Fs	Comments
31		SD002-0.8/1.25-2018/D	7/10/18	1811	1	SE	X	Hold
32	X	SD003-0.4/0.9-2018	7/10/18	1843	3	SE	X	Hold
33		SD003-0.9/1.35-2018	7/10/18	1845	1	SE	X	Hold
34		SD011-0.0/0.5-2018	7/9/18	1418	1	SE	X	
35	X	SD012-0.0/0.14-2018	7/10/18	940	3	SE	X	
36		SD012-0.14/0.64-2018	7/10/18	942	1	SE	X	Hold
37		SD014-0.0/0.3-2018	7/9/18	1702	1	SE	X	
38		SD014-0.3/0.8-2018	7/9/18	1701	1	SE	X	Hold
39		SD014-0.8/1.2-2018	7/9/18	1659	1	SE	X	Hold
40		SD014-1.2/1.7-2018	7/9/18	1656	1	SE	X	Hold

Turnaround Time Required (Business Days)
__ 1 Day __ 2 Days __ 5 Days __ 7 Days X 10 Days __ 15 Days __ Other
Requested Due Date ____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [X] Archive for 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
A. Whrell	Jacobs	7/11/18	1324	[signature]	TA-CHI	7/12/18	0915

Lab Courier:
Shipped: Fed X
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (0209)

TestAmerica

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Chain of Custody Record

Lab Job #: 500-148287

Chain of Custody Number:

Page _____ of _____

Temperature °C of Cooler:

(optional)

Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Client: Tyco Fire Protection
Client Project #:
Project Name: Sediment Sampling
Project Location/State: Marinette, WI
Lab Project #:
Sampler: D. Walter / S Daake
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative: 8 / Parameter: Total Hg	Preservative: 3 / Parameter: Total PCBs	Comments
41		SD016-0.0/0.12-2018	7/9/18	1725	1	SE	X		
42		SD016-0.0/0.12-2018D	7/9/18	1725	1	SE	X		
43		SD016-0.12/0.7-2018	7/9/18	1720	1	SE	X		Hold
44		SD016-0.7/1.3-2018	7/9/18	1726	1	SE	X		Hold
45		SD017-0.0/0.5-2018	7/9/18	1107	1	SE	X		
46		SD017-0.5/0.98-2018	7/9/18	1107	1	SE	X		~~Hold~~
47		SD017-0.98/1.48-2018	7/9/18	1058	1	SE	X		Hold
48		SD018-0.0/0.5-2018	7/9/18	1228	1	SE	X		
49		EB001-2018	7/9/18	1746	1	W		X	
50		EB002-2018	7/10/18	1900	1	W		X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [X] Archive for 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
A. Walter	TACOBS	7/11/18	1324	[illegible]	TA-Ott	7/12/18	0915
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:
Shipped: Fed X
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TestAmerica

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Chain of Custody Record

Lab Job #: 500-148287

Chain of Custody Number:

Page _____ of _____

Temperature °C of Cooler:

(optional)

Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Client: Tyco Fire Protection
Client Project #:
Project Name: Sediment Sampling
Project Location/State: Marinette, WI
Lab Project #:
Sampler: D. Walter / J. Danko
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative								Comments
							8	3							
							Parameter								
							Total As	Total As	TCLP As						
51		SD008-0.0/0.2-2018	7/10/18	836	1	SE	X								
52		SD008-0.2/0.7-2018	7/10/18	837	1	SE	X								Hold
53		SD008-0.7/1.2-2018	7/10/18	839	1	SE	X								Hold
54		SD008-0.7/1.2-2018/D	7/10/18	839	1	SE	X								Hold
55		FB001-2018	7/10/18	1905	1	W		X							
56		WC001	7/11/18	1216	2	SE			X						
57		WC002	7/11/18	1215	2	SE			X						

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [X] Archive for 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
D. Walter	JACOBS	7/11/18	1324	Shannon Scott	TA-CHI	7/12/18	0915

Lab Courier
Shipped Fed Ex
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

Login Sample Receipt Checklist

Client: Tyco Fire Protection Products

Job Number: 500-148287-1

Login Number: 148287
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	